## AJAX



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Version 1.1

SDS Number: 660000000222

Revision Date: 2015/12/15

#### **SECTION 1. IDENTIFICATION**

Product name

: AJAX CLEANER POWDER-OXYGEN BLEACH

Product code

: 200000017621

Material

: B01809190000

#### Manufacturer or supplier's details

Company

: Colgate-Palmolive Co

300 Park Avenue New York, NY 10022

Telephone

: US: Consumer Affairs - 1-800-468-6502

**Emergency telephone** 

number

For emergencies involving spill, leak, fire, exposure or acci-

dent call CHEMTREC (24hr) at (800) 424-9300 or

(703) 527-3887.

Medical Emergency

(24HR):

For MEDICAL EMERGENCIES involving this product call:

(888) 489-3861

Recommended use of the chemical and restrictions on use

Recommended use

: A formulated multi-purpose cleaner

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS Label element**

Not a hazardous substance or mixture.

#### Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Chemical Name	CAS-No.	Concentration (% w/w)
LIMESTONE	1317-65-3	>= 90 - <= 100
SODIUM CARBONATE	497-19-8	>= 5 - < 10
SODIUM DODECYL BENZENE SULFONATE	25155-30-0	>= 1 - < 5

#### **SECTION 4. FIRST AID MEASURES**

General advice

No hazarde which require enerial first aid measures



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If inhaled

: Move to fresh air in case of accidental inhalation of dust or

fumes from overheating or combustion. If symptoms persist, call a physician.

In case of skin contact

: Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

In case of eye contact

: Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eve.

Keep eye wide open while rinsing.

If swallowed

: Clean mouth with water and drink afterwards plenty of water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

: None known.

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Hazardous combustion prod-

ucts

: No hazardous combustion products are known

Further information

: Standard procedure for chemical fires.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Avoid dust formation.

tive equipment and emergency procedures

Environmental precautions

: No special environmental precautions required.

Methods and materials for containment and cleaning up

Neutralise with acid. Sweep up and shovel.

Keep in suitable, closed containers for disposal.

#### SECTION 7. HANDLING AND STORAGE

Advice on protection against

: Avoid dust formation. Provide appropriate exhaust ventilation



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fire and explosion

at places where dust is formed.

Advice on safe handling

: For personal protection see section 8. No special handling advice required.

Conditions for safe storage

: Keep container tightly closed in a dry and well-ventilated

place.

Materials to avoid

: No special restrictions on storage with other products.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
LIMESTONE	1317-65-3	TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respir- able dust fraction)	5 mg/m3	OSHA P0

#### Hazardous components without workplace control parameters

Components	CAS-No.
SODIUM CARBONATE	497-19-8
SODIUM DODECYL	25155-30-0
BENZENE SULFONATE	

#### Personal protective equipment

Respiratory protection

: No personal respiratory protective equipment normally re-

quired.

Hand protection

Remarks

: For prolonged or repeated contact use protective gloves.

Eye protection

: Safety glasses

Skin and body protection

: Protective suit

Hygiene measures

: General industrial hygiene practice.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

: powder



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Colour

: off-white

pH

: 10.4

Flash point

: No data available

Density

: 1.04 g/cm3

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity

: Stable under recommended storage conditions.

Chemical stability

: No decomposition if stored and applied as directed.

Possibility of hazardous reac-

: No hazards to be specially mentioned.

Conditions to avoid

: No data available

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Acute dermal toxicity

: Acute toxicity estimate: 2,011 mg/kg

Method: Calculation method

Components:

LIMESTONE:

Acute oral toxicity

: LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity

: LC50: > 5 mg/l

Exposure time: 4 h

Method: Calculation method

Acute dermal toxicity

: LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

SODIUM CARBONATE:

Acute oral toxicity

: LD50 (Rat): 2,800 mg/kg

Acute inhalation toxicity Exposure time: 2 h

: LC50 (Rabbit): 2.3 mg/l



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Test atmosphere: No information available.

Method: No information available.

Acute dermal toxicity

: LD50 (Rabbit): > 2,000 mg/kg

Method: No information available.

SODIUM DODECYL BENZENE SULFONATE:

Acute oral toxicity

: LD50 (Rat): 1,080 - 1,980 mg/kg

Method: No information available.

Acute inhalation toxicity

: Remarks: No data available

Acute dermal toxicity

: LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

#### Skin corrosion/irritation

Not classified based on available information.

#### Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

#### Components:

#### LIMESTONE:

Result: No skin irritation

#### **SODIUM CARBONATE:**

Remarks: No data available

#### SODIUM DODECYL BENZENE SULFONATE:

Result: Severe skin irritation

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

#### Components:

#### LIMESTONE:

Result: No eye irritation

#### SODIUM CARBONATE:

Result: Irritation to eyes, reversing within 21 days

#### SODIUM DODECYL BENZENE SULFONATE:

Result: Irritation to eyes, reversing within 21 days



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#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Product:

Remarks: No data available

#### Components:

#### LIMESTONE:

Exposure routes: Inhalation

Result: Does not cause respiratory sensitisation.

Exposure routes: Dermal

Result: Does not cause skin sensitisation.

#### SODIUM CARBONATE:

Exposure routes: Inhalation Remarks: No data available

Exposure routes: Dermal Remarks: No data available

#### SODIUM DODECYL BENZENE SULFONATE:

Exposure routes: Inhalation Remarks: No data available

Exposure routes: Dermal

Result: Does not cause skin sensitisation.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**OSHA** 

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.



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#### STOT - repeated exposure

Not classified based on available information.

#### Aspiration toxicity

Not classified based on available information.

#### Further information

#### Product:

Remarks: This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 3 of the SDS.

#### SECTION 12. ECOLOGICAL INFORMATION

The product has not been tested as a whole for environmental toxicity. However, environmental information on the ingredients in this product have been reviewed by the Environmental, Health and Safety group of Colgate-Palmolive and determined to have an acceptable environmental profile. This evaluation is based on available information on individual ingredients, interactions of ingredients, and similar ingredients. Biodegradability claims are supported by data on ingredients (i.e., surfactants are biodegradable) or testing conducted on the final product (i.e., This product is biodegradable).

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### Disposal methods

Waste from residues

: Offer surplus and non-recyclable solutions to a licensed dis-

posal company.

Contaminated packaging

: Empty remaining contents.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT

Not regulated.

TDG

Not regulated.

IATA

2,50

....

Not regulated.

**IMDG** 

Not regulated.

ADR

NOT REGULATED



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#### International Regulation

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

**National Regulations** 

#### SECTION 15. REGULATORY INFORMATION

#### EPCRA - Emergency Planning and Community Right-to-Know Act

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Component RQ (lbs)
SODIUM DODECYL BENZENE SULFONATE	25155-30-0	1000	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
SULFUR DIOXIDE	7446-09-5	500	*

<sup>\*:</sup> Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards

: Acute Health Hazard

**SARA 302** 

: No chemicals in this material are subject to the reporting re-

guirements of SARA Title III, Section 302.

**SARA 313** 

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis)

reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:



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SODIUM DODECYL

25155-30-0

BENZENE

SULFONATE

Sulfuric Acid

SULFURIC ACID

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

SODIUM DODECYL

25155-30-0

BENZENE

SULFONATE

Sulfuric Acid

SULFURIC ACID

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### **US State Regulations**

#### Massachusetts Right To Know

LIMESTONE	1317-65-3	90 - 100 %
SODIUM DODECYL BENZENE	25155-30-0	1 - 5 %
SULFONATE		
Sulfuric Acid	SULFURIC	0 - 0.1 %
	ACID	
SULFUR DIOXIDE	7446-09-5	0 - 0.1 %
Right To Know		

#### Pennsylvania Right To Know

The state of the s		
LIMESTONE	1317-65-3	90 - 100 %
SODIUM CARBONATE	497-19-8	5 - 10 %
SODIUM DODECYL BENZENE	25155-30-0	1 - 5 %
SULFONATE		
Sulfuric Acid	SULFURIC	0 - 0.1 %
	ACID	
SULFUR DIOXIDE	7446-09-5	0 - 0.1 %
SODIUM SULFATE	7757-82-6	0 - 0.1 %

#### **New Jersey Right To Know**

LIMESTONE	1317-65-3	90 - 100 %
SODIUM CARBONATE	497-19-8	5 - 10 %
SODIUM DODECYL BENZENE	25155-30-0	1 - 5 %

SULFONATE

#### The components of this product are reported in the following inventories:

**TSCA** 

: On TSCA Inventory

#### **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.



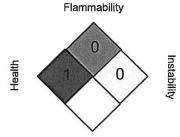
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(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods

#### **Further information**

#### NFPA:



Special hazard.

#### HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

<sup>0 =</sup> not significant, 1 =Slight,

<sup>2 =</sup> Moderate, 3 = High

<sup>4 =</sup> Extreme, \* = Chronic



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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN

## Assurance



#### SAFETY DATA SHEET

#### 1. Identification

Product identifier ASSURANCE HD SPRAY & WIPE CLEANER

Other means of identification

SDS number 584N-105A Product code HIL00801

Recommended use Multipurpose Spray and Wipe

Recommended restrictions For Labeled Use Only

DO NOT USE ON GLASS.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name HILLYARD INDUSTRIES
Address 302 North Fourth St.

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

#### 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Skin corrosion/irritation

Category 1

Serious eye damage/eye irritation

Category 1

**Environmental hazards** 

OSHA defined hazards

Not classified.

Not classified.

Label elements



Signal word

Danger

Hazard statement

Causes severe skin burns and eye damage. Causes serious eye damage.

Precautionary statement

Prevention

Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison

center/doctor. Wash contaminated clothing before reuse.

Storage

Store locked up.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local

requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

#### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Sodium Carbonate		497-19-8	3 - < 5
Sodium metasilicate		6834-92-0	3 - < 5
*Complex Surfactant Blend		Proprietary	2.6
Other components below reportab	le levels		80 - < 90

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting, If Ingestion

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

Symptoms may be delayed.

blindness could result.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

During fire, gases hazardous to health may be formed.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This product is miscible in water. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all

environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged

exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid

release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store away from incompatible materials (see

Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Avoid contact with eyes. Chemical safety goggles when working with concentrate.

Skin protection

**Hand protection** Use protective gloves when dealing with the concentrate.

Other None normally required. If unable to avoid prolonged or repeated contact with skin, wear

impervious clothing.

Respiratory protection Not normally required with adequate ventilation. If engineering controls do not maintain airborne

> 200.0 °F (> 93.3 °C) Tag Closed Cup None to boiling

concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be

worn.

Thermal hazards

None known.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

#### 9. Physical and chemical properties

Appearance Clear, orange liquid

Physical state

Liquid.

Form

Liquid.

Color

Orange.

Odor

Lemon odor

Odor threshold

Not available

pH
Melting point/freezing point

12.5 - 13.5

Initial boiling point and boiling

Not available

range

211 °F (99.44 °C)

Flash point

< 1 (ethyl ether = 1)

Evaporation rate Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

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Explosive limit - upper (%) Not available.

Vapor pressure 17.67 mm Hg

Vapor density 0.628 Air =1

Relative density 1.087 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient

(n-octanol/water)

Not available

Auto-ignition temperature

Not available

Decomposition temperature

Not available

Viscosity

Not available

Other information

Density

9.05 lb/gal

Explosive properties

Not explosive. Not oxidizing.

Oxidizing properties Percent volatile

87.5 - 88.5 %

VOC

0%

#### 10. Stability and reactivity

Reactivity

Reacts violently with strong acids. This product may react with oxidizing agents.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials. Do not mix with other

chemicals.

Incompatible materials

Acids. Oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation

May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact

Causes severe skin burns.

Eye contact Ingestion

Causes serious eye damage. Causes digestive tract burns.

Symptoms related to the

physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

#### Information on toxicological effects

**Acute toxicity** 

Not known.

Components

Species

#### Sodium Carbonate (CAS 497-19-8)

**Acute** 

Inhalation

LC50

Rat

2.3 mg/l, 2 Hours

**Test Results** 

Oral

LD50

Rat

4090 mg/kg

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye

Causes serious eye damage.

irritation

#### Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** 

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product Species

Test Results

ASSURANCE HD SPRAY & WIPE CLEANER

Aquatic

Crustacea

EC50

Daphnia

3722.9543 mg/l, 48 hours estimated

Acute

Fish

LC50

Fish

2424 mg/l, 96 hours estimated

Persistence and degradability

Bioaccumulative potential

No data is available on the degradability of this product.

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chamical or used container. Dispose of contents/container in accordance with

with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Buyer assumes all risk and liability associated with

disposal of this product (original concentration or dilution) in violation of applicable law.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment requirements.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

#### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Skin corrosion or irritation

categories

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material

is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada

Domestic Substances List (DSL)

Yes

Canada

Non-Domestic Substances List (NDSL)

No

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date

03-05-2015

Revision date

09-28-2018

Version #

03

HMIS® ratings

Health: 3

Flammability: 0 Physical hazard: 0

Material name: ASSURANCE HD SPRAY & WIPE CLEANER

HIL00801 Version #: 03 Revision date: 09-28-2018 Issue date: 03-05-2015

#### Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

**Revision information** 

This document has undergone significant changes and should be reviewed in its entirety.

# Baseboard Stripper



Revision Date: 11/16/2020

### SAFETY DATA SHEET

#### 1. Identification

Product identifier: BASEBOARD STRIPPER - HIL0113355

Other means of identification

SDS number:

RE1000025355

Recommended restrictions
Recommended use: Cleaner
Restrictions on use: Not known.

**Manufacturer Information** 

Manufacturer

Company Name:

HILLYARD INC

Address:

302 North 4th Street St. Joseph,MO 64501

Telephone:

1-816-383-8285

Emergency telephone number: 1-866-836-8855

#### 2. Hazard(s) identification

#### **Hazard Classification**

#### Physical Hazards

Flammable aerosol

Category 1

Gases under pressure

Liquefied gas

#### **Health Hazards**

Skin Corrosion/Irritation

Category 2

Serious Eye Damage/Eye Irritation

Category 2A

#### **Label Elements**

#### **Hazard Symbol:**



Signal Word:

Danger

**Hazard Statement:** 

Extremely flammable aerosol.

Causes skin irritation.

Causes serious eye irritation.

Contains gas under pressure; may explode if heated.



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Precautionary Statements

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face

protection.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water If skin irritation occurs: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing.

Storage:

Protect from sunlight. Do not expose to temperatures exceeding

50°C/122°F.

Hazard(s) not otherwise classified (HNOC):

None.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Ethanol, 2-butoxy-	111-76-2	10 - <25%
Butane	106-97-8	5 - <10%
Propane	74-98-6	1 - <5%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Ingestion:

Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Inhalation:

Move to fresh air.

**Skin Contact:** 

Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Wash contaminated clothing

before reuse. Get medical attention.

Eye contact:

Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms:

No data available.

Hazards:

No data available.

Indication of immediate medical attention and special treatment needed

Treatment:

No data available.



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#### 5. Fire-fighting measures

General Fire Hazards:

Use water spray to keep fire-exposed containers cool, Fight fire from a protected location. Move containers from fire area if you can do so without risk.

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical:

Vapors may travel considerable distance to a source of ignition and flash

back.

#### Special protective equipment and precautions for firefighters

Special fire fighting procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

**Notification Procedures:** 

Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

**Environmental Precautions:** 

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

#### 7. Handling and storage

Precautions for safe handling:

Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with skin.

Conditions for safe storage, including any incompatibilities:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 1



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#### 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure	Limit Values	Source
Ethanol, 2-butoxy-	TWA	20 ppm		US. ACGIH Threshold Limit Values, as amended (2008)
	REL	5 ppm	24 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
4	PEL	50 ppm	240 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	TWA	25 ppm	120 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Butane	REL	800 ppm	1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
0	STEL	1,000 ppm		US. ACGIH Threshold Limit Values, as amended (03 2018)
	TWA	800 ppm	1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Propane	REL	1,000 ppm	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	PEL	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	TWA	1,000 ppm	1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Sodium hydroxide (Na(OH))	Ceil_Time		2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
*	PEL		2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	Ceiling		2 mg/m3	US. ACGIH Threshold Limit Values, as amended (2008)
	Ceiling		2 mg/m3	US, OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Ammonium hydroxide ((NH4)(OH))	STEL	35 ppm		US. ACGIH Threshold Limit Values, as amended (2008)
	TWA	25 ppm		US. ACGIH Threshold Limit Values, as amended (2008)
	STEL	35 ppm	27 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	STEL	35 ppm	27 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	REL	25 ppm	18 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	PEL	50 ppm	35 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)

**Biological Limit Values** 

Chemical Identity	Exposure Limit Values	Source
Ethanol, 2-butoxy- (Butoxyacetic acid (BAA), with hydrolysis: Sampling time: End of shift.)	200 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)

### Appropriate Engineering Controls

No data available.

#### Individual protection measures, such as personal protective equipment

#### General information:

Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Evelface protection:

Mear eafety alaeses with side shields (or anales)



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Skin Protection

**Hand Protection:** 

No data available.

Other:

Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health

and safety professional or manufacturer for specific information.

Respiratory Protection:

In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures:

Observe good industrial hygiene practices. Avoid contact with eyes. When using do not smoke. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after

handling the product.

#### 9. Physical and chemical properties

**Appearance** 

Physical state:

liquid

Form:

Spray Aerosol

Color:

No data available. No data available.

Odor: Odor threshold:

No data available.

pH:

No data available.

Melting point/freezing point:

Flammability (solid, gas):

No data available.

Initial boiling point and boiling range: Flash Point:

No data available. Estimated -104.44 °C

\_\_\_\_\_

No data available.

Evaporation rate:

No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Estimated 9.5 %(V)

Flammability limit - lower (%):

Estimated 1.9 %(V)

Explosive limit - upper (%):

No data available.

Explosive limit - lower (%):

No data available.

Vapor pressure:

2,757 - 4,136 hPa (20 °C)

Vapor density:

No data available.

Density:

No data available.

Relative density:

No data available.

Solubility(ies)

Solubility in water:

No data available.

Solubility (other):

No data available.

Partition coefficient (n-octanol/water):

No data available.

Auto-ignition temperature:

No data available.

Decomposition temperature:

No data available.

Viscosity:

No data available.

#### 10. Stability and reactivity

Reactivity:

No data available.

**Chemical Stability:** 

Material is stable under normal conditions.



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Possibility of hazardous

reactions:

No data available.

Conditions to avoid:

Avoid heat or contamination.

Incompatible Materials:

No data available.

**Hazardous Decomposition** 

Products:

No data available.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation:

No data available.

Skin Contact:

No data available.

Eye contact:

No data available.

Ingestion:

No data available.

#### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:

No data available.

**Skin Contact:** 

No data available.

Eye contact:

No data available.

Ingestion:

No data available.

#### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral

Product:

ATEmix: 7,591.3 mg/kg

Dermal

Product:

ATEmix: 4,608.7 mg/kg

Inhalation

**Product:** 

ATEmix: 86.96 mg/l ATEmix: 21.74 mg/l

Repeated dose toxicity

Product:

No data available.

Specified substance(s):

Ethanol, 2-butoxy-

NOAEL (Rat(Female), Inhalation, 2 yr): < 31 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Female), Oral, 90 d): < 82 mg/kg Oral Experimental result, Key

stuay

NOAEL (Rabbit(Female, Male), Dermal, 90 d): > 150 mg/kg Dermal

Experimental result, Key study

Butane

LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation

Experimental result. Kev study



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Propane

NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation

Experimental result, Key study

Skin Corrosion/Irritation

**Product:** 

No data available.

Specified substance(s):

Ethanol, 2-butoxy-

in vivo (Rabbit): Irritating Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product:

No data available.

Specified substance(s):

Ethanol, 2-butoxy-

Rabbit, 24 - 72 hrs: Irritating

Respiratory or Skin Sensitization

Product:

No data available.

Specified substance(s):

Ethanol, 2-butoxy-

Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product:

No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product:

No data available.

In vivo

Product:

No data available.

Reproductive toxicity

Product:

No data available.

Specific Target Organ Toxicity - Single Exposure

Product:

No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:

No data available.

**Aspiration Hazard** 

Product:

No data available.

Other effects:

No data available.



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#### 12. Ecological information

#### **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

Fish

**Product:** 

No data available.

Specified substance(s):

Ethanol, 2-butoxy-

LC 50 (Oncorhynchus mykiss, 96 h): 1,474 mg/l Experimental result, Key

study

Butane

LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Propane

LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

**Aquatic Invertebrates** 

Product:

No data available.

Specified substance(s):

Ethanol, 2-butoxy-

EC 50 (Daphnia magna, 48 h): 1,550 mg/l Experimental result, Key study

Butane

LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study

#### Chronic hazards to the aquatic environment:

Fish

Product:

No data available.

Specified substance(s):

Ethanol, 2-butoxy-

NOAEL (Danio rerio): > 100 mg/l Experimental result, Key study

Aquatic Invertebrates

Product:

No data available.

Specified substance(s):

Ethanol, 2-butoxy-

EC 10 (Daphnia magna): 134 mg/l Experimental result, Key study EC 50 (Daphnia magna): 297 mg/l Experimental result, Key study

**Toxicity to Aquatic Plants** 

Product:

No data available.

#### Persistence and Degradability

Biodegradation

Product:

No data available.

Specified substance(s):

Ethanol, 2-butoxy-

90.4 % Detected in water. Experimental result, Key study

Butane

100 % (385.5 h) Detected in water. Experimental result, Key study

Propane

100 % (385.5 h) Detected in water. Experimental result, Key study

50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

**BOD/COD Ratio** 

Product:

No data available.



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Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

Product:

No data available.

Partition Coefficient n-octanol / water (log Kow)

Product:

No data available.

Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments

Ethanol, 2-butoxy-

No data available.

Butane Propane No data available. No data available.

Other adverse effects:

No data available.

13. Disposal considerations

Disposal instructions:

Wash before disposal. Dispose to controlled facilities.

**Contaminated Packaging:** 

No data available.

14. Transport information

DOT

UN Number:

UN 1950

UN Proper Shipping Name:

Aerosols, flammable

Transport Hazard Class(es)

Class:

2.1

Label(s): Packing Group:

-

Marine Pollutant:

No

Environmental Hazards:

No

Marine Pollutant

No

Special precautions for user:

Not regulated.

**IMDG** 

**UN Number:** 

UN 1950

**UN Proper Shipping Name:** 

Aerosols, flammable

Transport Hazard Class(es)

Class:

Label(s):

2

EmS No.:

\_

Packing Group:

100

Environmental Hazards:

No

Marine Pollutant

No

Special precautions for user:

Not regulated.

IATA

UN Number:

UN 1950

Proper Shipping Name:

Aerosols, flammable

Transport Hazard Class(es):

Class:

2.1

Label(s):

-

Packing Group:

-

Environmental Hazards:

No

Marine Pollutant

No

Special precautions for user:

Not regulated.



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#### 15. Regulatory information

#### **US Federal Regulations**

Restrictions on use: Not known.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Butane	lbs. 100
Propane	lbs. 100
Sodium hydroxide (Na(OH))	lbs. 1000
Ammonium hydroxide ((NH4)(OH))	lbs. 1000

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Fire Hazard

Immediate (Acute) Health Hazards

Flammable aerosol

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### **SARA 304 Emergency Release Notification**

Chemical Identity	Reportable quantity
Ethanol, 2-butoxy-	·
Butane	lbs. 100
Propane	lbs. 100
Sodium hydroxide (Na(OH))	lbs. 1000
Ammonium hydroxide ((NH4)(OH))	lbs. 1000

#### SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Ethanol, 2-butoxy-	10000 lbs
Butane	10000 lbs
Propane	10000 lbs
Oils, pine	10000 lbs
Sodium hydroxide (Na(OH))	10000 lbs
Ammonium hydroxide ((NH4)(OH))	10000 lbs

#### SARA 313 (TRI Reporting)

	Reporting threshold	Reporting threshold for
Chemical Identity	for other users	manufacturing and processing
Ethanol, 2-butoxy-	N230 lbs	N230 lbs.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

#### **US State Regulations**

#### **US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.



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#### US. New Jersey Worker and Community Right-to-Know Act

**Chemical Identity** 

Ethanol, 2-butoxy-

Butane

Propane

#### US. Massachusetts RTK - Substance List

**Chemical Identity** 

Glycine, N,N-bis(carboxymethyl)-, sodium salt (1:3)

#### US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Ethanol, 2-butoxy-

Butane

Propane

#### US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

#### International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### Rotterdam convention

Not applicable

#### Kyoto protocol

Not applicable

**Inventory Status:** 

EINECS, ELINCS or NLP:

Japan (ENCS) List:

Canada NDSL Inventory:

Japan ISHL Listing:

Japan Pharmacopoeia Listing:

Mexico INSQ:

Ontario Inventory:

Taiwan Chemical Substance Inventory:

Australia AICS:

Canada DSL Inventory List:

Philippines PICCS:

US TSCA Inventory:

New Zealand Inventory of Chemicals:

China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI):

Not in compliance with the inventory.

On or in compliance with the inventory



Revision Date: 11/16/2020

#### 16.Other information, including date of preparation or last revision

**Issue Date:** 

11/16/2020

**Revision Information:** 

No data available.

Version #:

1.1

**Further Information:** 

No data available.

Disclaimer:

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

# Baseboard Stripper Gel



#### SAFETY DATA SHEET

#### 1. Identification

Product identifier

**BASEBOARD STRIPPER GEL** 

Other means of identification

SDS number

519N-78A

Product code

HIL01022

Recommended use

Stripper

Recommended restrictions

Do Not Use on Wood.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Manufacturer

Company name

HILLYARD INDUSTRIES

Address

302 North Fourth St. St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail Emergency telephone # regulatoryaffairs@hillyard.com

(800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure,

or accident involving chemicals.)

#### 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Acute toxicity, oral

Category 5

Skin corrosion/irritation

Category 1

Serious eye damage/eye irritation

Category 1

**Environmental hazards** 

OSHA defined hazards

Not classified.

Not classified.

Label elements



Signal word

Danger

Hazard statement

May be harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye

damage.

Precautionary statement

Prevention

Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before

reuse.

Storage

Store locked up.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local

requirements.

Hazard(s) not otherwise classified (HNOC)

None known.

Material name: BASEBOARD STRIPPER GEL
HIL01022 Version #: 01 Issue date: 02-21-2015

Supplemental information

Use With Adequate Ventilation. Avoid breathing vapors or spray mist. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Do not get in eyes, on skin, or on clothing. Keep container closed when not in use.

#### 3. Composition/information on ingredients

#### **Mixtures**

Ingestion

Chemical name	Common name and synonyms	CAS number	%
Ethanol, 2-amino-		141-43-5	5 - < 10
Benzyl Alcohol		100-51-6	1-<3
Ethylene Glycol Monophenyl Ether		122-99-6	1-<3
Other components below reportable level	S		80 - < 90

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

blindness could result. Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation.

Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters During fire, gases hazardous to health may be formed.

Move containers from fire area if you can do so without risk.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Fire fighting equipment/instructions

Specific methods

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

## Occupational exposure limits

Components	Туре	Value	
Ethanol, 2-amino- (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
US. ACGIH Threshold Lir	mit Values		
Components	Туре	Value	
Ethanol, 2-amino- (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
US. NIOSH: Pocket Guide	e to Chemical Hazards		
Components	Туре	Value	
Ethanol, 2-amino- (CAS 141-43-5)	STEL	15 mg/m3	
		6 ppm	
	TWA	8 mg/m3	
		3 ppm	
US. AIHA Workplace Env	ironmental Exposure Level (WEEL) Guides		
Components	Туре	Value	*
Benzyl Alcohol (CAS 100-51-6)	TWA	44.2 mg/m3	
3 <b>4</b> 53		10 ppm	
ogical limit values	No biological exposure limits noted for the in	gredient(s).	
ronriate engineering	Good general ventilation (typically 10 air cha	unges per hour) should be used. Ventilation rate	

Bio

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Do not get in eyes. Wear eye/face protection. Chemical goggles are recommended.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

None known.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash

work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

Appearance

Hazy, light amber liquid

Physical state

Liquid.

Form

Liquid.

Color

Light Amber

Odor

Non-objectionable

Odor threshold

Not available

pH

11 - 12

Melting point/freezing point

Not applicable / Not available

Initial boiling point and boiling

218 °F (103.33 °C)

range

Flash point

> 218.0 °F (> 103.3 °C) Tag Closed Cup None to boiling

**Evaporation rate** 

< 1 ethyl ether=1

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Explosive limit - upper (%) Not available. Not available.

Vapor pressure

17.1 mm Hg

Vapor density

 $0.92 \, Air = 1$ 

Relative density

1.01 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient

Not available

(n-octanol/water)

Auto-ignition temperature

Not available

**Decomposition temperature** 

Not available

Viscosity

Not available

Other information

Density

8.40 lb/gal

Percent volatile

97.5 - 99.5 %

VOC (Weight %)

12 %

## 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid

Contact with incompatible materials.

Incompatible materials

Strong acids. Strong oxidizing agents.

Hazardous decomposition

No hazardous decomposition products are known.

products

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation

May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact

Causes severe skin burns.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

Eye contact

Causes serious eye damage.

Ingestion

Causes digestive tract burns. May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity

May be harmful if swallowed.

Product	Species	Test Results
BASEBOARD STRIPPER		rest results
Acute	OLL	E V
Dermal	•	
LD50	Rabbit	64457.8086 mg/kg estimated
		12686.5674 ml/kg estimated
Inhalation		
LC100	Rat	8421.0527 mg/l, 8 Hours estimated
LC50	Rat	42105.2617 mg/l, 8 Hours estimated
Oral		
LD50	Mouse	49024.6211 mg/kg estimated
	Rabbit	81684.2109 mg/kg estimated
	Rat	47340.1445 mg/kg estimated
Components	Species	Test Results
Benzyl Alcohol (CAS 100-5	171	
Acute		
Dermal	a s	
LD50	Rabbit	2000 mg/kg
Inhalation		
LC100	Rat	200 - 300 mg/l, 8 Hours
LC50	Rat	1000 mg/l, 8 Hours
Oral		
LD50	Mouse	1580 mg/kg
	Rabbit	1940 mg/kg
	Rat	1230 - 3100 mg/kg
thanol, 2-amino- (CAS 14	1-43-5)	•
Acute	* .	
Dermal	₩ Wilker	a see a Xe
LD50	Rabbit	1025 mg/kg
Oral	Outro ata	000
LD50	Guinea pig	620 mg/kg
	Mouse	700 mg/kg
AV A MANA EMPLOY	Rat	10.2 g/kg
thylene Glycol Monopheny	yl Ether (CAS 122-99-6)	
Acute		
<i>Oral</i> LD50	Mouse	16500 mg/kg
LDSU		N=2 = X
	Rat	1260 mg/kg

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye

Causes serious eye damage.

irritation

Material name: BASEBOARD STRIPPER GEL
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Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Prolonged inhalation may be harmful.

Chronic effects

May be harmful if absorbed through skin. Prolonged inhalation may be harmful.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

## 12. Ecological information

**Ecotoxicity** 

Dundings

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	lest Results
BASEBOARD STRIPE	PER GEL		
Aquatic			
Crustacea	EC50	Daphnia	672.489 mg/l, 48 hours estimated
Fish	LC50	Fish	769.5762 mg/l, 96 hours estimated

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability

Bioaccumulative potential

No data is available on the degradability of this product.

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not contaminate ponds, waterways or ditches with chemical or used container. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal,

State, and local pretreatment requirements.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

## 14. Transport information

DOT

**UN number** 

UN1760

UN proper shipping name Transport hazard class(es) CORROSIVE LIQUID N.O.S. (MONOETHANOLAMINE)

Class

8

Subsidiary risk

Material name: BASEBOARD STRIPPER GEL HIL01022 Version #: 01 Issue date: 02-21-2015 Label(s)

CORROSIVE

Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Special provisions

B2, IB2, T11, TP2, TP27

Packaging exceptions Packaging non bulk Packaging bulk

154 202 242

**ERG** number

154

DOT



General information

PACKAGES 1 GALLON AND SMALLER ARE SHIPPED LIMITED QUANTITY OR ORM-D This material is regulated under IATA and IMDG regulations contact manufacturer for shipping instructions.

## 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

## SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

## US state regulations

## US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

## US. Massachusetts RTK - Substance List

Benzyl Alcohol (CAS 100-51-6)

Ethanol, 2-amino- (CAS 141-43-5)

## US. New Jersey Worker and Community Right-to-Know Act

Ethanol, 2-amino- (CAS 141-43-5)

## US. Pennsylvania Worker and Community Right-to-Know Law

Benzyl Alcohol (CAS 100-51-6) Ethanol, 2-amino- (CAS 141-43-5)

## US. Rhode Island RTK

Not regulated.

## **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date

02-21-2015

Version #

01

**HMIS®** ratings

Health: 3 Flammability: 0 Physical hazard: 0

**Disclaimer** 

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

# Comet – w/ Bleach



# SAFETY DATA SHEET

Issuing Date: 09-Jan-2015

Revision Date: 07-Apr-2015

Version 2

## 1. IDENTIFICATION

**Product Name** 

Comet® Cleaner with Bleach - Ready to Use

Product Code(s)

3-30

Product ID:

15154199\_PROF\_NG

**Product Type:** 

Finished Product - Professional Use Only

Recommended Use

Hard Surface Cleaner

Restrictions on Use

Do not mix with other cleaning products or chemicals as irritating fumes may be formed.

Manufacturer

Procter & Gamble Professional

2 P&G Plaza

Cincinnati, Ohio 45202

Procter & Gamble Inc. P.O. Box 355, Station A Toronto, ON M5W 1C5

1-800-332-7787

E-mail Address

pgsds.im@pg.com

**Emergency Telephone** 

Transportation (24 HR)

CHEMTREC - 1-800-424-9300 (U.S./ Canada) or 1-703-527-3887 Mexico toll free in country: 800-681-9531

## 2. HAZARD IDENTIFICATION

This product is classifed under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:.

**Hazard Category** 

Eye Damage / Irritation Corrosive to metals

Category 2B Category 1

Signal Word

WARNING

**Hazard Statements** 

Causes eye irritation May be corrosive to metals

Hazard pictograms



**Precautionary Statements -**

Prevention

Wash hands thoroughly after handling

Keep only in original container

Do not mix with other cleaning products or chemicals as irritating fumes may be formed

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**Precautionary Statements -**

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF SWALLOWED:

Drink 1 or 2 glasses of water

Absorb spillage to prevent material damage

Precautionary Statements -

Storage

Store in corrosive resistant container

**Precautionary Statements -**

Disposal

Dispose of contents/container in accordance with local regulation

Hazards not otherwise classified

(HNOC)

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
Sulfuric acid, monooctyl ester, sodium salt (1:1)		No	142-31-4	1 - 5
Sulfuric acid monododecyl ester sodium salt (1:1)	- ,	No	151-21-3	1 - 5
Sodium hypochlorite		No	7681-52-9	1 - 5

## 4. FIRST AID MEASURES

## First aid measures for different exposure routes

Eye contact

Rinse with plenty of water. Get medical attention immediately if irritation persists.

Skin contact

Rinse with plenty of water. Get medical attention if irritation develops and persists.

Ingestion

Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if

symptoms occur.

Inhalation

Move to fresh air. If symptoms persist, call a physician.

Most important symptoms/effects,

acute and delayed

None under normal use conditions.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media

None.

Special hazard

None known.

Special protective equipment for

fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

Revision Date: 07-Apr-2015

(approved or equivalent) and full protective gear.

Specific hazards arising from the

chemical

None.

## 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment. Do not get in eyes, on skin, or on clothing.

Advice for emergency responders

Use personal protective equipment as required.

## Methods and materials for containment and cleaning up

Methods for containment

Absorb with earth, sand or other non-combustible material and transfer to containers for

later disposal.

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

## 7. HANDLING AND STORAGE

## Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

## Conditions for safe storage, including any incompatibilities

**Storage Conditions** 

Keep containers tightly closed in a dry, cool and well-ventilated place. Store in corrosive

resistant container.

Incompatible products

Do not mix with other cleaning products or chemicals as irritating fumes may be formed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** 

No exposure limits noted for ingredient(s).

## Exposure controls

**Engineering Measures** 

Distribution, Workplace and Household Settings:

Ensure adequate ventilation

Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Where reasonably practicable this should be achieved by the use of local exhaust

ventilation and good general extraction

### Personal Protective Equipment

**Eye Protection** 

Distribution, Workplace and Household Settings:

No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

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Use appropriate eye protection

**Hand Protection** 

Distribution, Workplace and Household Settings:

No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

Protective gloves

Skin and Body Protection

Distribution, Workplace and Household Settings:

No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

Wear suitable protective clothing

**Respiratory Protection** 

Distribution, Workplace and Household Settings:

No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):

Note

In case of insufficient ventilation wear suitable respiratory equipment

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C

**Appearance** 

Odor

Odor threshold

Scented

Property

pH value

12.6 - 13.4

Melting/freezing point Boiling point/boiling range

Flash point Evaporation rate

Flammability (solid, gas)

Flammability Limits in Air

Upper flammability limit **Lower Flammability Limit** 

Vapor pressure Vapor density

Relative density Water solubility

Solubility in other solvents Partition coefficient: n-octanol/waterNo information available Autoignition temperature **Decomposition temperature** 

Viscosity of Product

liquid

clear

No information available

Values

No information available

No information available > 93.3 °C / > 200 °F No information available

No information available

No information available No information available No information available

No information available 1.045 100%

No information available

No information available No information available

No information available < 10 cps

Oxidizing properties

VOC Content (%)

These substances will accelerate burning when involved in a fire.

Products comply with US state and federal regulations for VOC content in consumer

products.

## 10. STABILITY AND REACTIVITY

Reactivity None under normal use conditions.

Stability Stable under normal conditions.

Hazardous polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** 

None under normal processing.

**Conditions to Avoid** 

None under normal processing.

Materials to avoid

Do not mix with other cleaning products or chemicals as irritating fumes may be formed.

Revision Date: 07-Apr-2015

Hazardous Decomposition Products None under normal use.

## 11. TOXICOLOGICAL INFORMATION

## Product Information

Information on likely routes of exposure

Inhalation

No known effect.

Skin contact

No known effect.

Ingestion

No known effect.

Ingestion Eye contact

Irritating to eyes.

No known effect.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity No known effect. Skin corrosion/irritation No known effect. Serious eye damage/eye irritation Irritating to eyes. Skin sensitization No known effect. Respiratory sensitization No known effect. Germ cell mutagenicity No known effect. Neurological Effects. No known effect. Reproductive toxicity No known effect. **Developmental toxicity** No known effect. Teratogenicity No known effect. STOT - single exposure No known effect. STOT - repeated exposure No known effect. **Target Organ Effects** No known effect. Aspiration hazard No known effect.

## Component Information

Carcinogenicity

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sulfuric acid monododecyl ester sodium salt (1:1)	151-21-3		> 500 mg/kg bw (Read across data C10-16ASO4, NH4; guideline: Standard Procedure #10; fixed dose procedure; rabbit; based on active ingredient)	9
Sodium hypochlorite	7681-52-9	626 mg/kg bw (Similar to OECD 401; standard acute method; rat)		> 10.5 mg/L air (Similar to OECD 403; rat; 1 h)

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Harmful to aquatic organisms.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility

No information available.

Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

## Waste treatment

Waste from Residues / Unused

**Products** 

Products covered by this MSDS, in their original form, when disposed as waste, are corrosive hazardous waste, D002, according to Federal RCRA regulations (40 CFR 261).

Revision Date: 07-Apr-2015

Disposal should be in accordance with local, state and federal regulations.

Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

California Hazardous Waste Codes 331

(non-household setting)

.

14. TRANSPORT INFORMATION

DOT

UN no

UN1760

**UN Proper shipping name** 

Corrosive liquids, n.o.s.

Description

UN1760, Corrosive liquid, n.o.s, (sodium hydroxide, sodium hypochlorite), 8,III, Ltd. Qty.

Hazard Class Packing Group 8 III

IMDG

**UN Number** 

UN1760

**UN Proper shipping name** 

Corrosive liquid, n.o.s.

Description

UN1760, Corrosive liquid, n.o.s, (sodium hydroxide, sodium hypochlorite), 8, III, MARINE

POLLUTANT, Ltd. Qty.

Transport hazard class(es)

**Packing Group** 

8 III

IATA

UN no

UN1760

**UN Proper shipping name** 

Description

Corrosive liquid, n.o.s.

**Hazard Class** 

akina Carra

**Packing Group** 

UN1760, Corrosive liquid, n.o.s, (sodium hydroxide, sodium hypochlorite), 8,III , Ltd. Qty.

III

## 15. REGULATORY INFORMATION

## U.S. Federal Regulations

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ
Sodium hypochlorite	7681-52-9	100 lb	-	
Sodium hydroxide	1310-73-2	1000 lb		

## Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

## Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Revision Date: 07-Apr-2015

Chemical Name	CAS-No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hypochlorite	7681-52-9	100 lb	-	20	X
Sodium hydroxide	1310-73-2	1000 lb			Х

## California Proposition 65

This product is not subject to warning labeling under California Proposition 65.

## U.S. State Regulations (RTK)

Chemical Name	CAS-No	New Jersey
Sodium hypochlorite	7681-52-9	X
Chemical Name	CAS-No	Massachusetts
Sodium hypochlorite	7681-52-9	X
Chemical Name	CAS-No	Pennsylvania
Sodium hypochlorite	7681-52-9	X

Chemical Name	CAS-No	Phodo Island
- Journal Hydroxido	1010102	•
Sodium hydroxide	1310-73-2	X
Social in hypochionic	1001-02-0	Λ

Chemical Name	CAS-No	Rhode Island
Sodium hypochlorite	7681-52-9	X

## International Inventories

## **United States**

All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

### Canada

This product is in compliance with CEPA for import by P&G.

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

**CEPA** - Canadian Environmental Protection Act

# 16. OTHER INFORMATION

HMIS Ratings
Health hazard 2
Flammability 1
Physical hazard 0

NFPA Ratings
Health hazard 2
Flammability 1
Instability 0

 Issuing Date:
 09-Jan-2015

 Revision Date:
 07-Apr-2015

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

Revision Date: 07-Apr-2015

End of SDS

# Defoamer II



# SAFETY DATA SHEET

## 1. Identification

**Product identifier DEFOAMER II** 

Other means of identification

585N-61B SDS number

Product code HIL00183 Recommended use Defoamer

For Labeled Use Only Recommended restrictions Manufacturer/Importer/Supplier/Distributor information

Manufacturer

HILLYARD INDUSTRIES Company name

Address 302 North Fourth St.

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

# 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Not classified.

**Environmental hazards** 

Not classified.

OSHA defined hazards

Not classified.

Label elements

Hazard symbol

None.

Signal word

None.

Hazard statement

The mixture does not meet the criteria for classification.

Precautionary statement

Prevention

Observe good industrial hygiene practices.

Response

Wash hands after handling.

Storage

Store away from incompatible materials.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

Material name: DEFOAMER II

None.

# 3. Composition/information on ingredients

## **Mixtures**

The manufacturer lists no ingredients as hazardous to health according to OSHA 29 CFR 1910.1200.

HIL00183 Version #: 03 Revision date: 03-06-2020 Issue date: 03-05-2015

## 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Eve contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur. Most important Direct contact with eyes may cause temporary irritation.

Treat symptomatically.

symptoms/effects, acute and delayed

Indication of immediate medical attention and special

treatment needed

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment

During fire, gases hazardous to health may be formed.

and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

## Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

## **Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

## Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

## Individual protection measures, such as personal protective equipment

Avoid contact with eyes. Where splashing of concentrate is a concern, use protective glasses with Eye/face protection

side shield

Material name: DEFOAMER II SDS US HIL00183 Version #: 03 Revision date: 03-06-2020 Issue date: 03-05-2015

Skin protection

Hand protection Not normally needed. For prolonged or repeated skin contact use suitable protective gloves.

None normally required. If unable to avoid prolonged or repeated contact with skin, wear Other

impervious clothing.

Not normally required with adequate ventilation. If engineering controls do not maintain airborne Respiratory protection

concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be

worn.

Thermal hazards None known.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

Appearance Opaque, white to off-white, slightly viscous liquid.

Physical state Liquid. Form Liquid.

Color White to Off-White Odor Non-objectionable

Odor threshold Not available

5.5 - 7.5 Concentrate

Melting point/freezing point Not applicable / Not available

Initial boiling point and boiling 206 °F (96.67 °C)

range

> 200.0 °F (> 93.3 °C) Tag Closed Cup Flash point

**Evaporation rate** < 1 Ethyl ether = 1 Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Vapor pressure 17.53 mm Hg Vapor density 0.622 Air = 1Relative density 0.999 at 77°F

Solubility(ies)

Solubility (water) 100 % Complete Partition coefficient Not available

(n-octanol/water)

Auto-ignition temperature Not available **Decomposition temperature** Not available Viscosity 600 - 1350 cP

Other information

8.32 lb/gal Density Not explosive. **Explosive properties** Oxidizing properties Not oxidizing. Percent volatile > 98 % VOC

## 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability

0.02 %

Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials. Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected.

Eve contact

Direct contact with eyes may cause temporary irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the

physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Product

**Species** 

**Test Results** 

**DEFOAMER II** 

Acute

Dermal

LD50

Rabbit

5.857e+006 mg/kg

Oral

LD50

Rat

57100 g/kg

Skin corrosion/irritation

Serious eye damage/eye

Prolonged skin contact may cause temporary irritation.

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization Germ cell mutagenicity This product is not expected to cause skin sensitization. No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Chronic effects

Prolonged inhalation may be harmful. Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product

**Species** 

**Test Results** 

**DEFOAMER II** 

Aquatic

Fish

LC50

Fish

2565.6912 mg/l, 96 hours estimated

Persistence and degradability

No data is available on the degradability of this product.

Material name: DEFOAMER II HIL00183 Version #: 03 Revision date: 03-06-2020 Issue date: 03-05-2015

Bioaccumulative potential

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not contaminate ponds, waterways or ditches with chemical or used container. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation

of applicable law.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment requirements.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

# 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

## 15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List or Exempt.

Toxic Substances Control Act (TSCA)

One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Material name: DEFOAMER II SDS US

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## US state regulations

## California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada

Domestic Substances List (DSL)

Yes

Canada

Non-Domestic Substances List (NDSL)

No

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date

03-05-2015

Revision date

03-06-2020

Version #

03

HMIS® ratings

Health: 0

Flammability: 0 Physical hazard: 0

Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

Revision information

Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Ingredients

Composition/information on ingredients: Component information

Physical & Chemical Properties: Multiple Properties Physical and chemical properties: Appearance Physical and chemical properties: Color Physical and chemical properties: Odor Stability and reactivity: Conditions to avoid Toxicological Information: Toxicological Data Regulatory information: California Proposition 65

Regulatory information: Safe Drinking Water Act (SDWA)
Regulatory information: Toxic Substances Control Act (TSCA)

# Devastator

# HILLYARD The Cleaning Resource

# SAFETY DATA SHEET

## 1. Identification

Product identifier

**DEVASTATOR** 

Other means of identification

SDS number

540N-22A

Product code

HIL00147

Recommended use

Stripper

Recommended restrictions

For Labeled Use Only

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

HILLYARD INDUSTRIES

Address

302 North Fourth St.

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

# 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Acute toxicity, oral

Category 4

2

Category 4

Acute toxicity, dermal

Category 4

Acute toxicity, inhalation

outegory -

Skin corrosion/irritation

Category 1
Category 1

Serious eye damage/eye irritation Specific target organ toxicity, single exposure

Category 3 respiratory tract irritation

**Environmental hazards** 

Hazardous to the aquatic environment, acute hazard

Category 3

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. Harmful to aquatic life.

**Precautionary statement** 

Prevention

Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Avoid release to the environment. Do not eat, drink or smoke when using this product.

Material name: DEVASTATOR

SDS US

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison

center/doctor. Take off contaminated clothing and wash before reuse.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Do not dispose of in storm drain. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry container for recycling or reconditioning.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information

None.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Butoxyethanol	,	111-76-2	20 - < 30
Benzyl Alcohol		100-51-6	5 - < 10
Ethanol, 2-amino-		141-43-5	5 - < 10
Sodium xylene sulfonate		1300-72-7	1-<3
Other components below reporta	ble levels		60 - < 70

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed Burning pain and severe corrosive skin damage. Permanent eye damage including blindness could result. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media

Powder. Alcohol resistant foam. Carbon dioxide (CO2).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up Use water spray to reduce vapors or divert vapor cloud drift.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. This product is miscible in water. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**Environmental precautions** 

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Inform appropriate managerial or supervisory personnel of all environmental releases. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Avoid prolonged exposure. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a well-ventilated place.

## 8. Exposure controls/personal protection

US OSUA Table 7.4 Limits for Air Contaminants (OC OFD 4040 4000)

Occupational exposure limits

Components	Туре	Value	
Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3 ·	
		50 ppm	
Ethanol, 2-amino- (CAS 141-43-5)	PEL	6 mg/m3	
		3 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
Butoxyethanol (CAS 111-76-2)	TWA	20 ppm	
Éthanol, 2-amino- (CAS 141-43-5)	STEL	6 ppm	
	TWA	3 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards	e :	
Components	Туре	Value	
Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3	
		5 ppm	
Ethanol, 2-amino- (CAS 141-43-5)	STEL	15 mg/m3	
<del>2</del>		6 ppm	
	TWA	8 mg/m3	
		3 ppm	

Material name: DEVASTATOR

## US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Туре	Value	
Benzyl Alcohol (CAS 100-51-6)	TWA	44.2 mg/m3	
		10 ppm	

## Biological limit values

ACGIH	Biological	Exposure	Indices

Components	Value	Determinant	Specimen	Sampling Time	
Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

## Exposure guidelines

US - California OELs: Skin designation

Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Butoxyethanol (CAS 111-76-2)

Skin designation applies.

US - Tennessee OELs: Skin designation

Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

## Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes. Chemical safety goggles when working with concentrate.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Butyl rubber gloves are recommended.

Other

Wear appropriate chemical resistant clothing. Wear impervious/slip resistant boots such as

Hillyard Stripping Boots while standing in the stripping solution.

Respiratory protection

Not normally required with adequate ventilation. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

None known.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

Appearance

Clear, colorless liquid

Physical state

Liquid.

Form

Liquid.

Color

Not available.

Odor

Mild solvent odor

Odor threshold

Not available.

На

11 - 12

Melting point/freezing point

Not applicable / Not available

Initial boiling point and boiling

range

210 °F (98.89 °C)

Flash point

> 200.0 °F (> 93.3 °C) Tag Closed Cup

**Evaporation rate** 

< 1 Ethyl ether = 1

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 16 mm Hg Vapor density 1.6 Air=1

Relative density 0.998 at 77°F

Solubility(ies)

Solubility (water) Appreciable

Partition coefficient Not available (n-octanol/water)

Not available Auto-ignition temperature Not available Decomposition temperature

Viscosity Not available

Other information

Density 8.31 lb/gal **Explosive properties** Not explosive. Oxidizing properties Not oxidizing. Percent volatile 97 - 98 %

VOC 27 % CARB 34.2 % US EPA

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong acids. Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact Causes severe skin burns. Harmful in contact with skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

Causes serious eye damage. Eye contact

Ingestion Causes digestive tract burns. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Permanent eye damage including blindness could result. Symptoms may include stinging, tearing, redness,

swelling, and blurred vision. May cause respiratory irritation.

## Information on toxicological effects

Acute toxicity In high concentrations, vapors are anesthetic and may cause headache, fatigue, dizziness and

central nervous system effects. Harmful if inhaled. Harmful in contact with skin, Harmful if

swallowed. May cause respiratory irritation.

Material name: DEVASTATOR

SDS US HIL00147 Version #: 03 Revision date: 08-01-2018 Issue date: 04-01-2015

Components Species Test Results

Benzyl Alcohol (CAS 100-51-6)

**Acute** 

Dermal

LD50

Rabbit

2000 mg/kg

Inhalation

LC50

Rat

1000 mg/l, 8 Hours

\* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Butoxyethanol (CAS 111-76-2)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

**Chronic effects** 

May be harmful if absorbed through skin. Prolonged inhalation may be harmful.

Butoxyethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

# 12. Ecological information

**Ecotoxicity** 

Harmful to aquatic life.

Product		Species	Test Results
DEVASTATOR		5	-
Aquatic			
Crustacea	EC50	Daphnia	369.8716 mg/l, 48 hours estimated
Fish	LC50	Fish	452.138 mg/l, 96 hours estimated
Components		Species	Test Results
Benzyl Alcohol (CAS	100-51-6)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	10 mg/l, 96 hours
Butoxyethanol (CAS 1	11-76-2)		
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
	Ç.		

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Benzyl Alcohol Butoxyethanol

1.1 0.83

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Waste from normal product use may be sewered to a public owned treatment works (POTW) in

compliance with applicable Federal, State, and local pretreatment requirements.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

## 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

the IBC Code

# 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Acute toxicity (any route of exposure)

categories

Skin corrosion or irritation Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## US state regulations

## California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Butoxyethanol (CAS 111-76-2)

## International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada

Domestic Substances List (DSL)

No

Canada

Non-Domestic Substances List (NDSL)

Yes

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date

04-01-2015

Revision date

08-01-2018

Version #

03

HMIS® ratings

Health: 3

Flammability: 0

Physical hazard: 0

Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

## Revision information

Product and Company Identification: Alternate Trade Names

Identification: Recommended restrictions

Hazard(s) identification: Disposal

Exposure controls/personal protection: Appropriate engineering controls

Exposure controls/personal protection: Eye/face protection Exposure controls/personal protection: Hand protection Exposure controls/personal protection: Respiratory protection

Exposure controls/personal protection: Other Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data Toxicological information: Chronic effects Regulatory information: California Proposition 65

HazReg Data: International Inventories

**GHS: Classification** 

HIL00147 Version #: 03 Revision date: 08-01-2018 Issue date: 04-01-2015

# Dust Mop Treatment

# The Cleaning Resources

# SAFETY DATA SHEET

# 1. Identification

Product number

HIL0113555

Product identifier

**HIL-Treat DUST MOP TREATMENT** 

Company information

HILLYARD INC 302 North 4th Street

St. Joseph, MO 64501 United States

Company phone

816-383-8285

**Emergency telephone US** 

1-800-424-9300

Version #

01

Recommended use Recommended restrictions Not available. None known.

# 2. Hazard(s) identification

Physical hazards

Flammable aerosols

Category 1

Gases under pressure

Liquefied gas

Health hazards

Aspiration hazard

Category 1

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if

swallowed and enters airways.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting.

Storage

Store locked up. Protect from sunlight. Store in a well-ventilated place. Do not expose to

temperatures exceeding 50°C/122°F.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Combustible.

Supplemental information

None.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), Hydrotreated Light		64742-47-8	20 - 40
Butane		106-97-8	2.5 - 10
Propane		74-98-6	1 - 2.5
Other components below reportable levels		2012	60 - 80

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Inhalation

If symptoms develop move victim to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

Product name: HIL-Treat DUST MOP TREATMENT

Eye contact

Ingestion

Rinse with water. Get medical attention if irritation develops and persists.

Not likely, due to the form of the product. Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

delayed

Aspiration may cause pulmonary edema and pneumonitis.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Dry chemicals. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting equipment/instructions In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame. Combustible.

## 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Avoid prolonged or repeated contact with skin. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Product name: HIL-Treat DUST MOP TREATMENT

Conditions for safe storage. including any incompatibilities

Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

Occupationa	l exposure	limits

Components	Туре	Value	
Propane (CAS 74-98-6)	, PEL	1800 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit Valu	es		
Components	Туре	Value	
Butane (CAS 106-97-8)	STEL	1000 ppm	-
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
Butane (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	

**Biological limit values** 

Appropriate engineering

controls

No biological exposure limits noted for the ingredient(s).

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other

Wear suitable protective clothing.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

Physical state

Gas.

Form

Aerosol. Liquefied gas.

Color

Not available.

Odor

Not available.

Odor threshold

Not available.

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling range

212 °F (100 °C) estimated

Flash point

-156.0 °F (-104.4 °C) PROPELLANT estimated

**Evaporation rate** 

Not available.

Product name: HIL-Treat DUST MOP TREATMENT W.B.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient (n-octanol/water) Not available.

**Auto-ignition temperature** 

469.4 °F (243 °C) estimated

**Decomposition temperature** 

Not available.

Viscosity

Not available.

Other information

**Explosive properties** 

Not explosive.

Oxidizing properties

Not oxidizing.

Specific gravity

0.676 estimated

# 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid

Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Hazardous decomposition

products

Strong oxidizing agents. Nitrates. Fluorine. Chlorine. No hazardous decomposition products are known.

## 11. Toxicological information

# Information on likely routes of exposure

Inhalation

No adverse effects due to inhalation are expected.

Skin contact

No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation.

Eye contact Ingestion

Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis.

Information on toxicological effects

**Acute toxicity** 

May be fatal if swallowed and enters airways.

Components

Species

**Test Results** 

Butane (CAS 106-97-8)

Acute Inhalation

LC50

ation

Mouse

1237 mg/l, 120 Minutes

52 %, 120 Minutes

Rat

1355 mg/l

Product name: HIL-Treat DUST MOP TREATMENT

Components Species **Test Results** 

Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)

Acute

Dermal

LD50 > 2000 mg/kg Rabbit

> 2000 mg/kg, 24 Hours

Inhalation

LC50

> 7.5 mg/l, 6 Hours

> 4.6 mg/l, 4 Hours

Oral

LD50

Rat

Rat

> 5000 mg/kg

Propane (CAS 74-98-6)

**Acute** 

Inhalation

LC50

Mouse

1237 mg/l, 120 Minutes

52 %, 120 Minutes

Rat

1355 mg/l 658 mg/l/4h

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** 

May be fatal if swallowed and enters airways.

# 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Species** Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)

Aquatic

Fish

Rainbow trout, donaldson trout

2.9 mg/l, 96 hours

**Test Results** 

LC50 (Oncorhynchus mykiss)

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Product name: HIL-Treat DUST MOP TREATMENT

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

# Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Butane 2.89 Propane 2.36

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

# 14. Transport information

DOT

**UN number** UN1950

UN proper shipping name

Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

Class

2.1

Subsidiary risk

2.1

Label(s) Packing group

Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions Packaging exceptions N82

306

None

Packaging non bulk Packaging bulk

None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking.

### IATA

UN number

UN1950

UN proper shipping name

Aerosols, flammable

Transport hazard class(es)

Class

2.1

Subsidiary risk Label(s)

2.1

Packing group

Not applicable.

**Environmental hazards** 

No.

**ERG Code** 

10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

Packaging Exceptions

LTD QTY

IMDG

**UN number** 

UN1950

UN proper shipping name

**AEROSOLS** 

Product name: HIL-Treat DUST MOP TREATMENT

Transport hazard class(es)

Class

2.1

Subsidiary risk

Label(s)

2.1

Packing group

Not applicable.

**Environmental hazards** 

Marine pollutant

No.

**EmS** 

F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Packaging Exceptions

Transport in bulk according to

LTD QTY Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

DOT



IATA; IMDG



**General information** 

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

# 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Product name: HIL-Treat DUST MOP TREATMENT

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

# SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

# SARA 313 (TRI reporting)

Not regulated.

# Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

### **US state regulations**

# US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Butane (CAS 106-97-8)

# US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

# US. New Jersey Worker and Community Right-to-Know Act

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

# US. Pennsylvania Worker and Community Right-to-Know Law

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

### US. Rhode Island RTK

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

# International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe ·	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

Product name: HIL-Treat DUST MOP TREATMENT

Country(s) or region

Inventory name

On inventory (yes/no)\*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

es/

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date

02-15-2019

Version #

01

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

Revision information

Product and Company Identification: Alternate Trade Names

Product name: HIL-Treat DUST MOP TREATMENT

# Enzo-Bac

Occupational Sale ; and Health Administration

UMB 40. 44-RL367

# MATERIAL SAFETY DATA SHEET

Required under USDL Selecy and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1916, 1916, 1917)

Shipbullding, a	nd Si	hipbroskin	g (29 CFR 1916, 1916, 1917)		
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CATALYST None			ALLOVS None		
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SOLVENTS None			FILLER METAL PLUS COATING OR CORE FLUX NODE		
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PAGE (2) 600 68.540

# Explorer

# HILLYARD The Cleaning Resource

# SAFETY DATA SHEET

# 1. Identification

Product identifier EXPLORER

Other means of identification

SDS number 582N-015A

Product code HIL00534

Recommended use Floor Finish

Recommended restrictions For Labeled Use Only Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name HILLYARD INDUSTRIES

Address 302 North Fourth St.

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

# 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Not classified.

Environmental hazards

Hazardous to the aquatic environment, acute Category 3

hazard

OSHA defined hazards

Not classified.

Label elements

Hazard symbol

None.

Signal word

None.

Hazard statement

Harmful to aquatic life.

Precautionary statement

Prevention

Avoid release to the environment.

Response

Wash hands after handling.

Storage

Store away from incompatible materials.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

None.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Ethoxydiglycol		111-90-0	5 - < 10

Material name: EXPLORER
HIL00534 Version #: 04 Revision date: 06-04-2021 Issue date: 02-19-2015

Chemical name	Common name and synonyms	CAS number	%
Tributoxyethyl Phosphate		78-51-3	1 - < 3
Other components below re	portable levels		90 - 100

# 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Treat symptomatically.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Direct contact with eyes may cause temporary irritation.

Ingestion Drink water as a precaution. Get medical attention if any discomfort continues.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

equipment/instructions

Specific methods

General fire hazards

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Follow precautions for safe handling described in this safety data sheet. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is miscible in water. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

**Environmental precautions** 

Precautions for safe handling

Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

# Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Material name: EXPLORER SDS US US. Workplace Environmental Exposure Level (WEEL) Guides

Components Type Value Ethoxydiglycol (CAS **TWA** 140 mg/m3

111-90-0)

25 ppm

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Avoid contact with eyes. Where splashing of concentrate is a concern, use safety goggles or Eye/face protection

protective glasses with side shield.

Skin protection

Hand protection

Not normally needed.

Other

Not normally needed.

Respiratory protection

Not normally required with adequate ventilation. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

None known.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

White emulsion **Appearance** 

Physical state

Liquid.

Form

Liquid.

Color

White

non-objectionable odor

Odor threshold

Not available

pΗ

Odor

8 - 9

Melting point/freezing point

Not applicable / Not available

Initial boiling point and boiling

> 200 °F (> 93.33 °C)

range

Flash point

> 200.0 °F (> 93.3 °C) Tag Closed Cup

**Evaporation rate** 

< 1 (ethyl ether = 1)

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

17.28 mm Hg

Vapor density

1.4724 AIR=1

Relative density

1.039 at 77°F

Solubility(ies)

Solubility (water)

Dispersable

Partition coefficient

Not available

(n-octanol/water)

Not available

Auto-ignition temperature Decomposition temperature

Not available

Viscosity

Not available

Other information

Density

8.65 lb/gal

Material name: EXPLORER

**Explosive properties** 

Oxidizing properties

Not explosive.

Percent volatile

Not oxidizing. 74.5 - 75.5

VOC

**CARB Compliant** 

# 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful. Under normal conditions of intended use, this material is

not expected to be an inhalation hazard.

Skin contact

May be irritating to the skin.

Eye contact

Direct contact with eyes may cause temporary irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

# Information on toxicological effects

Acute toxicity

Not known.

**Product** 

**Test Results** Species

# **EXPLORER**

Acute

**Dermal** 

LD50

Rabbit

28980 mg/kg

Oral

LD50

Rat 16120 mg/kg

Components

Species

**Test Results** 

# Ethoxydiglycol (CAS 111-90-0)

Acute

Dermal

LD50

Rat

6000 mg/kg

# Tributoxyethyl Phosphate (CAS 78-51-3)

Acute

Oral

LD50

Rat

3000 mg/kg

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

# Respiratory or skin sensitization

Respiratory sensitization

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

Material name: EXPLORER HIL00534 Version #: 04 Revision date: 06-04-2021 Issue date: 02-19-2015 IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** 

Harmful to aquatic life.

**Product Species Test Results EXPLORER** Aquatic Crustacea EC50 Daphnia 304.9095 mg/l, 48 hours estimated Fish LC50 Fish 296.619 mg/l, 96 hours estimated Components **Species Test Results** 

Ethoxydiglycol (CAS 111-90-0)

Aquatic

Fish

LC50

Bluegill (Lepomis macrochirus)

No data is available on the degradability of this product.

> 10000 mg/l, 96 hours

Tributoxyethyl Phosphate (CAS 78-51-3)

Aquatic

Fish

LC50

Fathead minnow (Pimephales promelas) 10.4 - 12 mg/l, 96 hours

Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethoxydiglycol

-0.54

Tributoxyethyl Phosphate

3.75

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions** 

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

Material name: EXPLORER HIL00534 Version #: 04 Revision date: 06-04-2021 Issue date: 02-19-2015

SDS US

### IATA

Not regulated as dangerous goods.

### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

### the IBC Code

# 15. Regulatory information

### US federal regulations

Toxic Substances Control Act (TSCA)

One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

# Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

### US state regulations

# California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Tributoxyethyl Phosphate (CAS 78-51-3)

### International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada

Domestic Substances List (DSL)

Yes

Canada

Non-Domestic Substances List (NDSL)

No Yes

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date

02-19-2015

Revision date

06-04-2021

Material name: EXPLORER

SDS US

HIL00534 Version #: 04 Revision date: 06-04-2021 Issue date: 02-19-2015

Version #

**HMIS®** ratings

04

Health: 0

Flammability: 0 Physical hazard: 0

Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.

Material name: EXPLORER

SDS US HIL00534 Version #: 04 Revision date: 06-04-2021 Issue date: 02-19-2015

# Expo-Cleaner



# SAFETY DATA SHEET

# Section 1. Identification

Product name : Expo Cleaner - Bottle

Material uses : Cleaning solutions.

Manufacturer : Newell Rubbermaid

3500 Lacey Road, 10th Floor Downers Grove, IL 60515

USA

800-323-0749 or 630-829-2500

Emergency telephone number (with hours of operation) : CHEMTREC (U.S. and Canada) 1-800-424-9300

# Section 2. Hazards identification

OSHA/HCS status

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

lassification of the substance or mixture

: Not classified.

**GHS label elements** 

Signal word

: Not applicable

Hazard statements

: No known significant effects or critical hazards.

Precautionary statements

General

: Read label before use. If medical advice is needed, have product container or label at

hand

Prevention

: Not applicable.

Response

: Not applicable.

Storage

: Not applicable.

Disposal

: Not applicable.

Hazards not otherwise

classified

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
3-butoxypropan-2-ol	0.1 - 2	5131-66-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting

Expo Cleaner - Bottle

# Section 3. Composition/information on ingredients

# ection 4. First aid measures

# Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position Ingestion

comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

# Most important symptoms/effects, acute and delayed

# Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards. Skin contact : No known significant effects or critical hazards.

Ingestion

: No known significant effects or critical hazards.

# Over-exposure signs/symptoms

Eye contact : No specific data. Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

# Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

# See toxicological information (Section 11)

# Section 5. Fire-fighting measures

# Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

lazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide

carbon monoxide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

training.

# Section 6. Accidental release measures

# ersonal precautions, protective equipment and emergency procedures

# For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

# **Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

# Methods and materials for containment and cleaning up

# Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

# Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

# Control parameters

# Occupational exposure limits

None.

propriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

# Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# Section 8. Exposure controls/personal protection

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

# **Appearance**

Physical state

: Liquid.

Color

рH

: Clear.

Odor

: Characteristic. : Not available.

Odor threshold

: Not available.

Melting point

: Not available.

**Boiling point** 

: Not available.

Flash point

: Open cup: 100°C (212°F) [Estimated.]

**Burning time** 

: Not applicable.

**Burning rate** 

: Not applicable. : Not available.

Evaporation rate

: Not available.

Flammability (solid, gas)

Lower and upper explosive (flammable) limits

: Not available.

: Not available. Vapor pressure Vapor density : Not available.

Relative density

: Not available.

Solubility

: Easily soluble in the following materials: cold water and hot water.

olubility in water artition coefficient: n: Not available.

: Not available.

octanol/water

Auto-ignition temperature

: Not available. : Not available.

Decomposition temperature

: Not available.

SADT Viecocity

Not available

Expo Cleaner - Bottle

# Section 10. Stability and reactivity

eactivity

: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: No specific data.

Incompatible materials

: No specific data.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

# Section 11. Toxicological information

# Information on toxicological effects

# **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
3-butoxypropan-2-ol	LD50 Dermal	Rabbit	3100 mg/kg	-

# Irritation/Corrosion

No known significant effects or critical hazards.

# **Sensitization**

No known significant effects or critical hazards.

# **Mutagenicity**

No known significant effects or critical hazards.

### Carcinogenicity

No known significant effects or critical hazards.

### Reproductive toxicity

No known significant effects or critical hazards.

### **Teratogenicity**

No known significant effects or critical hazards.

# Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

# Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

# Aspiration hazard

No known significant effects or critical hazards.

formation on the likely routes of exposure

: Not available.

# Delayed and immediate effects and also chronic effects from short and long term exposure

# Short term exposure

Potential immediate

: Not available.

Expo Cleaner - Bottle

# Section 11. Toxicological information

# ong term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

# Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

# Numerical measures of toxicity

# Acute toxicity estimates

Route	ATE value
Dermal	161551.5 mg/kg

# Section 12. Ecological information

# ~oxicity

No known significant effects or critical hazards.

# Persistence and degradability

No known significant effects or critical hazards.

### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
3-butoxypropan-2-ol	1.2	(2)	low	

### Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

# Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

)	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-,		-	-	-
Transport hazard class(es)				-	•
Packing group	=:			-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	<b>-</b> Y	-	-	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

# Section 15. Regulatory information

J.S. Federal regulations

: United States inventory (TSCA 8b): All components are listed or exempted.

**SARA 311/312** 

Classification

: Not applicable.

# Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
3-butoxypropan-2-ol	0.1 - 2	Yes.	No.	No.	Yes.	No.

# California Prop. 65

This product does not contain Chemicals known to State of California to cause cancer, birth defects, or reproductive harm.

### Canada

WHMIS (Canada)

: Not controlled under WHMIS (Canada).

Canadian lists

Canadian NPRI

: The following components are listed: Propylene glycol butyl ether

**CEPA Toxic substances** 

: None of the components are listed.

Canada inventory

: All components are listed or exempted.

# ection 16. Other information

### History

Date of issue/Date of

: 3/26/2015.

revision

Date of previous issue

: No previous validation.

1/200:20

Expo Cleaner - Bottle

# Section 16. Other information

ey to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

UN = United Nations

✓ Indicates information that has changed from previously issued version.

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

# Foaming Instant Hand Sanitizer

# The Cleaning Resources

# SAFETY DATA SHEET

# 1. Identification

**Product identifier** 

Foaming Instant Hand Sanitizer

Other means of identification

SDS number

16SAM03084A

Product code

HIL00410

Recommended use

Instant Hand Sanitizer

Recommended restrictions

For Labeled Use Only

This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer.

# Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Address

Company name

HILLYARD INDUSTRIES

302 North Fourth St.

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Serious eye damage/eye irritation

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

# 2. Hazard(s) identification

Physical hazards

Flammable liquids

Category 2 Category 2A

Health hazards

**Environmental hazards** 

Not classified.

**OSHA** defined hazards

Not classified.

Label elements



Signal word

**Hazard statement** 

Highly flammable liquid and vapor. Causes serious eye irritation.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary

measures against static discharge.

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire:

Use appropriate media to extinguish.

Storage

Store in a well-ventilated place. Keep cool.

### Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements.

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information

None.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Ethanol		64-17-5	60 - < 70
Glycerine USP 99.7%		56-81-5	1 - < 3
FRAGRANCE		Mixture	0.225
Other components below reports	able levels		30 - < 40

### 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists. If skin irritation or rash occurs, discontinue use.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delaved

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Irritation of nose and throat. Coughing.

Indication of immediate treatment needed

medical attention and special

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Specific methods

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

Highly flammable liquid and vapor.

### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

# Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

# 7. Handling and storage

# Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

# Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US	OSHA	Table 7-	1 Limits	for Air	Contaminants	129 CFR	1910 1000)
OO.	COLIC	I able 2		IUI AII	CUILLAIIIIIIIIIIII	123 UFF	1310.10001

Components	Туре	Value	Form
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
Glycerine USP 99.7% (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. ACGIH Threshold Limit Values			
Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	

# **Biological limit values**

Appropriate engineering controls

No biological exposure limits noted for the ingredient(s).

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

# Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes.

Skin protection

Hand protection

Not applicable.

Other

Not applicable.

Respiratory protection

Not applicable.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Keep away from food and drink.

# 9. Physical and chemical properties

**Appearance** 

Clear, colorless to slightly amber liquid

Physical state

Liquid.

Form

Liquid.

Color

Colorless to light amber

Odor

Floral / Alcohol odor

Odor threshold

Not available

pH

6.5 - 7.5

Melting point/freezing point

Not available

Initial boiling point and boiling

178 °F (81.11 °C)

range

Flash point

73.0 °F (22.8 °C) Tag Closed Cup

**Evaporation rate** 

< 1 Ethyl ether = 1

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

30.84 mm Hg

Vapor density

1.3222 AIR=1

Relative density

0.881 - 0.891 at 77°F

Solubility(ies)

Solubility (water)

100 % complete

Partition coefficient

(n-octanol/water)

Not available

Auto-ignition temperature

Not available

**Decomposition temperature** 

Not available

**Viscosity** 

Not available

Other information

Density

7.34 - 7.42 lb/gal

Explosive properties

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

96 - 98 %

VOC

Not available

# 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

Hazardous polymerization does not occur.

reactions Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

Material name: Foaming Instant Hand Sanitizer

SDS US

# 11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Irritation of nose and throat. Coughing.

Information on toxicological effects

Acute toxicity Not known.

Product **Species Test Results** 

Foaming Instant Hand Sanitizer

Acute

Inhalation

LC50 Mouse 63 mg/l, 4 Hours

Oral

LD50 Rat 10 g/kg

Components **Species Test Results** 

Ethanol (CAS 64-17-5)

**Acute** 

Inhalation

LC50 Mouse 39 mg/l, 4 Hours

Oral

LD50 Rat 6.2 g/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Possible reproductive hazard. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Prolonged inhalation may be harmful. **Chronic effects** Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Material name: Foaming Instant Hand Sanitizer

SDS US HIL00410 Version #: 05 Revision date: 04-23-2021 Issue date: 04-10-2015

	Product		Species	Test Results
	Foaming Instant Hand Sanitize	er	estational de disease estational	
	Aquatic			
	Crustacea	EC50	Daphnia	10784.0215 mg/l, 48 hours estimated
)	Fish	LC50	Fish	16004.3594 mg/l, 96 hours estimated
	Components		Species	Test Results
	Ethanol (CAS 64-17-5)			
	Aquatic			
	Crustacea	EC50	Water flea (Daphnia magna)	7.7 - 11.2 mg/l, 48 hours
	Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
	Glycerine USP 99.7% (CAS 50	6-81-5)		*
Aquatic				
	Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	51000 - 57000 mg/l, 96 hours
	ersistence and degradability ioaccumulative potential	No data is avai	lable on the degradability of this product.	,
	Partition coefficient n-octan	ol / water (log K	ow)	
	Ethanol	·	-0.31	
8.4	Glycerine USP 99.7%	No data availat	-1.76	
	obility in soil ther adverse effects			tion photochomical arone proction
		potential, endo	se environmental effects (e.g. ozone deple crine disruption, global warming potential)	
1	3. Disposal consideration	IS		(47)
D )	isposal instructions	material under containers. Do discarded, this contents/contai assumes all risl	laim or dispose in sealed containers at lice controlled conditions in an approved incine not contaminate ponds, waterways or ditcl product is considered a RCRA ignitable water in accordance with local/regional/nation of and liability associated with disposal of the tion of applicable law.	erator. Do not incinerate sealed hes with chemical or used container. If aste, D001. Dispose of nal/international regulations. Buyer
Lo	ocal disposal regulations	Dispose in acco	ordance with all applicable regulations.	
H	azardous waste code		ammable material with a flash point <140 should be assigned in discussion betwee any.	
	aste from residues / unused roducts		ccordance with local regulations. Empty co s. This material and its container must be ctions).	
C	ontaminated packaging		containers may retain product residue, follo containers should be taken to an approve	
1	4. Transport information			
D	от			
	UN number	UN1170		
	UN proper shipping name Transport hazard class(es)		UTIONS (Ethanol) (Denatured Alcohol 40	B, 190 Proof)
	Class Subsidiary risk	3		
	Label(s)	3		
	Packing group	II		
		그림 그렇게 하는 맛있었다고 그 얼마나 있다. 그 뭐 하고 있다.	tructions, SDS and emergency procedures	s before handling.
	Special provisions Packaging exceptions	24, IB2, T4, TP 150	L	
V	Packaging exceptions  Packaging non bulk	202		
)	Packaging bulk	242		
	ERG number	127		

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

DOT



General information

PACKAGES 1 LITER AND SMALLER ARE SHIPPED LIMITED QUANTITY

# 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List or Exempt.

This product is regulated by the FDA as an Over the Counter Drug Product. It is labeled in

accordance with FDA regulations.

**Toxic Substances Control Act (TSCA)** 

One or more components of the mixture are not on the TSCA 8(b) inventory

or are designated "inactive".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

categories

Flammable (gases, aerosols, liquids, or solids)

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

# Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Ethanol (CAS 64-17-5)

Low priority

Glycerine USP 99.7% (CAS 56-81-5)

Other Flavoring Substances with OSHA PEL's

Material name: Foaming Instant Hand Sanitizer

SDS US

### US state regulations

### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65); This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

# International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada

Domestic Substances List (DSL)

No

Canada

Non-Domestic Substances List (NDSL)

No

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date

04-10-2015

Revision date

04-23-2021

Version #

05

**HMIS®** ratings

Health: 2

Flammability: 3

Physical hazard: 0

Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

Revision information

Hazard(s) identification: Hazard statement

Hazard(s) identification: Prevention

Hazard(s) identification: Hazard(s) not otherwise classified (HNOC)

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data Toxicological information: Mutagenicity Toxicological information: Reproductivity

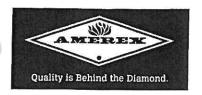
Toxicological information: Specific target organ toxicity - repeated exposure

Disposal considerations: Disposal instructions

Material name: Foaming Instant Hand Sanitizer

HIL00410 Version #: 05 Revision date: 04-23-2021 Issue date: 04-10-2015

# Fire Extinguishant ABC Dry Chemical



# SAFETY DATA SHEET

# Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Other Identifiers: Product Code(s):

Model Code(s) for Extinguishers:

Recommended Use:

Manufacturer:

Internet Address: Address:

Company Telephone:

E-mail Address:

**Emergency Contacts:** 

Revised:

ABC Dry Chemical Fire Extinguishant-(Pressurized and Non-pressurized)

Multi-purpose Dry Chemical

CH550, F15, F18

411, 417, 419, 423, 424, 425, 441, 443, 450, 456, 461, 464, 467, 470, 473, 476, 481, 487, 488, 491, 495, 500, 564, 567, 573, 581, 589, 592, 594, 668, 692, 713, 714, 715, 720, 756, 760, 763, 781, 790,

791, 792.

Fire suppression, not for human

or animal drug use.

AMEREX CORPORATION

www.amerex-fire.com

7595 Gadsden Highway, P.O. Box 81

Trussville, AL 35173-0081

(205) 655-3271

info@amerex-fire.com

Chemtrec 1(800) 424-9300 or

(703) 527-3887

July 8, 2020; Revision B

# Section 2. HAZARDS IDENTIFICATION

# **GHS - Classification**

Health	Environmental	Physical
Acute Toxicity: Category 5	None	None
Skin Corrosion/Irritation: Category 3	None	None
Skin Sensitization: NO	None	None
Eye: Category 2A	None	Warning
STOT –Category 3	None	Warning
Carcinogen: Category None	None	None

**(!)** 



GHS – Label Symbol(s):

If Pressurized: Gas Under Pressure

GHS - Signal Word(s):

Warning

Page 1 of 13 Pages

<u>ABC</u>

SDS Part Number 27204

Other Hazards Not Resulting in Classification: Mica may contain small quantities of quartz (crystalline silica). Prolonged exposure to respirable crystalline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling lung disease known as silicosis. IARC found limited evidence for pulmonary carcinogenicity of crystalline silica in humans. In the case of normal use of this product, exposure to silica should be nil.

The attapulgite clay used in this product has a fiber length of less than 5um; therefore, the clay is not considered to be carcinogenic to animals or humans.

GHS - Hazard Phrases

GHS Hazard	GHS Codes(s)	Code Phrase(s)
Physical	H229	*- Contents under pressure; may explode if heated.
Health	303	May be harmful if swallowed.
	315	Causes skin irritation.
	319	Causes serious eye irritation.
	335	May cause respiratory irritation,
Environmental	411	Toxic to aquatic life with long-lasting effects.
Precautionary:		
General	P101	If medical advice is needed, have product container or label at hand.
Prevention	P251	Do not pierce or burn, even after use. [As modified by IV ATP]
	261	Avoid breathing dust/fumes/gas/mist/vapours/spray. [As modified by IV ATP]
	264	Wash thoroughly after handling.
	270	Do not eat, drink or smoke when using this product.
	273	Avoid release to the environment.
	280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P312	Call a POISON CENTER/doctor//if you feel unwell [As modified by IV ATP]
	321	Specific treatment (see on this label)
	362	Take off contaminated clothing. [As modified by IV ATP]
	391	Collect spillage.
3	301+312	IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell
	302+352	IF ON SKIN: Wash with plenty of water/[As modified by IV ATP]
	304+340	IF INHALED, remove person to fresh air and keep comfortable for breathing.
i.	305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if
**		present and easy to do - continue rinsing.
k!	332+313	If skin irritation occurs: Get medical advice/attention.
2.7	342+313	If experiencing respiratory symptoms, call a doctor,
0	337+313	If eye irritation persists, get medical advice/attention.
Storage	P410+403	*- Protect from sunlight. Store in well-ventilated place.
Disposal	P501	Dispose of contents/container to [ in accordance with
9		local/regional/national/international regulation (to be specified)].

<sup>\*-</sup> If under pressure

### Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No.	Weight %
Mono-ammonium phosphate	231-764-5	01-2119488166-29	7722-76-1	55-77
Ammonium sulfate	231-984-1	01-2119455044-46	7783-20-2	15-45
Attapulgite clay	601-805-5	Not Available	12174-11-7	3-8
Mica- potassium aluminum silicate	310-1276	Not Available	12001-26-2	<1
Silicone oil methyl hydrogen polysiloxane	613-152-3	Not Available	63148-57-2	<1
Calcium carbonate	207-439-9	Not Available	1317-65-3	<1
Amorphous silica precipitated synthetic zeoliteghs	231-545-4	01-2119379499-16- 0036	7631-86-9	<1
Yellow 14 pigment – diazo dye	226-789-3	Not Available	5468-75-7	<1

Adverse health effects and symptoms:

Irritant to the respiratory system; Irritating to eyes and skin. Symptoms may include coughing, shortness of breath, and irritation of the lungs, eyes, and skin. Ingestion, although unlikely, may cause cramps, nausea and diarrhea.

### Section 4. FIRST AID MEASURES

Eye Exposure:

Skin Exposure:

Inhalation:

Ingestion:

May cause irritation. Irrigate eyes with water and repeat until pain free. Seek medical attention if irritation develops, or if vision changes occur. May cause skin irritation. In case of contact, wash with plenty of soap and water. Seek medical attention if irritation persists.

May cause irritation, along with coughing. If respiratory irritation or distress occurs, remove victim to fresh air. Give oxygen and artificial respiration if needed. Seek medical attention if irritation persists. Overdose symptoms may include numbness or tingling in hands or feet, uneven heart rate, paralysis, feeling faint, chest pain or heavy feeling, pain spreading to the arm or shoulder, nausea, diarrhea, sweating, general ill feeling, or seizure (convulsions). If victim is conscious and alert, give 2-3 glasses of water to drink. If conscious, do not induce vomiting. Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist.

Medical conditions possibly aggravated by exposure:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis. Skin contact may aggravate existing skin disease. Chronic overexposure may cause pneumoconiosis ("dusty lung" disease).

### Section 5. FIRE-FIGHTING MEASURES

Flammable Properties:

Flash Point:

Suitable Extinguishing Media:

Hazardous Combustion Products:

**Explosion Data:** 

Sensitivity to Mechanical Impact:

Sensitivity to Static Discharge:

Unusual fire/explosion hazards:

Protective Equipment and Precautions for Firefighters:

Not flammable Not determined

Not determined

Non-combustible. Use extinguishing media suitable

for surrounding conditions.

Carbon and sulfur oxides

Not sensitive Not sensitive

In a fire this material may decompose, releasing toxic

and irritating oxides of carbon, sulfur, potassium,

ammonia and nitrogen (see Section 10).

As in any fire, wear self-contained breathing

apparatus in pressure-demand, NIOSH approved or

equivalent and full protective gear.

### Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid inhalation, and contact with skin, eyes, and

clothing.

Personal Protective Equipment:

Minimum - safety glasses, gloves, and a dust

respirator.

**Emergency Procedures:** 

Methods for Containment:

NA

Prevent further leakage or spillage if safe to

do so.

Methods for Clean Up:

Avoid dust formation. Clean up released material using vacuum or wet sweep and shovel to minimize generation of dust. Bag and transfer to properly labeled containers. Ventilate area and wash spill site

after material pickup is complete.

**Environmental Precautions:** 

Prevent material from entering waterways.

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ABC

SDS Part Number 27204

Other:

If product is contaminated, use PPE and containment appropriate to the nature of the most toxic chemical/material in the mixture.

### Section 7. HANDLING AND STORAGE

Personal Precautions: Use appropriate PPE when handling or maintaining

equipment and wash thoroughly after handling (see

Section 8).

Conditions for Safe Storage/Handling: Keep product in original container or extinguisher.

Contents may be under pressure – inspect extinguisher consistent with product labeling to

ensure container integrity.

Incompatible Products: Do not mix with other extinguishing agents,

particularly potassium bicarbonate and sodium bicarbonate. Incompatible with strong oxidizing agents and strong acids. Do not store in high

humidity. Do not combine with chlorine compounds.

### Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Mono-ammonium phosphate	PNOC** Total dust, 15 mg/m³ Respirable fraction, 5 mg/m³	PNOC** Total dust, 10 mg/m³ Respirable fraction, 3 mg/m³	PNOC** Total dust, 4 mg/m³ Respirable fraction, 1.5 mg/m³	NA .
Ammonium Sulfate	PNOC** Total dust, 15 mg/m³ Respirable fraction, 5 mg/m³	PNOC** Total dust, 10 mg/m³ Respirable fraction, 3 mg/m³	PNOC** Total dust, 4 mg/m³ Respirable fraction, 1.5 mg/m³	NA
Mica	PNOC** Total dust, 15 mg/m³ 50 ug/m³ Silica	PNOC** Total dust, 15 mg/m³ 25 ug/m³ Silica	PNOC** Total dust, 4 mg/m³ Respirable fraction, 1.5 mg/m³	NA
Attapulgite Clay	PNOC** Total dust, 15 mg/m³ Respirable fraction, 5 mg/m³	PNOC Total dust, 10 mg/m³ Respirable fraction, 3 mg/m³	PNOC** Total dust, 4 mg/m³ Respirable fraction, 1.5 mg/m³	
Silicone oil	NR**	NR**	NR**	NA
Calcium carbonate	PNOC** Total dust, 15 mg/m³ Respirable fraction, 5 mg/m³	PNOC** Total dust, 10 mg/m³ Respirable fraction, 3 mg/m³		NA
Amorphous silica	80 mg/m <sup>3</sup> % silica	10 mg/m <sup>3</sup>	4 mg/m <sup>3</sup>	NA
Yellow 14 pigment	NR	NR	NR	NA

<sup>\*</sup>German regulatory limits \*\*PNOC = Particulates not otherwise classified (ACGIH) also known as Particulates not otherwise regulated (OSHA) \*\*\* NR = Not Regulated. All values are 8 hour time weighted average concentrations.

### **Engineering Controls:**

Showers Eyewash stations Ventilation systems

### Personal Protective Equipment - PPE Code E:

The need for respiratory protection is not probable during short-term exposure. PPE use during production process must be independently evaluated.









Eye/Face Protection: Skin and Body Protection: Respiratory Protection:

Tightly fitting safety goggles Wear protective gloves/coveralls If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn. Use P100 respirators for limited exposure, use air-purifying respirator (APR) with high efficiency particulate air (HEPA) filters for prolonged exposure. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current safety and health requirements. The need for respiratory protection is not likely for short-term use in well ventilated areas. Good personal hygiene practice is essential, such as avoiding food, tobacco products, or other hand-tomouth contact when handling. Wash thoroughly after handling.

Hygiene Measures:

### Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Molecular Weight:

Odor:

Odor Threshold:

Decomposition Temperature °C:

Light yellow powder, finely divided odorless

solid

NH4H2PO4: 115.03; (NH4)2SO4: 132.14

Odorless

No information available

100 - 120

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<u>ABC</u>

SDS Part Number 27204

Freezing Point °C: Initial Boiling Point °C:

Physical State:

pH:

Flash Point °C:

Auto-ignition Temperature <sup>o</sup>C:

Boiling Point/Range °C: Melting Point/Range OC:

Flammability:

Flammability/Explosive Limits in Air °C:

**Explosive Properties:** Oxidizing Properties:

Volatile Component (%vol)

**Evaporation Rate:** Vapor Density:

Vapor Pressure at 25 °C: Specific gravity at 25 °C:

Solubility:

Partition Coefficient:

Viscosity:

No information available No information available Crystalline Powder

Mixture approximately 4 to 5; NH4H2PO4: 4.2 in 0.2 molar solution; (NH4)2SO4: 5.5 in 0.1 molar solution

None None

No information available

NH4H2PO4: 190; (NH4)2SO4: 280

Not Flammable

Upper - No: Lower-No

None None

Not Applicable

No information available No information available

NH4H2PO4: 1.41 mm/Hg; (NH4)2SO4: 2.573 kPa

NH4H2PO4: 1.80; (NH4)2SO4: 1.77 Coated-Not Immediately Soluble in Water

NH4H2PO4 Est: -4.11; (NH4)2SO4: Est: -0.48

No information available

NOTE: NH4H2PO4 - Monoammonium Phosphate; (NH4)2SO4: - Ammonium Sulfate

### Section 10. STABILITY AND REACTIVITY

Stability:

Reactivity:

Incompatibles:

Conditions to Avoid:

Hazardous Decomposition Products:

Stable under recommended storage and handling

conditions.

No reactivity for these chemicals is expected.

Strong alkalis (bases), magnesium, strong oxidizers,

isocyanuric acids and chlorine compounds.

Storage or handling near incompatibles.

Heat of fire may release carbon monoxide, carbon dioxide, and sulfur dioxide. Also, ammonia, oxides of phosphorous and nitrogen oxides may be released

during decomposition.

Possibility of Hazardous Reactions:

Slight

Hazardous Polymerization

Does not occur

### Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

Inhalation, skin, and eye contact.

Symptoms:

Immediate:

Inhalation:

Eyes:

Skin:

Delayed:

Acute Toxicity: Chronic Toxicity:

Short-term Exposure:

Long-term Exposure:

Irritation, coughing.

Irritation.

Irritation.

Symptoms appear to be relatively immediate

Relatively non-toxic.

None known.

As with all dusts, pneumoconiosis, or "dusty lung"

disease, may result from chronic exposure.

Acute Toxicity Values - Health

Chemical Name		LC50 (Inhalation)	
	Oral	Dermal	
Mono-ammonium phosphate	5750 mg/kg (rat)	>7940 mg/kg (rabbit)	Not available .
Ammonium Sulfate	2840 mg/kg (rat)	>2000 mg/kg (rat)	>1000 mg/m <sup>3</sup> (rat)
Mica	None	None	None
Attapulgite clay	None	None	None
Silicone oil	None .	None	None
Calcium carbonate	6450 mg/kg (rat)	500 mg/24 hr (rabbit)	Not available
Amorphous silica	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	>2.2 mg/L (rat)
Yellow 14 pigment	>17000 mg/kg (rat)	>3000 mg/kg (rat)	>4448 mg/m³ (rat)

Reproductive Toxicity:

This product's ingredients are not known to have

reproductive or teratogenic effects.

Target Organs and Effects (TOST): Respiratory system irritant).

This product is a mild irritant to epithelial tissue, (eyes, mucous membranes, skin) and may aggravate dermatitis. No information was found indicating the

product causes sensitization.

**Other Toxicity Categories** 

Chemical Name	Germ Cell Mutagenicity	Carcino- genicity	Repro- ductive	TOST Single Exp	TOST Repeated Exp	Aspiration
Mono-ammonium phosphate	None	None	None	Cat 3	None	None
Ammonium Sulfate	None	None	None	Cat 3	None	None
Attapulgite clay	None	None	None	None	Kidney	None
Mica	None	None	None	None	None	None
Silicone oil	None	None	None	None	None	None
Calcium carbonate	None	None	None	None	None	None
Amorphous silica	None	None	None	None	None	None
Yellow 14 pigment	None	None	None	None	None	None

### Section 12. ECOLOGICAL INFORMATION

Ecotoxicity: Harmful effects to aquatic organisms after long-term

exposure. Provides nutrient nitrogen and phosphorus to

plant life.

Persistence/Degradability:

Degrades rapidly in humid/wet environment.

Probability of rapid biodegradation:

NH4H2PO4 Est: 0.693 (Rapid); (NH4)2SO4: Est: 0.684 (Rapid)

Anaerobic biodegradation probability:

NH4H2PO4 Est: 0.398 (Slow);

(NH4)2SO4: Est: 0.398 (Slow)

Bioaccummulation potential:

Low.

Bioconcentration factor:

NH4H2PO4: 3.16 L/kg; (NH4)2SO4: 3.16 L/kg (wet weight)

(Low BCF)

Bioaccummulation factor:

NH4H2PO4: 63.04 L/kg; (NH4)2SO4: 1.03 L/kg (wet weight)

Mobility in soil:

Slow evaporation rate; water soluble, may leach to

groundwater

Log Koc: Log Koa: Log Kaw: NH4H2PO4 Est: -1.25; (NH4)2SO4 Est: 1.35

NH4H2PO4 Est: 16.72; (NH4)2SO4 Est: 20.10 NH4H2PO4 Est: -20.86; (NH4)2SO4 Est: -19.62

NOTE: NH4H2PO4 - Mono-ammonium Phosphate; (NH4)2SO4: - Ammonium Sulfate

Other Adverse Ecological Effects:

No other known effects at this time

Aquatic Toxicity Values - Environment - Research

Chemical Name	Acute (LC50)	Chronic (LC50)
Mono-ammonium phosphate	N/A	N/A
Ammonium Sulfate	N/A	N/A
Mica	N/A	N/A
Attapulgite clay	N/A	N/A
Silicone oil	N/A	N/A
Calcium carbonate	N/A	N/A
Amorphous silica	N/A	N/A
Yellow 14 pigment	N/A	N/A

Aquatic Toxicity Values – Environment – Estimates

Chemical Name	Acute (LC50)	EC50
Mono-ammonium phosphate	2,91e+07 mg/l Fish 96 hr; 9.4e+06 mg/l Daphnid 48 hr;	6.70e+05 mg/l Gr. Algae 96 hr
Ammonium Sulfate	2521 mg/l Fish 96 hr; 1244 mg/l Daphnid 48 hr;	518 mg/l Gr. Algae 96 hr
Mica	N/A	N/A
Attapulgite clay	N/A	N/A
Silicone oil	N/A	N/A
Calcium carbonate	N/A	N/A
Amorphous silica	N/A	N/A
Yellow 14 pigment	N/A	N/A

### Section 13. DISPOSAL CONSIDERATIONS

Safe Handling Use appropriate PPE when handling and wash

thoroughly after handling (see Section 8).

Waste Disposal Considerations Dispose in accordance with federal, state, and local

regulations.

Contaminated Packaging Dispose in accordance with federal, state, and local

regulations.

### NOTES:

This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal laws or regulations. Used product may be altered or contaminated, creating different disposal considerations.

### Section 14. TRANSPORT INFORMATION

UN Number: NA

UN Proper Shipping Name: NA

Transport Hazard Class: NA Packing Group: NA

Marine Pollutant?:

IATA Not regulated

DOT Not regulated

### NOTES:

This product is not defined as a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, or by Transport Canada "Transportation of Dangerous Goods" regulations.

### Special Precautions for Shipping:

The transportation information above covers the ABC 550 dry chemical extinguisher agent as shipped in bulk containers and not when contained in fire extinguishers or fire extinguisher systems. If shipped in a stored pressure-type fire extinguisher, and pressurized with a non-flammable, non-toxic inert expellant gas, the fire extinguisher is considered a hazardous material by the US Department of Transportation and Transport Canada. The proper shipping name shall be FIRE EXTINGUISHER and the UN designation is UN 1044. The DOT hazard class/division is LIMITED QUANTITY when pressurized to less than 241 psig and when shipped via highway or rail. UN Class 2.2. Non-Flammable Gas, when shipping via air. Packing Group – N/A

### Section 15. REGULATORY INFORMATION

International Inventory Status: All ingredients are on the following inventories

	g. carerite are on the following inventories			
Country(ies)	Agency	Status		
United States of America	TSCA	Yes		
Canada	DSL	Yes		
Europe	EINECS/ELINCS	Yes		
Australia	AICS	Yes		
Japan	MITI	Yes		
South Korea	KECL	Yes		

### **REACH Title XVII Restrictions:**

### No information available

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on Label	Pollution Release and Transfer Registry (Class II)	Pollution Release and Transfer Registry (Class I)	Poison and Deleterious Substances Control Law
Mono-ammonium Phosphate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Ammonium Sulfate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Component	ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA – Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) – Toxic Chemicals	Toxic Release Inventory (TRI) – Group I	Toxic Release Inventory (TRI) – Group II
Mono-ammonium Phosphate 7722-76-1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Ammonium Sulphate 7783-20-2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Attapulgite clay	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Mica- potassium aluminum silicate 120001-26-2 (>2)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Calcium carbonate 471-34-1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amorphous silica 59012-64-2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Yellow 14 pigment 5468-75-7	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

### European Risk and Safety phrases:

EU Classification:

XN

Irritant

R Phrases:

20

Harmful by inhalation.

22

Harmful if swallowed

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ABC

SDS Part Number 27204

S Phrases:	36/37/38 22	Irritating to eyes, respiratory system, and skin. Do not breath dust.
	24/25	Avoid contact with skin and eyes
	26	In case of contact with eyes, rinse immediately with
		plenty of water and seek medical advice.
	36	Wear suitable protective clothing.
	37/39	Wear suitable gloves and eye protection.

### **U.S. Federal Regulatory Information:**

### **SARA 313:**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) - This product does not contain and chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

None of the chemicals in this product are under SARA reporting requirements or have SARA threshold planning quantities (TPQs) or CERCLA reportable quantities (RQs), or are regulated under TSCA 8(d).

### SARA 311/312 Hazard Categories:

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
*-Sudden Release of Pressure Hazard	Yes
Reactive Hazard	No

<sup>\* -</sup> Only applicable if material is in a pressurized extinguisher.

### Clean Water/Clean Air Acts:

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) or Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) and Section 112 of the Clean Air Act Amendments of 1990.

### U.S. State Regulatory Information:

Chemicals in this product are covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: None

California - Permissible Exposure Limits for Chemical Contaminants: None

Florida – Substance List: Mica Dust

Illinois - Toxic Substance List: None

Kansas - Section 302/303 List: None

Massachusetts - Substance List: Mica Dust

Minnesota – List of Hazardous Substances: None

Missouri – Employer Information/Toxic Substance List: None

New Jersey - Right to Know Hazardous Substance List: None

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ABC

SDS Part Number 27204

North Dakota - List of Hazardous Chemicals, Reportable Quantities: None

Pennsylvania – Hazardous Substance List: None Rhode Island – Hazardous Substance List: Mica Dust

Texas - Hazardous Substance List: None

West Virginia – Hazardous Substance List: None Wisconsin – Toxic and Hazardous Substances: None

California Proposition 65: No component is listed on the California Proposition 65 list.

### Other:

Mexico – Grade Canada – WHMIS Hazard Class

No component listed

Ammonium Sulfate listed as not a dangerous product

according to HPR classification criteria

### Section 16. OTHER INFORMATION

This Information Sheet complies with the requirements of US, UK, Canadian, Australian and European regulations or standards, and conforms to the proposed format, ANSI Z400.1, 2003. No modification of this safety data sheet is permitted by AMEREX Corporation. Questions or comments should be directed to AMEREX Corporation (see section 1).

Issuing Date Revision Date Revision Notes 20-June-2012

8-July-2020; Revision B

None

The information herein is given in good faith but no warranty, expressed or implied, is made. Updated by William F. Garvin, CIH.

## Fire Extinguishant KP Wet Agent



### Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

CH 530/660 KP Wet Agent

Other Identifiers:

Class K liquid agent for extinguishers

Product Code(s):

CH530/CH660

Model Code(s) for Fire Extinguishers: Recommended Uses:

260, 262

Class K Extinguishant

Manufacturer: Internet Address: AMEREX CORPORATION

Address:

www.amerex-fire.com

7595 Gadsden Highway, P.O. Box 81 Trussville, AL 35173-0081

Company Telephone:

(205) 655-3271

E-mail Address:

info@amerex-fire.com

**Emergency Contacts:** 

Chemtrec 1(800) 424-9300 or

(703) 527-3887

Revised:

March 7, 2019

### Section 2. HAZARDS IDENTIFICATION

### GHS - Classification

Health	Environmental	Physical
Acute Toxicity: Category 5	None	None
Skin Corrosion/Irritation: Cat. 3	None	None
Skin Sensitization: NO	None	None
Eye: Cat. 2B	None	None
Carcinogen: Category None	None	None

GHS - Label Symbol(s):

If Pressurized: Gas Under Pressure

GHS - Signal Word(s):

Warning

Other Hazards Not Resulting in Classification:

None

### GHS - Hazard Phrases

GHS Hazard	GHS Codes(s)	Code Phrase(s)
Physical	H229	*- Contents under pressure; may explode if heated.
Health	H303	May be harmful if swallowed.
	316	Causes mild skin irritation.
	320	Causes eye irritation.
	335	May cause respiratory irritation.
Environmental	None	
Precautionary:		
General	P101	If medical advice is needed, have product container or label at hand
Prevention	P251	Do not pierce or burn, even after use.
	264	Wash exposed skin thoroughly after handling.
	270	Do not eat, drink or smoke when using this product.
	280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P321	Specific treatment (see Section 4. First Aid Measures)
To the manufacture and total of the	362	Take off contaminated clothing.
	391	Collect spillage.
	301+312	IF SWALLOWED: Call a doctor if you feel unwell
	302+352	IF ON SKIN: Wash with plenty of water.
	304+340	IF INHALED, remove person to fresh air and keep comfortable for breathing.
	305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if
		present and easy to do - continue rinsing.
	332+313	If skin irritation occurs: Get medical advice/attention.
	337+313	If eye irritation persist get medical advice/attention.
	342+311	If experiencing respiratory symptoms: Call a doctor.
Storage	P410+403	*- Protect from sunlight. Store in well-ventilated place.
Disposal	P501	Dispose of contents through a licensed disposal company. Contaminated container should
		be disposed of as unused product.

<sup>\*-</sup> If under pressure

### Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No. REA		CAS-No.	Weight %
Water	NA	NA	7732-18-5	40-60
Potassium acetate	204-822-2	NA	127-08-2	40-60
Potassium citrate	212-755-5	NA	866-84-2	<8

Emergency overview:

Adverse health effects and symptoms:

Clear to opaque liquid solution.

This product is an irritant to the respiratory system, eyes, and skin. Symptoms may include coughing, sore throat, difficulty breathing, eye pain, and skin redness and irritation. Ingestion, although unlikely, may cause cramps, nausea and diarrhea.

### Section 4. FIRST AID MEASURES

Eye Exposure:

May cause irritation. Irrigate eyes with water and repeat until pain free. Seek medical attention if irritation persists.

Page 2 of 11 Pages CH530/660 KP WET AGENT SDS Part Number 26926 Skin Exposure:

May cause skin irritation. In case of contact, wash with plenty of soap and water. Seek medical attention

if irritation persists.

Inhalation:

May cause irritation, along with coughing. May cause dizziness or drowsiness. If respiratory irritation or distress occurs, remove victim to fresh air. Seek

medical attention if irritation persists.

Ingestion:

Overdose symptoms may include gastrointestinal complaints or change in urine output. If victim is conscious and alert, rinse out mouth and give 1-2 glasses of water or milk to drink. Do not induce vomiting. Consult medical service if feel unwell. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than weight

than waist.

Medical conditions possibly aggravated by exposure:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis. Skin contact may aggravate existing skin disease.

### Section 5. FIRE-FIGHTING MEASURES

Flammable Properties:

Flash Point:

Suitable Extinguishing Media:

Hazardous Combustion Products:

**Explosion Data:** 

Sensitivity to Mechanical Impact:

Sensitivity to Static Discharge:

Unusual fire/explosion hazards:

Protective Equipment and Precautions for Firefighters:

Not flammable Not determined

Non-combustible. Use extinguishing media suitable

for surrounding conditions.

Carbon, acetic acid fumes, and sulfur oxides

Not sensitive

Not sensitive

In a fire this material may decompose, releasing oxides of carbon and potassium. (see Section 10).

As in any fire, wear self-contained breathing apparatus pressure-demand. NIOSH (approved or equivalent) and full protective gear.

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### Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Personal Protective Equipment:

**Emergency Procedures:** 

Methods for Containment:

Methods for Clean Up:

**Environmental Precautions:** 

Other:

Avoid contact with skin, eyes, and clothing.

During minor spill clean-up: Minimum – chemical

goggles, nitrile gloves, and an air purifying respirator. Large spills (one container or more) should be

addressed by hazardous materials technicians who

follow a specific emergency response plan and who

are trained in the appropriate use of PPE. Prevent further leakage or spillage if safe to

do so. Use sorbent socks for containment

Clean up released material using sorbent materials.

Bag and drum for disposal; properly label containers; dispose as required by local, state, and federal

regulations. Decontaminate with detergent and water.

Prevent material from entering waterways.

If product is contaminated, use PPE and containment

appropriate to the nature of the most toxic

chemical/material in the mixture.

### Section 7. HANDLING AND STORAGE

Personal Precautions:

Use appropriate PPE when handling or maintaining

equipment, and wash thoroughly after handling (see

Section 8).

Conditions for Safe Storage/Handling:

Keep product in original container or extinguisher in a cool area. Use in well ventilated area, Prevent falling.

Do not allow near heat sources. Contents may be under pressure – inspect extinguisher consistent with

product labeling to ensure container integrity.

Do not mix with other extinguishing agents, strong

acids, strong oxidants.

Hazardous Decomposition Products:

Hennedaya Dahasasinatian

Hazardous Polymerization:

Incompatible Products:

Carbon dioxide, phosphorous oxide, acetic acid.

Will not occur

### Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Water	NR	NR	NR	NR
Potassium acetate	NR	NR	NR	NR
Potassium citrate	NR	NR	NR	NR

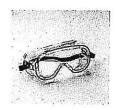
<sup>\*</sup>German regulatory limits \*\*PNOC = Particulates not otherwise classified (ACGIH) also known as Particulates not otherwise regulated (OSHA) \*\*\* NR = Not Regulated. All values are 8 hour time weighted average concentrations.

### **Engineering Controls:**

Showers Eyewash stations Ventilation systems

### Personal Protective Equipment - PPE Code E:

The need for respiratory protection is not probable during short-term exposure. PPE use during production process must be independently evaluated.









Eye/Face Protection: Skin and Body Protection:

Respiratory Protection:

Hygiene Measures:

Tightly fitting safety goggles

Wear nitrile or similar gloves, and coveralls or long sleeve shirt.

If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn. Use N100 respirators for limited exposure, use air-purifying respirator (APR) with high efficiency particulate air (HEPA) filters for prolonged exposure. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current safety and health requirements. The need for respiratory protection is not likely for short-term use in well ventilated areas. Good personal hygiene practice is essential, such as avoiding food, tobacco products, or other hand-tomouth contact when handling. Wash thoroughly after

handling.

### Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Molecular Weight:

Odor:

Odor Threshold:

Decomposition Temperature <sup>o</sup>C:

Freezing Point °C:

Initial Boiling Point OC:

Clear to opaque liquid, water based C2H3KO2: 98.14; C6H5O7K3: 306.39

Odorless

No information available

100 - 120

No information available Approximately 149

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Physical State:

pH:

Flash Point °C:

Auto-ignition Temperature <sup>o</sup>C:

Boiling Point/Range °C:

Melting Point/Range °C:

Flammability:

Flammability/Explosive Limits in Air °C:

Explosive Properties: Oxidizing Properties:

Volatile Component (%vol)

**Evaporation Rate:** Vapor Density: Vapor Pressure: Specific gravity:

Solubility:

Partition Coefficient:

Viscosity:

Liquid

Approximately 8.5

None None

149/141-155

C2H3KO2: 292; K3C6H5O7: 180

Not flammable

Upper - No: Lower - No

None None

Not Applicable

No information available No information available No information available Approximately 1.2 at 25 C

Soluble in water

No Information Available

Not Applicable

Note: C2H3KO2 - Potassium Acetate; C6H5O7K3 - Potassium Citrate

### Section 10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage and handling

conditions.

Reactivity:

Not reactive Possibility of Hazardous Reactions:

Under normal conditions of storage and handling,

hazardous reactions will not occur.

Incompatibles:

Strong acids and oxidizers, lime, inorganic bases. Avoid contact with aluminum, lead, tin, zinc, or other

alkali sensitive metals or alloys

Conditions to Avoid:

Storage or handling near incompatibles.

Hazardous Decomposition Products:

Heat of fire may release carbon dioxide, phosphorous

oxide, and acetic acid.

Possibility of Hazardous Reactions:

Hazardous Polymerization

None

Does not occur

### Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

Inhalation, skin, and eye contact.

Symptoms:

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**Immediate** 

Inhalation:

Eves:

Skin: Delayed:

Acute Toxicity:

Chronic Toxicity:

Short-term Exposure: Long-term Exposure:

Irritation, coughing.

Mild irritation.

Mild irritation.

Symptoms appear to be relatively immediate

Relatively non-toxic.

None known. None known

Acute Toxicity Values - Health

Chemical Name		LD50	LC50 (Inhalation)
	Oral	Dermal	
Water	NA	NA	NA ·
Potassium acetate	3250 mg/kg (rat)	NA	NA
Potassium citrate	176 mg/kg (dog)	NA	NA

Reproductive Toxicity:

This product's ingredients are not known to have

reproductive or teratogenic effects.

Target Organs and Effects (TOST):

Respiratory system (mild irritant). This product is a mild irritant to epithelial tissue,

(eyes, mucous membranes, skin) and may aggravate dermatitis. Ingestion may cause gastrointestinal injury. No information was found indicating the

product causes sensitization.

**Other Toxicity Categories** 

Chemical Name	Germ Cell Mutagenicity	Carcino- genicity	Repro- ductive	TOST Single Exp	TOST Repeated Exp	Aspiration
Water	None	None	None	None	None	None
Potassium acetate	None	None	None	None	None	None
Potassium citrate	None	None	None	None	None	None

### Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:

A weak environmental toxin. Specific negative impacts are

unknown.

Persistence/Degradability:

Soluble in water; moderate degradation in soil. Rapid

photolytic degradation in air.

Probability of rapid biodegradation:

Anaerobic biodegradation probability:

Bioaccummulation potential:

C2H3KO2 Est: 0.792 (Rapid); C6H5O7K3: 0.690 (Rapid) C2H3KO2 Est: 0.943 (Rapid); C6H5O7K3: 1.1142 (Rapid)

Low.

Bioconcentration factor:

C2H3KO2 Est: 3.16 L/kg (wet weight) (Low BCF) C6H5O7K3 Est: 3.16 L/kg (wet weight) (Low BCF)

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Bioaccummulation factor:

Mobility in soil:

C2H3KO2 Est: 0.929; C6H5O7K3 Est: 0.893

Slow evaporation rate; water soluble, may leach to

groundwater

Log Koc (Kow Method):

C2H3KO2 Est: -1.902; C6H5O7K3 Est: -0.411

Not available

Log Koa: Log Kow:

C2H3KO2 Est: -3.72; C6H5O7K3 Est -0.28

NOTE: C2H3KO2 - Potassium Acetate; C6H5O7K3 - Potassium Citrate

Other Adverse Ecological Effects:

No other known effects at this time

Aquatic Toxicity Values - Environment - Research

Chemical Name	Acute (LC50)	Chronic (LC50)
Water	N/A	N/A
Potassium acetate	298 mg/L Fish 96 hr (Pimephales promelas; 313 mg/L Crustaceans 48 hr	N/A
Potassium citrate	Not acutely toxic	Not acutely toxic

Aquatic Toxicity Values - Environment - Calculated Estimates

Chemical Name	Acute (LC50)	EC50
Water	N/A	N/A
Potassium acetate	N/A	4403 mg/L Gr. Algae 96 hr
Potassium citrate	3.14e+06 mg/L Fish 96 hr; 1.27e+05 mg/l Daphnid 48 hr;	2.33e+05 mg/L Gr. Algae 96 hr

### Section 13. DISPOSAL CONSIDERATIONS

Safe Handling

Use appropriate PPE when handling, and wash

thoroughly after handling (see Section 8).

Waste Disposal Considerations

Dispose in accordance with federal, state, and local

regulations.

Contaminated Packaging

Dispose in accordance with federal, state, and local

regulations.

### NOTES:

This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal laws or regulations. Used product may be altered or contaminated, creating different disposal considerations.

### Section 14. TRANSPORT INFORMATION

**UN Number:** 

NA

UN Proper Shipping Name:

NA

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Transport Hazard Class: NA
Packing Group: NA
Marine Pollutant?: NO

IATA Not regulated DOT Not regulated

### NOTES:

This product is not defined as a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, or by Transport Canada "Transportation of Dangerous Goods" regulations. This transportation information covers the CH 530-660 Wet Agent fire extinguisher agent as shipped in bulk containers and not when contained in fire extinguishers or fire extinguisher systems.

### Special Precautions for Shipping:

If shipped in a stored pressure-type fire extinguisher, and pressurized with a non-flammable, non-toxic inert expellant gas, the fire extinguisher is considered a hazardous material by the US Department of Transportation and Transport Canada. The proper shipping name shall be FIRE EXTINGUISHER and the UN designation is UN 1044. The DOT hazard class/division is LIMITED QUANTITY when pressurized to less than 241 psig and when shipped via highway or rail. UN Class 2.2. Non-Flammable Gas, when shipping via air. Packing Group – N/A

### Section 15. REGULATORY INFORMATION

International Inventory Status: All ingredients are on the following inventories

Country(ies)	Agency	Status
United States of America	TSCA	Yes
Canada	DSL	Yes
Europe	EINECS/ELINCS	Yes
Australia	AICS	Yes
Japan	MITI	Yes
South Korea	KECL	Yes

REACH Title XV	<b>/II Restriction</b>	is: No	information ava	ailable		4.5
Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on Label	Pollution Release and Transfer Registry (Class II)	Pollution Release and Transfer Registry (Class I)	Poison and Deleterious Substances Control Law
Water	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Potassium acetate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Potassium citrate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Component	ISHA – Harmful Substances Prohibited for	ISHA – Harmful Substances Requiring	Toxic Chemical Classification Listing (TCCL) –	Toxic Release Inventory (TRI) – Group I	Toxic Release Inventory (TRI) – Group II
	Manufacturing,	Permission	Toxic Chemicals	о.оср.	Group II

,	Importing, Transferring, or Supplying				
Water	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Potassium acetate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Potassium citrate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

### **European Risk and Safety phrases:**

**EU Classification:** 

XN

Irritant

R Phrases:

36/37/38

Irritating to eyes, respiratory system, and skin.

S Phrases:

22 26

28

Do not breath dust.

In case of contact with eyes, rinse immediately with

plenty of water and seek medical advice.

After contact with skin, wash immediately with plenty of water.

S36/37/39:

Wear suitable protective clothing, gloves and eye /face

protection.

S45:

In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible)

### **U.S. Federal Regulatory Information:**

### **SARA 313:**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) - This product does not contain and chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. None of the chemicals in this product are under SARA reporting requirements or have SARA threshold planning quantities (TPQs) or CERCLA reportable quantities (RQs), or are regulated under TSCA 8(d).

### SARA 311/312 Hazard Categories:

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
*-Sudden Release of Pressure Hazard-*	Yes
Reactive Hazard	No

<sup>\* -</sup> Only applicable if material is in a pressurized extinguisher.

### Clean Water/ Clean Air Act:

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) or Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) and Section 112 of the Clean Air Act Amendments of 1990.

### U.S. State Regulatory Information:

Chemicals in this product are covered under specific State regulations, as denoted below:

Page 10 of 11 Pages CH530/660 KP WET AGENT SDS Part Number 26926 Alaska - Designated Toxic and Hazardous Substances: None

California - Permissible Exposure Limits for Chemical Contaminants: None

Florida - Substance List: None

Illinois - Toxic Substance List: None

Kansas - Section 302/303 List: None

Massachusetts - Substance List: None

Minnesota - List of Hazardous Substances: None

Missouri – Employer Information/Toxic Substance List: None New Jersey – Right to Know Hazardous Substance List: None

North Dakota - List of Hazardous Chemicals, Reportable Quantities: None

Pennsylvania - Hazardous Substance List: None

Rhode Island - Hazardous Substance List: None

Texas - Hazardous Substance List: None

West Virginia - Hazardous Substance List: None

Wisconsin - Toxic and Hazardous Substances: None

California Proposition 65: No component is listed on the California Proposition 65 list.

### Other:

Mexico - Grade

No component listed

Canada - WHMIS Hazard Class

No component listed

### Section 16. OTHER INFORMATION

This SDS conforms to requirements under U.S., U.K., Canadian, Australian, and EU regulations or standards, and conforms to the proposed 2003 ANSI Z400.1 format. No modifications of this SDS are authorized by AMEREX Corporation. Questions or comments should be directed to AMEREX Corporation (See Section 1).

**Issuing Date** 

17-June-2012

**Revision Date** 

7-March-2019; Revision D

Revision Notes

None

The information herein is given in good faith but no warranty, expressed or implied, is made. Updated by William F. Garvin, CIH.

### Goof-Off PRO Strength

Goof Off Professional Strength VOC Compliant

Printed: 02/26/2016

Page: 1

Revision: 10/09/2015 Supersedes Revision: 08/31/2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 

Goof Off Professional Strength VOC Compliant

**Company Name:** 

W. M. Barr

2105 Channel Avenue

Phone Number: (901)775-0100

Memphis, TN 38113

Web site address:

www.wmbarr.com

**Emergency Contact:** 

3E 24 Hour Emergency Contact

(800)451-8346

Information:

W.M. Barr Customer Service

(800)398-3892

**Product Category:** 

General Purpose Adhesive Remover

Intended Use:

Mult-Purpose Remover for tar, ink, paint, adhesive, etc.

**Product Code:** 

FG603, FG603BULK, FG612, FG650, FG650SK, FG650LWS, FG650LDS, FG651, FG651BULK, FG651BULK2, FG651BULK3, FG653B, FG653BBLK, FG654, FG654BWS, FG654LWS, FG655B, FG655BUL, FG655BWS, FG657, FG683, FG690,

FG750, 2410B.4, FG661, FG661CAN

Additional Information

This product is regulated by the United States Consumer Product Safety Commission and is subject to certain labeling requirements under the Federal Hazardous Substances Act. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS). The product label also includes other important information, including directions for use, and should always be read in its entirety prior to using the product.

### 2. HAZARDS IDENTIFICATION

Flammable Liquids, Category 2

Acute Toxicity: Inhalation, Category 4

Serious Eye Damage/Eye Irritation, Category 2

Carcinogenicity, Category 2

Specific Target Organ Toxicity (single exposure), Category 1







**GHS Signal Word:** 

Danger

**GHS Hazard Phrases:** 

H225: Highly flammable liquid and vapor.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H351: Suspected of causing cancer (if inhaled).

H370: Causes damage to organs {ears, liver, kidneys, eyes, respiratory system, central

nervous system).

**GHS Precaution Phrases:** 

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood. P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P260: Do not breathe gas/mist/vapors/spray. P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area.

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P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes, Remove contact lenses, if present and easy to do. Continue rinsing.

P307+311: IF exposed: Call a POISON CENTER or doctor/physician. P308+313: IF exposed or concerned: Get medical attention/advice.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P321: Specific treatment see label.

P337+313: If eye irritation persists, get medical advice/attention. P370+378: In case of fire, use dry chemical powder to extinguish.

**GHS Storage and Disposal** 

GHS Response Phrases:

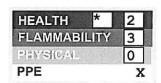
P403+235: Store in cool/well-ventilated place.

Phrases:

P405: Store locked up.

P501: Dispose of contents/container according to local, state and federal regulations.

Hazard Rating System:





HMIS:

**OSHA Regulatory Status:** 

**Potential Health Effects** (Acute and Chronic):

This material is classified as hazardous under OSHA regulations.

This product has not been tested as a whole to determine health effects. The health effects listed below are associated with the individual ingredients listed in Section 3.

### INHALATION:

High vapor concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, headaches, cyanosis, loss of consciousness and even death). Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Intentional misuse by deliberately concentrating and inhaling solvents may be harmful or fatal.

### EYES:

High vapor concentrations may cause irritation of the eyes. May cause eye burning pain, irritation, conjuctivitis, corneal vacuolation, and keratitis.

### SKIN:

Prolonged or repeated contact may cause drying, cracking, or irritation.

### INGESTION:

Harmful or fatal if swallowed. May cause nausea, vomiting, diarrhea and inflammation of the lungs. Irritating to the throat, mouth, and stomach. May produce central nervous system effects, which include dizziness, loss of balance and coordination, unconsciousness, coma and even death.

This product contain methanol, which can cause metabolic acidosis, blindness, seizures, and comma.

### CHRONIC OVEREXPOSURE EFFECTS:

Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Intentional misuse by deliberately concentrating and inhaling solvents may be harmful or fatal. Overexposure may cause

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liver and kidney injury.

TARGET ORGANS: eyes, respiratory system, liver, kidneys, central nervous system

PRIMARY ROUTES OF ENTRY: inhalation, ingestion, absorption

Medical Conditions Generally The following diseases or disorders may be aggravated by exposure to this product:

Aggravated By Exposure:

skin, eye, liver, kidney, nervous system, respiratory system

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS # Hazardous Components (Chemical Name)		Concentration	
67-64-1	Acetone {2-Propanone}	60.0 -100.0 %	
1330-20-7	Xylene (mixed isomers) {Benzene, dimethyl-}	<10.0 %	
100-41-4	Ethylbenzene {Ethylbenzol; Phenylethane}	< 5.0 %	
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	< 5.0 %	

Additional Chemical

Specific percentage of composition is being withheld as a trade secret.

Information

### 4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Skin:

Immediately begin washing the skin thoroughly with large amounts of water and mild soap, if available, while removing contaminated clothing. Seek medical attention if irritation persists.

Eyes:

Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes, then seek immediate medical attention.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Ingestion:

If swallowed, do NOT induce vomiting. Seek immediate medical attention. Call a physician, hospital emergency room, or poison control center immediately. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration.

Signs and Symptoms Of Exposure:

See Potential Health Effects.

Note to Physician:

Treatment of overexposure should be directed at the control of symptoms and the clinical

condition of the patient.

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### 5. FIRE FIGHTING MEASURES

Flammability Classification:

NFPA Class IB

Flash Pt:

1.00 F Method Used: Setaflash Closed Cup (Rapid Setaflash)

**Explosive Limits:** 

LFI: No data.

UFI: No data.

**Autoignition Pt:** 

No data.

Suitable Extinguishing Media: Carbon dioxide, dry chemical, foam and/or water fog.

Unsuitable Extinguishing

None known.

Media:

Fire Fighting Instructions:

Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

Flammable Properties and

Hazards:

Vapors are heavier than air and may travel along the ground or be moved by ventilation

and ignited by heat, sparks, flame, and other ignition sources distant from material

handling point.

### 6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or

Vapors may cause flash fire or ignite explosively.

Spilled:

Clean up: Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area. Use non-sparking tools. Use proper bonding and grounding methods for all equipment and processes. Keep out of waterways and bodies of water. Be cautious of vapors collecting in small enclosed spaces, sewers, low lying areas, confined spaces, etc.

Small spills: Take up with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable.

Large spills: Dike far ahead of spill for later disposal.

Waste Disposal: Dispose in accordance with applicable local, state and federal regulations.

### 7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:

Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

Do not use this product near any source of heat or open flame, furnace areas, pilot lights, stoves, etc.

Do not use in small enclosed spaces, such as basements and bathrooms. Vapors can accumulate and explode if ignited.

Do not spread this product over large surface areas because fire and health safety risks will increase dramatically.

Precautions To Be Taken in Storing:

Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at elevated temperatures.

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Other Precautions:

Keep away from heat, sparks and open flame. No smoking.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
67-64-1	Acetone {2-Propanone}	PEL: 1000 ppm	TLV: 500 ppm STEL: 750 ppm	No data.
1330-20-7	Xylene (mixed isomers) {Benzene, dimethyl-}	PEL: 100 ppm	TLV: 100 ppm STEL: 150 ppm	No data.
100-41-4	Ethylbenzene {Ethylbenzol; Phenylethane}	PEL: 100 ppm	TLV: 100 ppm STEL: 125 ppm	No data.
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.

Respiratory Equipment (Specify Type):

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH

approved respirator such as an air

purifying respirator with organic vapor cartridge. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow

all respirator manufacturer's instructions.

**Eve Protection:** 

Chemical goggles, also wear a face shield if a splashing hazard exists.

**Protective Gloves:** 

Appropriate chemical resistant gloves should be worn, such as nitrile rubber. Wear gloves with as much resistance to the chemical ingredients as possible. Other glove materials may provide protection. Glove selection should be based on chemicals being used and conditions of use. Consult your glove supplier for additional information.

Gloves contaminated with product should be discarded and not reused.

Other Protective Clothing:

To prevent skin contact wear protective clothing covering all exposed areas.

Various application methods can dictate the use of additional protective safety equipment, such as impermeable aprons to minimize exposure.

**Engineering Controls** (Ventilation etc.):

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

Work/Hygienic/Maintenance Practices:

Wash hands thoroughly after use and before eating, drinking, smoking, or using the restroom.

Do not eat, drink, or smoke in the work area.

Discard any clothing or other protective equipment that cannot be decontaminated.

Facilities storing or handling this material should be equipped with an emergency eyewash and safety shower.

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### PHYSICAL AND CHEMICAL PROPERTIES

**Physical States:** 

[ ] Gas [X] Liquid [ ] Solid

Appearance and Odor:

Water white, free and clear.

**Melting Point:** 

No data. 150.00 F

**Boiling Point: Autoignition Pt:** 

No data.

Flash Pt:

1.00 F Method Used: Setaflash Closed Cup (Rapid Setaflash)

**Explosive Limits:** 

LEL: No data.

UEL: No data.

Specific Gravity (Water = 1):

0.797 - 0.8021

Density:

6.65 LB/GL

Vapor Pressure (vs. Air or

No data.

mm Hg):

Vapor Density (vs. Air = 1):

> 1

**Evaporation Rate:** 

> 1

Solubility in Water:

Partial

Viscosity:

< 5 cps

Percent Volatile:

100.0 % by weight.

VOC / Volume:

20.0000 % WT

**Additional Physical** 

VOC (g/L): 161 g/L max

Information

### 10. STABILITY AND REACTIVITY

Stability:

Unstable [ ]

Stable [X]

Conditions To Avoid -

No data available.

Instability:

Incompatibility - Materials To Strong oxidizing agents.

Avoid:

Hazardous Decomposition or Carbon monoxide, carbon dioxide.

**Byproducts:** 

**Possibility of Hazardous** 

Will occur [ ]

Will not occur [X]

Reactions:

Conditions To Avoid -

None known

**Hazardous Reactions:** 

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### 11. TOXICOLOGICAL INFORMATION

**Toxicological Information:** 

This product has not been tested as a whole. Refer to section 2 for acute and chronic effects.

CAS# 67-64-1:

Chronic Toxicological Effects: Standard Draize Test, Eyes, Species: Rabbit, 20.00 MG, Severe.

Result:

Behavioral: Change in motor activity (specific assay).

Behavioral: Alteration of classical conditioning.

- American Journal of Ophthalmology., Ophthalmic Pub. Co., 435 N. Michigan Ave.,

Suite 1415, Chicago, IL 60611, Vol/p/yr: 29,1363, 1946

CAS# 1330-20-7:

Acute toxicity, LC50, Inhalation, Rat, 5000. PPM, 4 H.

Result:

Behavioral: Muscle contraction or spasticity.

Lungs, Thorax, or Respiration:Other changes.

- Raw Material Data Handbook, Vol.1: Organic Solvents, 1974., National Assoc. of Printing Ink Research Institute, Francis McDonald Sinclair Memorial Labor, Lehigh Univ.,

Bethlehem, PA 18015, Vol/p/yr: 1,123, 1974

Standard Draize Test, Eyes, Species: Rabbit, 5.000 MG, 24 H, Severe.

Result:

Behavioral: General anesthetic.

Behavioral: Somnolence (general depressed activity).

Behavioral: Irritability.

- "Sbornik Vysledku Toxixologickeho Vysetreni Latek A Pripravku,", Institut Pro Vychovu Vedoucicn P, Marhold, J.V., Institut Pro Vychovu Vedoucicn, Pracovniku Chemickeho,

Prumyclu Praha Czechoslovakia, Vol/p/yr: -,24, 1972

CAS# 100-41-4:

Tumorigenic Effects:, TCLo, Inhalation, Rat, 750.0 ppm.

Result:

Tumorigenic: Carcinogenic by RTECS criteria.

Kidney, Ureter, Bladder: Tumors.

Standard Draize Test, Eyes, Species: Rabbit, 500.0 MG, Severe.

Result:

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

total number of implants).

Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

- American Journal of Ophthalmology., Ophthalmic Pub. Co., 435 N. Michigan Ave.,

Suite 1415, Chicago, IL 60611, Vol/p/yr: 29,1363, 1946

Carcinogenicity/Other Information:

ACGIH A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

ACGIH A4 - Not Classifiable as a Human Carcinogen

IARC 2B - Possibly Carcinogenic to Humans

IARC 3: Not Classifiable as to Carcinogenicity in Humans.

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CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
67-64-1	Acetone {2-Propanone}	n.a.	n.a.	A4	n.a.
1330-20-7	Xylene (mixed isomers) {Benzene, dimethyl-}	n.a.	3	A4	n.a.
100-41-4	Ethylbenzene {Ethylbenzol; Phenylethane}	n.a.	2B	A3	n.a.
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	n.a.	n.a.	n.a.	n.a.

### 12. ECOLOGICAL INFORMATION

**General Ecological** 

This product has not been tested as a whole. Information below will be for individual

Information: ingredients.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** 

Dispose of waste at an approved hazardous waste treatment/disposal facility in

accordance with applicable local, provincial and federal regulations.

Do not place material in general trash.

Do not allow material to enter bodies of water or sewers.

### 14. TRANSPORT INFORMATION

### LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Paint Related Material

DOT Hazard Class:

3

FLAMMABLE LIQUID

**UN/NA Number:** 

UN1263

Packing Group:

11



### LAND TRANSPORT (Canadian TDG):

**TDG Shipping Name:** 

Paint Related Material

**Additional Transport** 

Information:

The shipper/supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

### 15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
67-64-1	Acetone {2-Propanone}	No	Yes 5000 LB	No
1330-20-7	Xylene (mixed isomers) {Benzene, dimethyl-}	No	Yes 100 LB	Yes
100-41-4	Ethylbenzene {Ethylbenzol; Phenylethane}	No	Yes 1000 LB	Yes
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	No	Yes 5000 LB	Yes

This material meets the EPA [X] Yes [] No Acute (immediate) Health Hazard 'Hazard Categories' defined [X] Yes [] No Chronic (delayed) Health Hazard

for SARA Title III Sections

[X] Yes [ ] No [ ] Yes [X] No

Fire Hazard

311/312 as indicated:

Sudden Release of Pressure Hazard

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[ ] Yes [X] No Reactive Hazard

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
67-64-1	Acetone {2-Propanone}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 4 Test; CA PROP.65: No
1330-20-7	Xylene (mixed isomers) {Benzene, dimethyl-}	CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Yes - Inventory; CA PROP.65: No
100-41-4	Ethylbenzene {Ethylbenzol; Phenylethane}	CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Yes - Inventory, 4 Test; CA PROP.65: Yes
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	CAA HAP, ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: Yes

### Regulatory Information:

### 16. OTHER INFORMATION

**Revision Date:** 

10/09/2015

Preparer Name:

W.M. Barr EHS Dept

(901)775-0100

Additional Information About No data available.

This Product:

**Company Policy or** 

Disclaimer:

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

# Green Premium Foam Soap



### 1. Identification

Product identifier

**GREEN PREMIUM FOAM SOAP** 

Other means of identification

SDS number

13SAM02004A

\* HIL0041103

Product code

HIL00411

Recommended use

Hand Soap

Recommended restrictions

This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

HILLYARD INDUSTRIES

Address 302 North Fourth St.

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or

accident involving chemicals)

### 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Not classified.

**Environmental hazards** 

Not classified.

**OSHA** defined hazards

Not classified.

Label elements

Hazard symbol

None.

Signal word

None.

Hazard statement

The mixture does not meet the criteria for classification.

Precautionary statement

Prevention

Avoid contact with eyes Observe good industrial hygiene practices.

Response

If skin irritation or rash occurs, discontinue use.

Storage

Store away from incompatible materials.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law in compliance with applicable federal, state and local

requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

None.

### 3. Composition/information on ingredients

Mixtures

Material name: GREEN PREMIUM FOAM SOAP

HIL00411 Version #: 02 Revision date: 03-23-2017 Issue date: 02-19-2015

Chemical name	Common name and synonyms	<b>CAS</b> number	%
Glycerine USP 99.7%		56-81-5	3 - < 5
Other components below re	portable levels		90 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Inhalation

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

If skin irritation or rash occurs: Get medical advice/attention.

Skin contact Eve contact

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Ingestion Rinse mouth. Get medical attention if symptoms occur. Direct contact with eyes may cause temporary irritation.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

None known.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

No special environmental precautions required.

7. Handling and storage

Precautions for safe handling

Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Material name: GREEN PREMIUM FOAM SOAP SDS US

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components Form Value Type Glycerine USP 99.7% (CAS PEL 5 mg/m3 Respirable fraction. 56-81-5) 15 mg/m3 Total dust. **Biological limit values** No biological exposure limits noted for the ingredient(s). Appropriate engineering Not available. controls Individual protection measures, such as personal protective equipment Eye/face protection Avoid contact with eyes. Skin protection Hand protection Not applicable.

General hygiene considerations

Other

Thermal hazards

Respiratory protection

Not applicable. Not applicable.

Not applicable.

Not applicable.

### 9. Physical and chemical properties

**Appearance** Clear, colorless liquid

Physical state Liquid. Form Liquid. Color Colorless.

Odor non-objectionable odor

Odor threshold -Not available

5 - 7

Melting point/freezing point Not applicable / Not available

Initial boiling point and boiling > 200 °F (> 93.33 °C) range

Flash point

> 212.0 °F (> 100.0 °C) Tag Closed Cup

**Evaporation rate** < 1 (ethyl ether = 1)

Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

Vapor pressure 17.53 mm Hg 0.6218 AIR=1 Vapor density Relative density 1.02 at 77°F

Solubility(ies)

Solubility (water) 100 % complete Partition coefficient Not available

(n-octanol/water)

Not available Auto-ignition temperature **Decomposition temperature** Not available **Viscosity** Not available

Other information

Density 8.52 - 8.60 lb/gal Not explosive. Explosive properties **Oxidizing properties** Not oxidizing. Percent volatile 89 - 92 % VOC 0%

Material name: GREEN PREMIUM FOAM SOAP

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

None known.

### 11. Toxicological information

Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Not known.

Skin corrosion/irritation

Not applicable.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

This product is not expected to cause reproductive or developmental effects.

Reproductive toxicity Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure

Aspiration hazard

None known.

Chronic effects

Prolonged inhalation may be harmful. None known.

12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product

Species

**Test Results** 

**GREEN PREMIUM FOAM SOAP** 

Aquatic

Crustacea

EC50

Daphnia

87445.8125 mg/l, 48 hours estimated

Material name: GREEN PREMIUM FOAM SOAP

HIL00411 Version #: 02 Revision date: 03-23-2017 Issue date: 02-19-2015

Components Species Test Results

Glycerine USP 99.7% (CAS 56-81-5)

Aquatic

Fish

LC50

Rainbow trout, donaldson trout

(Oncorhynchus mykiss)

51000 - 57000 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Glycerine USP 99.7%

-1.76

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Buyer

assumes all risk and liability associated with disposal of this product (original concentration or

dilution) in violation of applicable law.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment

requirements.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

### 15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List or Exempt.

This product is regulated by the FDA as an Over the Counter Drug Product. It is labeled in

accordance with FDA regulations.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Glycerine USP 99.7% (CAS 56-81-5)

Other Flavoring Substances with OSHA PEL's

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

Issue date

02-19-2015

Revision date

03-23-2017

Version #

02

**HMIS®** ratings

Health: 0

Flammability: 0 Physical hazard: 0

Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.

Material name: GREEN PREMIUM FOAM SOAP

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### Gum-Go

## The Cleaning Resources

### SAFETY DATA SHEET

### 1. Identification

**Product number** 

HIL0103055

Product identifier

GUM-GO

Company information

HILLYARD INC 302 North 4th Street

St. Joseph, MO 64501 United States

Company phone

816-383-8285

**Emergency telephone US** 

1-800-424-9300

Version #

01

Recommended use Recommended restrictions Not available.

None known.

2. Hazard(s) identification

Physical hazards

Flammable aerosols

Category 1

Liquefied gas

Gases under pressure

Health hazards

Not classified.

**OSHA** defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Extremely flammable aerosol. Contains gas under pressure; may explode if heated.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Response

If exposed or concerned: Get medical advice/attention.

Storage

Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding

50°C/122°F.

Disposal

Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

None.

### 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%	
Butane	•	106-97-8	60 - 80	
Propane		74-98-6	20 - 40	
Ethyl Alcohol	4	64-17-5	2.5 - 10	
Other components below re	eportable levels	ik	0.01 - 0.1	

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

No specific first aid measures noted.

Product name: GUM-GO

Ingestion

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed General information Not likely, due to the form of the product.

Direct contact with eyes may cause temporary irritation.

Provide general supportive measures and treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

General fire hazards

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

None known.

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Product name: GUM-GO

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

### Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000
--

Туре	Value
PEL	1900 mg/m3
	1000 ppm
PEL	1800 mg/m3
	1000 ppm
18	
Туре	Value
STEL	1000 ppm
STEL	1000 ppm
al Hazards	
Туре	Value
TWA	1900 mg/m3
	800 ppm
TWA	1900 mg/m3
	1000 ppm
TWA	1800 mg/m3
	1000 ppm '-
	PEL PEL Type STEL STEL al Hazards Type TWA TWA

**Biological limit values** 

Appropriate engineering

controls

No biological exposure limits noted for the ingredient(s).

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other

Wear suitable protective clothing.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

### 9. Physical and chemical properties

**Appearance** 

Physical state

Gas.

Form

Aerosol. Liquefied gas.

Color

Not available.

Odor

Not available.

Odor threshold

Not available.

рΗ

Not available.

Product name: GUM-GO

Melting point/freezing point

Not available.

Initial boiling point and boiling

170.6 °F (77 °C) estimated

range

Flash point

-156.0 °F (-104.4 °C) PROPELLANT estimated

**Evaporation rate** 

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

4.3 % estimated

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure Vapor density

Not available. Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature

699.8 °F (371 °C) estimated

Decomposition temperature

Not available.

Viscosity

Not available.

Other information

**Explosive properties** 

Not explosive.

**Oxidizing properties** 

Not oxidizing.

Specific gravity

0.605 estimated

### 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Chemical stability

Conditions to avoid

Material is stable under normal conditions. Hazardous polymerization does not occur.

Possibility of hazardous

reactions

Incompatible materials

Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

Hazardous decomposition

products

No hazardous decomposition products are known.

### 11. Toxicological information

Information on likely routes of exposure

Inhalation

No adverse effects due to inhalation are expected.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

**Acute toxicity** 

Product name: GUM-GO

Components	Species	Test Results
Butane (CAS 106-97-8)	И	3
<u>Acute</u>		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
Ethyl Alcohol (CAS 64-17-5)		
<u>Acute</u>		
Inhalation		
LC50	Cat	85.41 mg/l, 4.5 Hours
		43.68 mg/l, 6 Hours
	Mouse	> 60000 ppm
		79.43 mg/l, 134 Minutes
	Rat	> 115.9 mg/l, 4 Hours
		51.3 mg/l, 6 Hours
Oral		
LD50	Monkey	6000 mg/kg
	Mouse	10500 ml/kg
	Pig	> 5000 mg/kg
	Rat	10470 mg/kg
		7800 ml/kg
Propane (CAS 74-98-6)		
<u>Acute</u>		
Inhalation	*	
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
	2	658 mg/l/4h

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure

Product name: GUM-GO

### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components **Test Results** Species

Ethyl Alcohol (CAS 64-17-5)

Aquatic

Crustacea

EC50

Water flea (Daphnia magna)

7700 - 11200 mg/l, 48 hours

Fish

LC50

Fathead minnow (Pimephales promelas) > 100.1 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Butane 2.89 Ethyl Alcohol -0.31Propane 2.36

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

### 14. Transport information

DOT

UN number

UN1950

UN proper shipping name

Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

Class Subsidiary risk 2.1

Label(s)

2.1

Packing group

Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions Packaging exceptions N82 306

Packaging non bulk

None

Packaging bulk

None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking.

IATA

**UN number** 

UN1950

UN proper shipping name Transport hazard class(es) Aerosols, flammable

Class

2.1

Product name: GUM-GO

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Subsidiary risk

Label(s)

2.1

Packing group

Not applicable.

**Environmental hazards** 

No.

**ERG Code** 

10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only

Allowed with restrictions.

**Packaging Exceptions** 

LTD QTY

**IMDG** 

**UN number** 

UN1950

UN proper shipping name

**AEROSOLS** 

Transport hazard class(es) Class

2.1

Subsidiary risk

Label(s)

2.1

Packing group

Not applicable.

**Environmental hazards** 

No.

Marine pollutant **EmS** 

F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Packaging Exceptions

LTD QTY

Transport in bulk according to

Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

DOT



### IATA; IMDG



### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

Product name: GUM-GO

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

### **US** state regulations

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Butane (CAS 106-97-8)

### US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8) Ethyl Alcohol (CAS 64-17-5) Propane (CAS 74-98-6)

### US. New Jersey Worker and Community Right-to-Know Act

Butane (CAS 106-97-8) Ethyl Alcohol (CAS 64-17-5) Propane (CAS 74-98-6)

### US. Pennsylvania Worker and Community Right-to-Know Law

Butane (CAS 106-97-8) Ethyl Alcohol (CAS 64-17-5) Propane (CAS 74-98-6)

### US. Rhode Island RTK

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes

Product name: GUM-GO

Country(s) or region

Inventory name

On inventory (yes/no)\*

Korea

Existing Chemicals List (ECL)

New Zealand

New Zealand Inventory

No

**Philippines** 

Philippine Inventory of Chemicals and Chemical Substances

No

(PICCS)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

Issue date

02-18-2019

Version #

01

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

Revision information

Product and Company Identification: Alternate Trade Names

Product name: GUM-GO

# Lemon Furniture Polish

## The Cleaning Resource

### SAFETY DATA SHEET

### 1. Identification

**Product number** 

HIL0105255

**Product identifier** 

**LEMON FURNITURE POLISH** 

Company information

HILLYARD INC 302 North 4th Street

St. Joseph, MO 64501 United States

Company phone

816-383-8285

**Emergency telephone US** 

1-800-424-9300

Version #

01

Recommended use

Coating

Recommended restrictions

None known.

### 2. Hazard(s) identification

Physical hazards

Flammable aerosols

Category 1

Gases under pressure

Liquefied gas Category 1

Health hazards

Sensitization, skin

**OSHA** defined hazards

Not classified.

Label elements



Signal word

Hazard statement

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May cause an

allergic skin reaction.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid

breathing gas. Contaminated work clothing must not be allowed out of the workplace. Wear

protective gloves.

Response

If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Storage

Protect from sunlight. Store in a well-ventilated place. Do not expose to

temperatures exceeding 50°C/122°F.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

None.

### 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%	
Butane		106-97-8	2.5 - 10	
Propane		74-98-6	1 - 2.5	
Propane Orange Terpenes		68647-72-3	0.1 - 1	
Other components below re	eportable levels		90 - 100	

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Product name: LEMON FURNITURE POLISH

### 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

In case of eczema or other skin disorders: Seek medical attention and take along these

instructions.

Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

Not likely, due to the form of the product.

Most important

symptoms/effects, acute and

delayed

May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

treatment needed General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

protect themselves. Wash contaminated clothing before reuse.

None known.

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when

exposed to heat or flame.

### Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing gas. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

Product name: LEMON FURNITURE POLISH

### 7. Handling and storage

### Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Avoid breathing gas. Avoid contact with eyes, skin, and clothing. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Level 1 Aerosol.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Type

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

Value

### 8. Exposure controls/personal protection

### Occupational exposure limits

Components

Propane (CAS 74-98-6)	PEL	1800 mg/m3				
(0.12.1, 0.07)	, <del></del>	1000 ppm				
US. ACGIH Threshold Lin	nit Values	H.				
Components	Туре	Value				
Butane (CAS 106-97-8)	STEL	1000 ppm				
US. NIOSH: Pocket Guide	to Chemical Hazards					
Components	Туре	Value				
Butane (CAS 106-97-8)	TWA	1900 mg/m3				
		800 ppm				
Propane (CAS 74-98-6)	TWA	1800 mg/m3				
		1000 ppm				
Biological limit values	No biological exposure limits noted	for the ingredient(s).				
Appropriate engineering controls	should be matched to conditions. If or other engineering controls to mai	O air changes per hour) should be used. Ventilation rates applicable, use process enclosures, local exhaust ventilation, intain airborne levels below recommended exposure limits. If olished, maintain airborne levels to an acceptable level.				
ndividual protection measure	es, such as personal protective equipr	ment				
Eye/face protection	Face shield is recommended. Wear	safety glasses with side shields (or goggles).				
Skin protection		· ·				
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.					
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.					
Respiratory protection	If permissible levels are exceeded u air-supplied respirator.	ise NIOSH mechanical filter / organic vapor cartridge or an				
Thermal hazards	Wear appropriate thermal protective	e clothing, when necessary.				
General hygiene considerations	after handling the material and before	observe good personal hygiene measures, such as washing re eating, drinking, and/or smoking. Routinely wash work o remove contaminants. Contaminated work clothing should no				

Product name: LEMON FURNITURE POLISH

be allowed out of the workplace.

### 9. Physical and chemical properties

**Appearance** 

Physical state

Gas.

Form

Aerosol. Liquefied gas.

Color

Not available.

Odor

Not available.

Odor threshold

Not available.

Property Commence

ivot available.

рН

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling

212 °F (100 °C) estimated

range

Flash point

-156.0 °F (-104.4 °C) propellant estimated

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient

Not available.

(n-octanol/water)

Not available.

Auto-ignition temperature Decomposition temperature

Not available.

Viscosity

Not available.

Other information

**Explosive properties** 

Not explosive.

Heat of combustion (NFPA

30B)

1.82 kJ/g estimated

Oxidizing properties Specific gravity Not oxidizing. 0.927 estimated

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** 

Material is stable under normal conditions.

Possibility of hazardous

Hazardous polymerization does not occur.

reactions
Conditions to avoid

Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Trodi. Avoid temperatures exceeding the mash point. Contact with incompatible mater

incompatible materials

Strong oxidizing agents.

Hazardous decomposition

No hazardous decomposition products are known.

products

### 11. Toxicological information

Information on likely routes of exposure

Inhalation

No adverse effects due to inhalation are expected.

Skin contact

May cause an allergic skin reaction.

Product name: LEMON FURNITURE POLISH

Eye contact

Direct contact with eyes may cause temporary irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the

May cause an allergic skin reaction. Dermatitis. Rash.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity

May cause an allergic skin reaction.

Components	Species	Test Results
Butane (CAS 106-97-8)		
<u>Acute</u>		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
Propane (CAS 74-98-6)		
Acute		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

658 mg/l/4h

mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not likely, due to the form of the product.

12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

2.89

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Butane

2.36 Propane

Product name: LEMON FURNITURE POLISH

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

### 14. Transport information

DOT

**UN number** 

UN1950

UN proper shipping name

Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

Class Subsidiary risk 2.1

Label(s)

2.1

Packing group

Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions Packaging exceptions N82 306

Packaging non bulk Packaging bulk

None None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking.

### IATA

UN number

UN1950

UN proper shipping name

Aerosols, flammable

Transport hazard class(es)

Class

2.1

Subsidiary risk

Label(s)

2.1 Not applicable.

Packing group **Environmental hazards** 

No.

**ERG Code** 

10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Allowed with restrictions.

Cargo aircraft only Packaging Exceptions

LTD QTY

IMDG

**UN number** 

UN1950

UN proper shipping name

**AEROSOLS** 

Transport hazard class(es) Class

2.1

Subsidiary risk

Label(s)

None

Packing group

Not applicable.

Product name: LEMON FURNITURE POLISH

**Environmental hazards** 

Marine pollutant

No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Packaging Exceptions

LTD QTY

F-D, S-U

Transport in bulk according to Annex II of MARPOL 73/78 and Not applicable.

the IBC Code

DOT



IATA; IMDG



General information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

Product name: LEMON FURNITURE POLISH

### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

### US state regulations

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Butane (CAS 106-97-8)

### US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

### US. New Jersey Worker and Community Right-to-Know Act

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

### US. Pennsylvania Worker and Community Right-to-Know Law

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

### US. Rhode Island RTK

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

### US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

### 16. Other information, including date of preparation or last revision

Issue date

02-18-2019

Version #

01

Product name: LEMON FURNITURE POLISH

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Product name: LEMON FURNITURE POLISH

## Markonex Gel

### **SAFETY DATA SHEET**

### SECTION 1) CHEMICAL PRODUCT AND MANUFACTURER'S IDENTIFICATION

Product ID:

494805

**Product Name:** 

MARKONEX GEL

**Revision Date:** 

Oct 09, 2018

**Date Printed:** 

Oct 09, 2018

Version:

2.0

Supersedes Date:

Nov 15, 2016

Manufacturer's Name:

Zenex International

Address:

1 Zenex Circle Cleveland, OH, US, 44146

**Emergency Phone:** 

1-800-535-5053

Information Phone Number: (440)-232-4155

Fax:

Product/Recommended Uses: Gel Vandal Remover

### **SECTION 2) HAZARDS IDENTIFICATION**

### Classification

Aerosols Category 1

Aspiration Hazard - Category 1

Eye Irritation - Category 2A

Gases Under Pressure Liquefied Gas

Reproductive Toxicity - Category 2 (The Unborn Child)

Skin Irritation - Category 2

Specific Target Organ Toxicity - Repeated Exposure - Category 2

Specific Target Organ Toxicity -Single Exposure (Narcotic Effects) - Category 3

### **Pictograms**









Signal Word

Danger

### **Hazardous Statements - Physical**

H222 - Extremely flammable aerosol

H280 - Contains gas under pressure; may explode if heated

### **Hazardous Statements - Health**

H304 - May be fatal if swallowed and enters airways

H319 - Causes serious eye irritation

H361 - Suspected of damaging the unborn child.

H315 - Causes skin irritation

H373 - May cause damage to organs through prolonged or repeated exposure.

### **Precautionary Statements - General**

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.

### **Precautionary Statements - Prevention**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves, protective clothing, eye protection, and face protection.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe mist, vapors, or spray.
- P271 Use only outdoors or in a well-ventilated area.

### **Precautionary Statements - Response**

- P308 + P313 IF exposed or concerned: Get medical attention.
- P314 Get medical attention if you feel unwell.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P331 Do NOT induce vomiting.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical attention.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P332 + P313 If skin irritation occurs: Get medical attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER or doctor if you feel unwell.

### **Precautionary Statements - Storage**

- P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- P405 Store locked up.
- P403 Store in a well-ventilated place.

### Precautionary Statements - Disposal

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

### **SECTION 3) COMPOSITION, INFORMATION ON INGREDIENTS**

	CAS	Chemical Name	% By Weight
	0000108-88-3	TOLUENE	20% - 40%
	0000067-64-1	ACETONE	10% - 20%
	0068920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated	2.5% - 10%
	0000106-97-8	BUTANE	2.5% - 10%
	0000123-42-2	DIACETONE ALCOHOL	2.5% - 10%
)	0064742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE	2.5% - 10%

0000064-17-5

ETHYL ALCOHOL

2.5% - 10%

0000074-98-6

**PROPANE** 

2.5% - 10%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

### SECTION 4) FIRST-AID MEASURES

### Inhalation

Remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breathing has stopped. Get medical attention.

### Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

### Skin Contact

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

### Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache: Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolongedexposure may cause chronic effects.

### **SECTION 5) FIRE-FIGHTING MEASURES**

### Suitable Extinguishing Media

Alcohol resistant foam. Powder. Carbon dioxide (CO2).

### Unsuitable Extinguishing Media

Do not use water jet as an extinguisher, as this will spread the fire.

### Specific Hazards in Case of Fire

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

### **Fire-Fighting Procedures**

Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat.

### **Special Protective Actions**

Wear goggles and use a self-contained breathing apparatus.

### **SECTION 6) ACCIDENTAL RELEASE MEASURES**

### **Emergency Procedure**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Recommended Equipment

Wear appropriate protective equipment (see Section 8).

### **Personal Precautions**

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use explosion proof equipment. Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

### **Environmental Precautions**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

### **SECTION 7) HANDLING AND STORAGE**

### General

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill,grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe mist, spray, or vapor. Avoid contact with eyes, skin, and clothing. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only inwell-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

### **Ventilation Requirements**

Use in a well-ventilated place.

### Storage Room Requirements

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

### SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

### **Eye Protection**

Safety glasses with side shields should be used if indicated. Eye wash and safety showers in the workplace are recommended.

### **Skin Protection**

Use solvent-resistant protective gloves for prolonged or repeated contact,

### **Respiratory Protection**

Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of liquid particles and vapor. In confined areas, use an approved air line respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

### Appropriate Engineering Controls

Ventilation should be sufficient to prevent inhalation of any vapors.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinoger
ACETONE	1000	2400			1			250	590			
BUTANE								800	1900		-	-
DIACETONE ALCOHOL	50	240			1			50	240			
ETHYL ALCOHOL	1000	1900			1			1000	1900			
ISOPARAFFINIC PETROLEUM DISTILLATE	500	2000			1							
PROPANE	1000	1800			1			1000	1800			

TOLUENE	200 (a)/ 300 ceiling	0.2	500ppm /10 minutes	1,2	100	375	150	560	
			(a)						

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)
ACETONE	250		500	
BUTANE	1000			
DIACETONE ALCOHOL	50	238		
ETHYL ALCOHOL			1000	
ISOPARAFFINIC PETROLEUM DISTILLATE				
PROPANE	See Appendix F: Minimal Oxygen Content			
TOLUENE	20	0.2		

(C) - Ceiling limit

### **SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**

### **Physical and Chemical Properties**

ili	Density Density VOC % VOC	6.90900 lb/gal 3.35086 lb/gal 48.50000%
	Appearance	Gas, Aerosol
	Odor Threshold	N.A.
	Odor Description	N.A.
	рН	N.A.
	Water Solubility	N.A.
	Flammability	Flash point below 73°F/23°C
	Flash Point Symbol	N.A.
	Flash Point	-156°F (-104.4°C) Propellant
	Viscosity	N.A.
	Lower Explosion Level	N.A.
	Upper Explosion Level	N.A.
	Vapor Pressure	40 psig @20°C estimated
	Melting Point	N.A.
	Freezing Point	N.A.
	Low Boiling Point	180.6°F (82.55°C) estimated
	High Boiling Point	N.A.
	Heat of combustion (NFPA 30B)	22.14 kJ/g estimated
	Auto Ignition Temp	885.38°F (474.1°C) estimated
	Evaporation Rate	N.A.

### SECTION 10) STABILITY AND REACTIVITY

### Stability

The product is stable under normal storage conditions.

### **Conditions to Avoid**

Keep away from heat, sparks, extreme temperature, flame, other sources of ignition and incompatible materials.

### Incompatible Materials

Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

### Hazardous Reactions/Polymerization

None known,

### **Hazardous Decomposition Products**

None known.

### **SECTION 11) TOXICOLOGICAL INFORMATION**

### Skin Corrosion/Irritation

Causes skin irritation

### Classification of the substance or mixture

There is no ecological data available for this product.

### Serious Eye Damage/Irritation

Causes serious eye irritation

### Carcinogenicity

No data available

### **Germ Cell Mutagenicity**

No data available

### Reproductive Toxicity

Suspected of damaging the unborn child.

### Respiratory/Skin Sensitization

No data available

### Specific Target Organ Toxicity - Single Exposure

May cause drowsiness or dizziness

### Specific Target Organ Toxicity - Repeated Exposure

May cause damage to organs through prolonged or repeated exposure.

### Aspiration Hazard

May be fatal if swallowed and enters airways

### **Acute Toxicity**

No data available

### Potential Health Effects - Miscellaneous

0000064-17-5 ETHYL ALCOHOL

The following medical conditions may be aggravated by exposure: liver disease. Tests in some laboratory animals indicate this compound may have embryotoxic activity. Tests in animals demonstrate reproductive toxicity. Ingestion may cause any of the following: stupor (central nervous system depression), gastrointestinal irritation. If absorbed through the skin, may be: harmful.

0000067-64-1 ACETONE

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

### 0000108-88-3 TOLUENE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, respiratory system, skin. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

### 0000123-42-2 DIACETONE ALCOHOL

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: cardiovascular system, central nervous system, eyes, respiratory system, skin, red blood cells. Overexposure may cause damage to any of the following organs/systems: kidneys, liver, red blood cells. Tests for mutagenic activity in bacterial or mammalian cell cultures have been inconclusive.

### **Chronic Exposure**

### 0000108-88-3 TOLUENE

TERATOGENIC EFFECTS: Toluene has been Classified as POSSIBLE for humans.

```
0000064-17-5
                  ETHYL ALCOHOL
  LC50 (mouse): Approximately 21000 ppm (4-hour exposure); cited as 39 g/m3 (4-hour exposure) (1, unconfirmed)
  LD50 (oral, rat): 7060 mg/kg (41); 10600 mg/kg (41); 13660 mg/kg (37)
  LD50 (oral, mouse): 3450 mg/kg (1, unconfirmed)
  LD50 (oral, guinea pig): 5560 mg/kg (37)
0000108-88-3
                  TOLUENE
  LC50 (rat): 8800 ppm (4-hour exposure) (2)
  LC50 (rat): 6000 ppm (6-hour exposure) (3)
  LD50 (oral, rat): 2600 to 7500 mg/kg (3,5,11,17)
  LD50 (oral, neonatal rat): less than 870 mg/kg (3)
  LD50 (dermal, rabbit): 12,225 mg/kg (reported as 14.1 ml/kg) (1)
0000067-64-1
                  ACETONE
  LC50 (male rat): 30000 ppm (4-hour exposure); cited as 71000 mg/m3 (4-hour exposure) (29)
  LC50 (male mouse): 18600 ppm (4-hour exposure); cited as 44000 mg/m3 (4-hour exposure) (29)
  LD50 (oral, female rat): 5800 mg/kg (24)
  LD50 (oral, mature rat): 6700 mg/kg (cited as 8.5 mL/kg) (31)
  LD50 (oral, newborn rat): 1750 mg/kg (cited as 2.2 mL/kg) (31)
  LD50 (oral, mouse): 3000 mg/kg (32,unconfirmed)
  LD50 (dermal, rabbit): Greater than 16000 mg/kg cited as 20 mL/kg) (30)
0000106-97-8
  LC50 (mouse): 202000 ppm (481000 mg/m3) (4-hour exposure); cited as 680 mg/L (2-hour exposure) (9)
  LC50 (rat): 276000 ppm (658000 mg/m3) (4-hour exposure); cited as 658 mg/L (4-hour exposure) (9)
0000123-42-2
                 DIACETONE ALCOHOL
 LD50 (oral, rat): 4000 mg/kg (12)
```

### SECTION 12) ECOLOGICAL INFORMATION

### Toxicity

No data available

### Persistence and Degradability

0000067-64-1 ACETONE

91% readily biodegradable, Method: OECD Test Guideline 301B

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

Expected to be inherently biodegradable. The volatile constituents will oxidize rapidly by photochemical reactions in air.

### **Bio-Accumulative Potential**

0000067-64-1 ACETONE Does not bioaccumulate

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE Contains constituents with the potential to bio accumulate.

### Partition coefficient n-octanol / water (log Kow)

Acetone

-0.24

Butane

2.89 -0.098

Diacetone Alcohol Ethyl Alcohol

-0.31

Propane

2.36

Toluene

2.73

### **Mobility in Soil**

### 0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

Floats on water. Contains volatile constituents. Evaporates within a day from water or soil surfaces. Large volumes may penetrate soil and could contaminate groundwater.

### Other Adverse Effects

No data available.

### SECTION 13) DISPOSAL CONSIDERATIONS

### Waste Disposal

Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

### **SECTION 14) TRANSPORT INFORMATION**

### **U.S. DOT Information**

UN number: UN1950

Proper shipping name: Aerosols, flammable, (each not exceeding 1 L capacity) (LTD QTY)

Hazard class: 2.1

Packaging group: No Data Available

Hazardous substance (RQ): No Data Available Toxic-Inhalation Hazard: No Data Available

Marine Pollutant: No Data Available

Note / Special Provision: No Data Available

### **IMDG** Information

UN number: UN1950

Proper shipping name: Aerosols, flammable, (each not exceeding 1 L capacity) (LTD QTY)

Hazard class:2.1

Packaging group: No Data Available Marine Pollutant: No Data Available

Note / Special Provision: No Data Available

### **IATA Information**

UN number: UN1950 Hazard class: 2,1

Packaging group: No Data Available

Proper shipping name: Aerosols, flammable, (each not exceeding 1 L capacity) (N/A)

Note / Special Provision: No Data Available

### **SECTION 15) REGULATORY INFORMATION**

CAS	Chemical Name	% By Weight	Regulation List
0000108-88-3	TOLUENE	20% - 40%	SARA313, CERCLA,HAPS,SARA312,VOC,TSCA,RCRA,ACGIH,CA_Prop65 - California Proposition 65,OSHA
0000067-64-1	ACETONE	10% - 20%	CERCLA,SARA312,TSCA,RCRA,ACGIH,OSHA
0068920-66-1	Alcohols, C16-18 and C18- unsatd., ethoxylated	2.5% - 10%	SARA312,TSCA
0000106-97-8	BUTANE	2.5% - 10%	SARA312,VOC,TSCA,ACGIH
0000123-42-2	DIACETONE ALCOHOL	2.5% - 10%	SARA312,VOC,TSCA,ACGIH,OSHA
0064742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE	2.5% - 10%	SARA312,VOC,TSCA,OSHA
0000064-17-5	ETHYL ALCOHOL	2.5% - 10%	SARA312,VOC,TSCA,ACGIH,OSHA
0000074-98-6	PROPANE	2.5% - 10%	SARA312,VOC,TSCA,ACGIH,OSHA

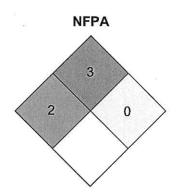
### **SECTION 16) OTHER INFORMATION**

### Glossary

\* There are points of differences between OSHA GHS and UN GHS. In 90% of the categories, they can be used interchangeably, but for the Skin Corrosion/Irritant Category and the Specific Target Organ Toxicity (Single and Repeated Exposure) Categories. In these cases, our system will say UN GHS.

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

## HMIS Health / 2 FLAMMABILITY 3 Physical Hazard 0 Personal Protection B



### (\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

### DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

## Neutralizer

## The Cleaning Resource

## SAFETY DATA SHEET

## 1. Identification

Product identifier

**NEUTRALIZER** 

Other means of identification

SDS number

584N-165A

Product code

HIL00818

Recommended use

Floor Cleaner

Recommended restrictions

For Labeled Use Only

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

HILLYARD INDUSTRIES

Address

302 North Fourth St. St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax E-mail (816) 383-8485

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

\*HIL0081825

involving chemicals)

## 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Acute toxicity, oral

Category 4

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2A

**Environmental hazards** 

Hazardous to the aquatic environment, acute

Category 3

Hazardous to the aquatic environment,

Category 3

long-term hazard

**OSHA** defined hazards

Not classified.

Label elements



Signal word

Warning

Hazard statement

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid

release to the environment. Wear protective gloves and eye/face protection.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage

Keep container tightly closed. Store away from incompatible materials.

Material name: NEUTRALIZER

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry container for recycling or reconditioning.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

## 3. Composition/information on ingredients

## **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
ETHYLENEDIAMINE TETRAACETIC ACID		60-00-4	10 - < 20
POTASSIUM HYDROXIDE		1310-58-3	3 - < 5
2-methoxymethylethoxy propanol [DPM]		34590-94-8	1 - < 3
Alcohols (C12-15 In, Saturated) Ethoxylate		68131-39-5	1 - < 3
Other components below reportable le	evels		70 - < 80

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

If swallowed, rinse mouth with water (only if the person is conscious). If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell. Do not induce vomiting without advice from poison control center.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed General information Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions

Specific methods General fire hazards Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

## Methods and materials for containment and cleaning up

This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Value

## 8. Exposure controls/personal protection

## Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 L	imits for Air Contaminants (29 CFR 1910.1000)
Components	Type

Components	туре	value	
2-methoxymethylethoxy propanol [DPM] (CAS 34590-94-8)	PEL	600 mg/m3	
	#	100 ppm	
US. ACGIH Threshold Limit Values	S		
Components	Туре	Value	
2-methoxymethylethoxy propanol [DPM] (CAS 34590-94-8)	STEL	150 ppm	
	TWA	100 ppm	
POTASSIUM HYDROXIDE (CAS 1310-58-3)	Ceiling	2 mg/m3	
US. NIOSH: Pocket Guide to Chem	nical Hazards		
Components	Туре	Value	
2-methoxymethylethoxy propanol [DPM] (CAS 34590-94-8)	STEL	900 mg/m3	
		150 ppm	
	TWA	600 mg/m3	
		100 ppm	
POTASSIUM HYDROXIDE (CAS 1310-58-3)	Ceiling	2 mg/m3	

## **Biological limit values**

No biological exposure limits noted for the ingredient(s).

## Exposure guidelines

## US - California OELs: Skin designation

2-methoxymethylethoxy propanol [DPM] (CAS 34590-94-8)

Can be absorbed through the skin.

## US - Tennessee OELs: Skin designation

2-methoxymethylethoxy propanol [DPM] (CAS 34590-94-8)

Can be absorbed through the skin.

Material name: NEUTRALIZER

SDS US

HIL00818 Version #: 03 Revision date: 07-23-2019 Issue date: 12-22-2014

## US ACGIH Threshold Limit Values: Skin designation

2-methoxymethylethoxy propanol [DPM] (CAS

34590-94-8)

Can be absorbed through the skin.

## US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-methoxymethylethoxy propanol [DPM] (CAS

Can be absorbed through the skin.

34590-94-8)

## US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-methoxymethylethoxy propanol [DPM] (CAS

Can be absorbed through the skin.

34590-94-8)

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

## Individual protection measures, such as personal protective equipment

Eve/face protection

Avoid contact with eyes. Where splashing of concentrate is a concern, use protective glasses with

side shield

Skin protection

Hand protection

Not normally needed. For prolonged or repeated skin contact use suitable protective gloves.

Other

None normally required. If unable to avoid prolonged or repeated contact with skin, wear

impervious clothing.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards

None known.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

Appearance

Clear, blue liquid.

Physical state

Liquid.

Form

Liquid.

Color

Blue

Odor

Non-objectionable,

Odor threshold

Not available

6.25 - 7.00

Melting point/freezing point

Not applicable / Not available

Initial boiling point and boiling

209 °F (98.33 °C)

range

Flash point

> 200.0 °F (> 93.3 °C) Tag Closed Cup

Evaporation rate

< 1 (ethyl ether = 1)

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

17.48 mm Hg

Vapor density

0.745 Air =1

Relative density

1.118 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient (n-octanol/water)

Not available

Auto-ignition temperature

Not available

**Decomposition temperature** 

Not available

Material name: NEUTRALIZER

Viscosity

Not available

Other information

Density

9.31 lb/gal

**Explosive properties** 

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

74 - 75 %

VOC

2 % CARB VOC 2.8 % EPA VOC

## 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye irritation.

Ingestion

Harmful if swallowed.

Symptoms related to the

physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain.

## Information on toxicological effects

Acute toxicity

Harmful if swallowed.

Product

Species

**Test Results** 

## NEUTRALIZER

<u>Acute</u>

Oral

LD50

Mouse

202.4 mg/kg

Components

Species

**Test Results** 

## 2-methoxymethylethoxy propanol [DPM] (CAS 34590-94-8)

Acute

Dermal

LD50

Rabbit

9.5 g/kg

Oral

LD50

Rat

5.35 g/kg

## ETHYLENEDIAMINE TETRAACETIC ACID (CAS 60-00-4)

**Acute** 

Oral

LD50 Mouse 30 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eve damage/eve

Causes serious eye irritation.

irritation

## Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Material name: NEUTRALIZER

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

Not classified.

repeated exposure Aspiration hazard

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** 

Harmful to aquatic life with long lasting effects.

**Test Results** Product Species

**NEUTRALIZER** 

Aquatic

Acute

Fish

LC50

Fish

1101.8182 mg/l, 96 hours

**Test Results** 

Components **Species** Alcohols (C12-15 In, Saturated) Ethoxylate (CAS 68131-39-5)

Aquatic

Crustacea

EC50

Water flea (Ceriodaphnia dubia)

0.37 - 0.43 ma/l, 48 hours

Fish

LC50

Channel catfish (Ictalurus punctatus)

1.04 - 1.39 mg/l, 96 hours

ETHYLENEDIAMINE TETRAACETIC ACID (CAS 60-00-4)

Aquatic

Crustacea

EC50

Water flea (Daphnia magna)

113 mg/l, 48 hours

Fish

LC50

Bluegill (Lepomis macrochirus)

34 - 62 mg/l, 96 hours

POTASSIUM HYDROXIDE (CAS 1310-58-3)

Aquatic

Fish

LC50

Western mosquitofish (Gambusia affinis) 80 mg/l, 96 hours

Persistence and degradability Bioaccumulative potential

No data is available on the degradability of this product.

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations. Buyer assumes all risk and liability associated with

disposal of this product (original concentration or dilution) in violation of applicable law.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

## Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

## 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to

Not established.

Annex II of MARPOL 73/78 and

the IBC Code

## 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List or Exempt.

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ETHYLENEDIAMINE TETRAACETIC ACID (CAS

Listed.

60-00-4)

POTASSIUM HYDROXIDE (CAS 1310-58-3)

Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

categories

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

## Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

## International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada

Domestic Substances List (DSL)

Yes

Canada

Non-Domestic Substances List (NDSL)

No

Material name: NEUTRALIZER

SDS US

Country(s) or region

Inventory name

On inventory (yes/no)\*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date

12-22-2014

Revision date

07-23-2019

Version #

03

HMIS® ratings

Health: 2

Flammability: 0 Physical hazard: 0

Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

Revision information

Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Ingredients Exposure controls/personal protection: Thermal hazards Physical & Chemical Properties: Multiple Properties Physical and chemical properties: Appearance Stability and reactivity: Conditions to avoid Toxicological Information: Toxicological Data

Ecological Information: Ecotoxicity Ecological information: Ecotoxicity

Disposal considerations: Disposal instructions
Disposal considerations: Hazardous waste code
Regulatory information: California Proposition 65

GHS: Classification

# Non-Acid Restroom Cleaner #19



## SAFETY DATA SHEET

## 1. Identification

**Product identifier** 

NON-ACID RESTROOM DISINFECTANT/CLEANER

Other means of identification

SDS number

584N-154B

Product code

HIL00819

\*HIL0081925

Product registration

number

1839-169-1658

Recommended use

Bathroom Cleaner For Labeled Use Only

Recommended restrictions

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

HILLYARD INDUSTRIES

Address

302 North Fourth St. St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

## 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Skin corrosion/irritation

Category 2

Category 1

Environmental hazards

Hazardous to the aquatic environment, acute

Category 2

hazard

Hazardous to the aquatic environment,

Serious eye damage/eye irritation

Category 2

long-term hazard

**OSHA** defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Causes skin irritation. Causes serious eye damage. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves. Wear

eye protection/face protection.

Response

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated

clothing and wash before reuse. Collect spillage.

Storage

Store away from incompatible materials.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL – Non-refillable container. Do not reuse or refill this container. For containers 2 gallons or less with a one-way opening that doesn't allow containers to be rinsed: Replace cap and discard in trash. Offer for recycling if available.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

## 3. Composition/information on ingredients

## **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Alkyl dimethyl benzyl ammonium chloride (C12-16)	٠	68424-85-1	1 - < 3
Octyl decyl dimethyl ammonium chloride		32426-11-2	1 - < 3
Didecyl dimethyl ammonium chloride		7173-51-5	<1
Dioctyl dimethyl ammonium chloride		5538-94-3	<1
Other components below reportable	levels		90 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth

thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods

General fire hazards

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This product is miscible in water. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all

environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**Environmental precautions** 

7. Handling and storage

Precautions for safe handling Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid

prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE - Store in original container in a cool (temperature no lower than 50°F or higher than 120°F), dry and locked storage area inaccessible to children.

## 8. Exposure controls/personal protection

## Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

## Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes. Where splashing of concentrate is a concern, use protective glasses with

side shield

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

Not normally required with adequate ventilation. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

None known.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

Appearance

Clear, dark blue liquid.

Physical state Form

Liquid. Liquid.

Color

Dark blue.

Odor

Floral fragrance

Material name: NON-ACID RESTROOM DISINFECTANT/CLEANER

SDS US

Not available Odor threshold

pH 6.00 - 7.00 Concentrate

Melting point/freezing point Not applicable / Not available

Initial boiling point and boiling

range

202 °F (94.44 °C)

> 200.0 °F (> 93.3 °C) Tag Closed Cup Flash point

**Evaporation rate** < 1 (ethyl ether = 1)

Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Vapor pressure

17.69 mm Hg

Vapor density Relative density 0.634 Air =1 1.002 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient (n-octanol/water)

Not available

Auto-ignition temperature

Not available

**Decomposition temperature** 

Not available

Viscosity

Not available

Other information

Density

8.34 lb/gal

**Explosive properties** 

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

91.5 - 92.5 %

VOC

CARB COMPLIANT

## 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** 

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

Prolonged inhalation may be harmful. Inhalation

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye damage.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause

redness and pain.

Information on toxicological effects

Acute toxicity

Not known.

**Test Results** Components Species

Didecyl dimethyl ammonium chloride (CAS 7173-51-5)

Acute Dermal

LD50

Rabbit

2730 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Chronic effects

Prolonged inhalation may be harmful. Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** 

Toxic to aquatic life with long lasting effects.

**Product** Species NON-ACID RESTROOM DISINFECTANT/CLEANER

> Aquatic Crustacea

EC50

Daphnia

126.6858 mg/l, 48 hours estimated

Fish

LC50

Fish

58.64 mg/l, 96 hours estimated

**Test Results** 

Persistence and degradability

Bioaccumulative potential

No data is available on the degradability of this product.

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow Disposal instructions

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations. Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at

the nearest EPA Regional Office for guidance.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment requirements.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. CONTAINER DISPOSAL – Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying. After rinsing container, offer empty metal drums or plastic containers for recycling if available or puncture and dispose of in a sanitary landfill or by incineration.

RINSING INSTRUCTIONS - Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

## 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

## 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Skin corrosion or irritation

categories

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## FIFRA Information

FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 1839-169-1658, and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products. The hazard information required on the pesticide label is reproduced here.

PRECAUTIONARY STATEMENTS - HAZARDS TO HUMANS AND DOMESTIC ANIMALS.

KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. May be fatal if absorbed through the skin. Harmful if swallowed. Wear goggles or face shield, rubber gloves, and protective clothing. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

FIRST AID: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN Probable mucosal damage may contraindicate the use of gastric lavage.

## **US** state regulations

## California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes

Canada Domestic Substances List (DSL)
Canada Non-Domestic Substances List (NDSL)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date 04-23-2015

Revision date 04-26-2019

Version # 02
HMIS® ratings Health: 3

Flammability: 0 Physical hazard: 0

Disclaimer No representations or warranties, either express or implied, of merchantability, fitness for a

particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

Revision information This document has undergone significant changes and should be reviewed in its entirety.

No

# Non-Acid Restroom Cleaner (C3)



## SAFETY DATA SHEET

## 1. Identification

Product identifier

NON-ACID RESTROOM DISINFECTANT/CLEANER

Other means of identification

SDS number

566N-154A

Product code

HIL00703

# HIL0070322

**Product registration** 

number

1839-169-1658

Recommended use

Disinfectant/Cleaner

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Manufacturer

Company name

HILLYARD INDUSTRIES 302 North Fourth St.

Address

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail Emergency telephone # regulatoryaffairs@hillyard.com

(800) 424-9300

(000) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or

accident involving chemicals)

## 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 1

**Environmental hazards** 

Hazardous to the aquatic environment, acute

Category 2

hazard

.

Hazardous to the aquatic environment,

Category 2

long-term hazard

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

**Hazard statement** 

Causes skin irritation. Causes serious eye damage. Toxic to aquatic life. Toxic to aquatic life with

long lasting effects.

Precautionary statement

Prevention

Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves. Wear eye/face protection.

Response

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison

center/doctor. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.

Storage

Store away from incompatible materials.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local

requirements.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

## 3. Composition/information on ingredients

## Mixtures

Chemical name	Common name and synonyms	CAS number	%
Alkyl dimethyl benzyl ammonium chloride (C12-16)	*	68424-85-1	1 - < 3
Decyldimethylloctylammonium chloride	N.	32426-11-2	1 - < 3
Didecyl dimethyl ammonium chloride		7173-51-5	< 1
Dimethyldioctylammonium chloride		5538-94-3	< 1
Other components below reportable levels			90 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get Skin contact

medical advice/attention. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention immediately.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth Ingestion

thoroughly. Drink water as a precaution, Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness

symptoms/effects, acute and and pain.

delayed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

medical attention and special

Indication of immediate

treatment needed

Most important

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

Move containers from fire area if you can do so without risk.

equipment/instructions Specific methods General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment, Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

## 7. Handling and storage

Precautions for safe handling

Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment, Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS), DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE - Store in original container in a cool (temperature no lower than 50° F or higher than 120° F), dry and locked storage area inaccessible to children.

## 8. Exposure controls/personal protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

## Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles). Chemical goggles are recommended.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

Appearance

Clear, pale blue liquid

Physical state

Liquid.

Form

Liquid.

Color

Pale blue

Odor

Lavender odor

**Odor threshold** 

Not available

Hq

6 - 7

Melting point/freezing point

Not applicable / Not available

Initial boiling point and boiling

range

> 201 °F (> 93.89 °C)

Flash point

> 200.0 °F (> 93.3 °C) Tag Closed Cup

**Evaporation rate** 

< 1 (ethyl ether = 1)

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure

17.6 mm Hg

Vapor density

0.6 Air =1

Relative density

1.002 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient

Not available

(n-octanol/water)

Auto-ignition temperature Not available

**Decomposition temperature** 

Not available

Viscosity

Not available

Other information

Density

8.34 lb/gal

Percent volatile

91.5 - 92.5 %

VOC (Weight %)

0.68 %

## 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye damage.

Ingestion Symptoms related to the Expected to be a low ingestion hazard.

physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause

redness and pain.

## Information on toxicological effects

## Acute toxicity

Product

	1/2/2
NON-ACID RESTROOM DISINFECT.	ANT/CLEANER

## Acute

Dermal

LD50

Guinea pig

Species

58139.5352 ml/kg estimated

**Test Results** 

Rabbit

9186.0469 ml/kg estimated

Inhalation

LC50

Mouse

10000 mg/l, 2 Hours estimated

3468.1724 mg/l, 4 Hours estimated

Rat

20500 mg/l, 0.5 Hours estimated

12000 mg/l, 4 Hours estimated

Oral

LD50

Guinea pig

645.087 g/kg estimated

HIL00703 Version #: 02 Revision date: 03-31-2016 Issue date: 05-12-2015

Product **Species Test Results** 26353.3027 mg/kg estimated Mouse Rat 9235.3174 mg/kg estimated **Test Results** Components **Species** Didecyl dimethyl ammonium chloride (CAS 7173-51-5) Acute Dermal LD50 Rabbit 2730 mg/kg Oral LD50 Mouse 268 mg/kg Rat 84 mg/kg \* Estimates for product may be based on additional component data not shown. Skin corrosion/irritation Causes skin irritation. Causes serious eye damage. Serious eye damage/eye irritation Respiratory or skin sensitization Not a respiratory sensitizer. Respiratory sensitization Skin sensitization This product is not expected to cause skin sensitization. No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity mutagenic or genotoxic. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Reproductive toxicity This product is not expected to cause reproductive or developmental effects. Not classified. Specific target organ toxicity single exposure Not classified. Specific target organ toxicity repeated exposure Prolonged inhalation may be harmful. Aspiration hazard Chronic effects Prolonged inhalation may be harmful. 12. Ecological information **Ecotoxicity** Toxic to aquatic life with long lasting effects.

Product		Species	Test Results	
NON-ACID RESTRO	OM DISINFECTAN	T/CLEANER		
Aquatic				
Crustacea	EC50	Daphnia	15727.9961 mg/l, 48 hours estimated	
Fish	LC50	Fish	71.075 mg/l, 96 hours estimated	
Components		Species	Test Results	
Didecyl dimethyl amm	onium chloride (CA	S 7173-51-5)		
Aquatic				
Fish	LC50	White sturgeon (Acipenser transmontanus)	0.001 - 0.01 mg/l, 96 hours	

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Mobility in soil No data available.

Other adverse effects No other adverse

fects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess Disposal instructions

pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for

guidance.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

CONTAINER DISPOSAL - Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying. After rinsing container, offer empty metal drums or plastic containers for recycling if available or puncture and dispose of in a sanitary landfill or by incineration. RINSING INSTRUCTIONS - Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

## 14. Transport information

DOT

Not regulated as dangerous goods.

## 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910,1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

## FIFRA Information

FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 1839-169-1658, and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products. The hazard information required on the pesticide label is reproduced here.

PRECAUTIONARY STATEMENTS - HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. May be fatal if absorbed through the skin. Harmful if swallowed. Wear goggles or face shield, rubber gloves, and protective clothing. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

FIRST AID: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN Probable mucosal damage may contraindicate the use of gastric lavage.

## US state regulations

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

  Not listed.
- US. Massachusetts RTK Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

## **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date

05-12-2015

Revision date

03-31-2016

Version #

02

HMIS® ratings

Health: 3

Flammability: 0 Physical hazard: 0

Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

## **Revision Information**

Physical & Chemical Properties: Multiple Properties Physical and chemical properties: Appearance Physical and chemical properties: Color Physical and chemical properties: Odor Toxicological Information: Toxicological Data

## Re-juv-nal

## HILLYARD The Cleaning Resource

## SAFETY DATA SHEET

## 1. Identification

Product identifier

**RE-JUV-NAL** 

Other means of identification

SDS number

543N-29A

Product code

HIL00705

\* HIL0070522

**Product registration** 

number

1839-169-1658

Recommended use

Disinfectant/Cleaner

Recommended restrictions

For Labeled Use Only

Manufacturer

Company name

HILLYARD INDUSTRIES

Address 302 North Fourth St.

Manufacturer/Importer/Supplier/Distributor information

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

## 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Skin corrosion/irritation

Category 2

The Book of the Book of the Control of the Control

Serious eye damage/eye irritation

Category 1

Environmental hazards

Hazardous to the aquatic environment, acute hazard

Category 2

Hazaru

Hazardous to the aquatic environment,

Category 2

long-term hazard

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Causes skin irritation. Causes serious eye damage. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Precautionary statement** 

Prevention

Wash thoroughly after handling. Avoid release to the environment. Wear eye protection/face protection, Wear protective gloves.

Response

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated

clothing and wash it before reuse. Collect spillage.

Material name: RE-JUV-NAL

SDS US

Storage

Store away from incompatible materials.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry container for recycling or reconditioning.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None known.

## 3. Composition/information on ingredients

## **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Alkyl dimethyl benzyl ammonium chloride (C12-16)		68424-85-1	2.170%
Octyl decyl dimethyl ammonium chloride	Type .	32426-11-2	1.627%
Didecyl dimethyl ammonium chloride		7173-51-5	0.814%
Dioctyl dimethyl ammonium chloride	*	5538-94-3	0.814%
Other components below reportable le	evels		94.59251008

## 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

Rinse mouth thoroughly. Drink water as a precaution. Never give anything by mouth to a victim who is unconscious or is having convulsions. If vomiting occurs, keep head low so that stomach

content doesn't get into the lungs. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Causes severe irritation and/or burns. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods
General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

protect themselves.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Material name: RE-JUV-NAL

Methods and materials for containment and cleaning up This product is miscible in water. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment, Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid

> prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE - Store in original container in a cool (temperature no lower than 50oF or

higher than 120°F), dry and locked storage area inaccessible to children.

## 8. Exposure controls/personal protection

## Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

Eye/face protection Avoid contact with eyes. Chemical safety goggles when working with concentrate.

Skin protection

Wear appropriate chemical resistant gloves. Hand protection

None normally required. If unable to avoid prolonged or repeated contact with skin, wear Other

impervious clothing. Wear appropriate chemical resistant clothing.

Not normally required with adequate ventilation. If engineering controls do not maintain airborne Respiratory protection

> concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be

worn.

Thermal hazards

None known.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

## 9. Physical and chemical properties

Appearance

Clear, red liquid

Physical state

Liquid. Liquid.

Form Color

Red

Floral fragrance

Odor threshold

Not available

6 - 7 Concentrate

Melting point/freezing point

Not applicable / Not available

Initial boiling point and boiling range

Odor

Ha

201 °F (93.89 °C)

Flash point

> 200.0 °F (> 93.3 °C) Tag Closed Cup

Material name: RE-JUV-NAL HIL00705 Version #: 04 Revision date: 01-10-2020 Issue date: 03-11-2015 Evaporation rate

< 1 Ethyl ether = 1

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

47.07 ...... 11

Vapor density

17.67 mm Hg

vapor density

0.6319 Air =1

Relative density

1.002 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient

Not available

(n-octanol/water)

Auto-ignition temperature

Not available

**Decomposition temperature** 

Not available

Viscosity

Not available

Other information

Density

8.34 lb/gal

**Explosive properties** 

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

91.5 - 92.5 %

VOC

0.68 %

## 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

Causes skin irritation.

Causes serious eye damage.

Eye contact Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the

physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause

redness and pain.

## Information on toxicological effects

Acute toxicity

Not known.

Product Species Test Results

**RE-JUV-NAL** 

Acute

Dermal

Dermai

LD50

Rabbit

332100 mg/kg

Oral

LD50

Rat

9741 mg/kg

Material name: RE-JUV-NAL

3141 mg/kg

Components Species Test Results

Didecyl dimethyl ammonium chloride (CAS 7173-51-5)

**Acute** 

Dermal

LD50 Rabbit 2730 mg/kg

Oral

LD50 Rat 84 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

Causes serious eve damage.

irritation

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure

**Ecotoxicity** 

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Toxic to aquatic life with long lasting effects.

Product Species Test Results
RE-JUV-NAL

Aquatic

Fish

Crustacea EC50 I

Daphnia

Fish

hnia 126.6858 mg/l, 48 hours estimated

Components Species

Alkyl dimethyl benzyl ammonium chloride (C12-16) (CAS 68424-85-1)

Aquatic

Fish LC50

Striped bass (Morone saxatilis)

10.4 - 19.1 mg/l, 96 hours

**Test Results** 

58.9702 mg/l, 96 hours estimated

Didecyl dimethyl ammonium chloride (CAS 7173-51-5)

Aquatic

Fish

LC50

LC50

White sturgeon (Acipenser

0.001 - 0.01 mg/l, 96 hours

transmontanus)

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Mobility in soil

No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

Material name: RE-JUV-NAL

SDS US

## 13. Disposal considerations

Disposal instructions

PESTICIDE DISPOSAL - Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for quidance.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

CONTAINER DISPOSAL - Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying. After rinsing container, offer empty metal drums or plastic containers for recycling if available or puncture and dispose of in a sanitary landfill or by incineration. RINSING INSTRUCTIONS - Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

## 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

## 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List or Exempt.

Toxic Substances Control Act (TSCA)

One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Skin corrosion or irritation

categories

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

Material name: RE-JUV-NAL

SDS US

HIL00705 Version #: 04 Revision date: 01-10-2020 Issue date: 03-11-2015

## Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

**FIFRA Information** 

FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 1839-169-1658, and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products. The hazard information required on the pesticide label is reproduced here.

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS. DANGER

KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. May be fatal if absorbed through the skin. Harmful if swallowed. Wear goggles or face shield, rubber gloves, and protective clothing. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

FIRST AID Have the product container or label with you when calling a poison control center or doctor, or going for treatment. If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

## US state regulations

## California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

## International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada Canada Domestic Substances List (DSL)

Yes No

United States & Puerto Rico

Non-Domestic Substances List (NDSL)

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date

03-11-2015

Revision date

01-10-2020

Version #

04

**HMIS®** ratings

Health: 3

Flammability: 0 Physical hazard: 0

Disclaimer

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Material name: RE-JUV-NAL sc

## Revision information

Hazard(s) identification: Response

Composition/information on ingredients: Component information

First-aid measures: Skin contact

First-aid measures: Most important symptoms/effects, acute and delayed

Accidental release measures: Personal precautions, protective equipment and emergency

procedures

Exposure controls/personal protection: Other

Exposure controls/personal protection: PPE Symbols Physical & Chemical Properties: Multiple Properties

Stability and reactivity: Conditions to avoid Toxicological Information: Toxicological Data

Toxicological information: Symptoms related to the physical, chemical and toxicological

characteristics

Regulatory information: Toxic Substances Control Act (TSCA)

GHS: Classification

## Restorer

## HILLYARD The Cleaning Resource\*

### SAFETY DATA SHEET

### 1. Identification

**Product identifier** 

RESTORER

Other means of identification

SDS number

567N-98A

Product code

HIL00823

Recommended use

Floor Finish

Recommended restrictions

For Labeled Use Only

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

HILLYARD INDUSTRIES

Address

302 North Fourth St.

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

\* HIL0082325

involving chemicals)

### 2. Hazard(s) identification

Physical hazards

Flammable liquids

Category 4

Health hazards

Serious eye damage/eye irritation

Category 2A

**Environmental hazards** 

Hazardous to the aquatic environment, acute

Category 3

hazard

Hazardous to the aquatic environment,

Category 3

long-term hazard

**OSHA** defined hazards

Not classified.

Label elements



Signal word

Warning

Hazard statement

Combustible liquid. Causes serious eye irritation. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/eye protection/face

protection. Use with adequate ventilation.

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of soap and water. Get medical attention if irritation develops and persists in

case of fire: Use appropriate media to extinguish.

Storage

Store in a well-ventilated place. Keep cool.

Material name: RESTORER

### Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry container for recycling or reconditioning.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

### 3. Composition/information on ingredients

### **Mixtures**

Chemical name Common name and synony		CAS number	%
2-methoxymethylethoxy propanol [DPM]		34590-94-8	1 - < 3
Isopropyl Alcohol		67-63-0	1 - < 3
Other components below reportable	elevels		90 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Rinse mouth thoroughly. Drink plenty of water. Get medical attention if any discomfort continues.

Ingestion Most important Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

symptoms/effects, acute and vision.

delayed

Indication of immediate

medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters Fire fighting

equipment/instructions

General fire hazards

Specific methods

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

Combustible liquid.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Material can be slippery when wet. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Follow precautions for safe handling described in this safety data sheet. For personal protection, see section 8 of the SDS.

HIL00823 Version #: 03 Revision date: 08-21-2019 Issue date: 02-10-2015

### Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

### **Environmental precautions**

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

	Value
2-methoxymethylethoxy PEL propanol [DPM] (CAS 34590-94-8)	600 mg/m3
	100 ppm
Isopropyl Alcohol (CAS PEL 67-63-0)	980 mg/m3
	400 ppm
US. ACGIH Threshold Limit Values	
Components Type	Value
2-methoxymethylethoxy STEL propanol [DPM] (CAS 34590-94-8)	150 ppm
TWA	100 ppm
Isopropyl Alcohol (CAS STEL 67-63-0)	400 ppm
TWA	200 ppm
US. NIOSH: Pocket Guide to Chemical Hazards	
Components Type	Value
2-methoxymethylethoxy STEL propanol [DPM] (CAS 34590-94-8)	900 mg/m3
	150 ppm
TWA	600 mg/m3
	100 ppm
Isopropyl Alcohol (CAS STEL 67-63-0)	1225 mg/m3
	500 ppm

Material name: RESTORER

Components

TWA

Value

980 mg/m3

400 ppm

Biological limit values

**ACGIH Biological Exposure Indices** 

Components Value Determinant Specimen Sampling Time

Isopropyl Alcohol (CAS 40 mg/l Acetone Urine \*

67-63-0)

### Exposure guidelines

### US - California OELs: Skin designation

2-methoxymethylethoxy propanol [DPM] (CAS

Can be absorbed through the skin.

34590-94-8)

### US - Tennessee OELs: Skin designation

2-methoxymethylethoxy propanol [DPM] (CAS 34590-94-8)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

2-methoxymethylethoxy propanol [DPM] (CAS

Can be absorbed through the skin.

34590-94-8)

### US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-methoxymethylethoxy propanol [DPM] (CAS

Can be absorbed through the skin.

34590-94-8)

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-methoxymethylethoxy propanol [DPM] (CAS 34590-94-8)

Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

### Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards

None known.

General hygiene considerations When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### 9. Physical and chemical properties

**Appearance** 

Translucent pink liquid

Physical state

Liquid. Liquid.

Form Color

Pink.

Odor threshold

Fruit punch odor Not available

Oddi tili esildid

8.00 - 9.00

Melting point/freezing point

0.00 0.00

Meiting point/freezing point

Not available

Initial boiling point and boiling

205 °F (96.11 °C)

range

Flash point

Odor

pH

151.0 °F (66.1 °C) Tag Closed Cup

<sup>\* -</sup> For sampling details, please see the source document.

**Evaporation rate** 

< 1 (ethyl ether = 1)

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

17.57 mm Hg

Vapor density

0.793 AIR=1

Relative density

1 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient

Not available

(n-octanol/water)

Not available

Auto-ignition temperature Decomposition temperature

Not available

Viscosity

Not available

Other information

Density

8.33 lb/gal

**Explosive properties** 

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

97.25 - 98.5 %

VOC

5.03 % (concentrate)

### 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Conditions to avoid

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

### 11. Toxicological information

Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

May be irritating to the skin. Causes serious eye irritation.

Eye contact Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the

physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

Information on toxicological effects

Acute toxicity

Not known.

Components

Species

**Test Results** 

2-methoxymethylethoxy propanol [DPM] (CAS 34590-94-8)

**Acute** 

Dermal

LD50

Rabbit

9.5 g/kg

Oral

LD50

Rat

5.35 g/kg

Material name: RESTORER

SDS US

HIL00823 Version #: 03 Revision date: 08-21-2019 Issue date: 02-10-2015

Components **Species Test Results** 

Causes serious eye irritation.

Isopropyl Alcohol (CAS 67-63-0)

Acute Dermal

LD50 Rabbit 12800 mg/kg

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Respiratory or skin sensitization

Respiratory sensitization Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Chronic effects

Prolonged inhalation may be harmful. Prolonged inhalation may be harmful.

12. Ecological information

Harmful to aquatic life. Harmful to aquatic life with long lasting effects. **Ecotoxicity** 

Product		Species	Test Results	
RESTORER				
Aquatic				
Crustacea	EC50	Daphnia	94.154 mg/l, 48 hours estimated	
Fish	LC50	Fish	160.9012 mg/l, 96 hours estimated	
Components		Species	Test Results	

Isopropyl Alcohol (CAS 67-63-0)

Aquatic

Fish

LC50

Western mosquitofish (Gambusia affinis) > 1400 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Isopropyl Alcohol

0.05

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Material name: RESTORER

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not established.

the IBC Code

### 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Flammable (gases, aerosols, liquids, or solids)

categories

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Isopropyl Alcohol (CAS 67-63-0)

Low priority

### US state regulations

### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Isopropyl Alcohol (CAS 67-63-0)

Material name: RESTORER
HIL00823 Version #: 03 Revision date: 08-21-2019 Issue date: 02-10-2015

### International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

Issue date

02-10-2015

Revision date

08-21-2019

Version #

Disclaimer

03

HMIS® ratings

Health: 2

Flammability: 2

Physical hazard: 0

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.

Material name: RESTORER

HIL00823 Version #: 03 Revision date: 08-21-2019 Issue date: 02-10-2015

# Reiger's Sustainable Remedy Hand Sanitizer



### Safety Data Sheet

### **Product And Company Identification**

Product Identifier: Rieger's Sustainable Remedy Hand

Sanitizer (MSD-240)

General Use: Rieger's Sustainable Remedy Hand Sanitizer is designed to help reduce bacteria that potentially can cause disease. For use when soap and water are not available. Quickly

removes the number of microbes on hands.

Product Description: Clear liquid.

**COMPANY PROFILE:** Jacob Rieger and Company

2700 Guinotte Avenue

Information Number 1-816-702-7800

**EMERGENCY TELEPHONE:** INFOTRAC

200 North Palmetto Street Kansas City, MO 64120-1501 Leesburg, FL 34748 24 hrs, 7 days/week 1-800-535-5053

Website: www.JRiegerCo.com, Email:

Cheers@JRiegerCo.com

### 2. Hazards Identification

Direct eye contact may cause irritation. Toxic when ingested.

GHS Classification: Flammable Liquids, Category 3 Eye irritation, Category 2B

**GHS Label Elements** 

Signal Word: Warning

H226 Flammable liquid and vapor

H320 Causes eye irritation

ecautionary Statements:

210 Keep away from heat/sparks/open flames/hot surfaces. No smoking

P370 + P378 In case of fire, use dry sand, dry chemical or alcohol-resistant foam for extinction

P403 + P235 Store in a well-ventilated place. Keep cool P501 Dispose of contents and container in accordance with all local, regional, national and international regulations P305 + P351 + P338 IF IN EYES: Rinse cautiously with water

for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 IF eye irritation persists: Get medical advice/attention

### 3. Composition/Information on Ingredients

CAS: 64-17-5

Ethanol

80%

EC: 200-578-6

Inactive ingredients:

CAS: 56-81-5 Glycerol

CAS: 7722-84-1 Hydrogen peroxide

1.45% 0.125%

### 4. First Aid Measures

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower evelids. Check for and remove any contact lenses. Get medical attention if irritation rsists.

ingestion: Toxic when ingested. If a large quantity is swallowed, do not induce vomiting. Call a physician or poison control center immediately.

### MSD-240

### 4. First Aid Measures (Cont'd)

Inhalation: None usually required. If symptoms develop, seek medical attention.

Skin Contact: None usually required. Material is designed for skin cleansing. If symptoms develop, seek medical attention.

### 5. Fire Fighting Measures

Extinguishing Media: Use dry sand, dry chemical or alcoholresistant foam. Do NOT use high volume water jet.

Special Fire Fighting Procedures: Fire hazard. Wear personal protective equipment. Move containers from fire area if it can be done without risk. Keep containers cool and vapors down with water spray. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Prevent runoff from entering sewers and public waterways.

Hazardous Combustion Products: Carbon oxides.

Unusual Hazards: Do not breathe fumes. Flash back possible over considerable distance.

### 6. Accidental Release Measures

Spill or Leak Procedures: Remove all sources of ignition. Contain spill and collect with non-combustible absorbent material (sand, diatomaceous earth, vermiculite) and place in container for disposal (see Section 13).

### 7. Handling and Storage

Handling Precautions: Keep out of eyes, ears and mouth. For external use only. Keep away from heat or flame. Do not smoke while using. Do not use if pre-existing skin conditions exist. Storage Precautions: Avoid freezing and excessive heat. Store in a cool, well-ventilated place, between 59° - 86°F (15° - 30°C). Keep away from oxidizing agents. Store in suitable labeled containers away from sources of ignition. Shelf Life: Approximately 2 years from date of shipment when stored correctly.

General: Follow label directions carefully. Keep away from heat and sources of ignitions. Keep out of reach of children. Keep container tightly sealed when not in use. The container can be hazardous when empty. Follow label cautions even after the container is empty. Do not re-use empty containers for food, clothing or products for human or animal consumption, or where skin contact can occur.

### 8. Exposure Controls/Personal Protection

Engineering Controls: Provide general ventilation to keep concentrations below PEL/TLV.

### PERSONAL PROTECTION

Eyes: Not usually necessary unless splashing may occur. Do not allow to directly contact eyes.

Respirator: Not usually necessary. Gloves: Not normally required.

Other: None.



### Safety Data Sheet

### Exposure Controls/Personal Protection (Cont'd)

### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

EXPOSURE LIMITS 8 hrs. TWA (ppm)

**OSHA PEL** 

**ACGIH TLV** 

Ethyl alcohol

1000 ppm

1000 ppm

N.E. = Not Established

### 9. Physical and Chemical Properties (of the Liquid)

Appearance: Clear liquid

Odor: Alcohol

Odor Threshold: Not established

pH: 7.5 typical

Melting Point/Freezing Point: Not available Initial Boiling Point and Range: Not available

Flash Point: Not available Method: Not applicable

Evaporation Rate: Not available Flammable Limits: Not available

Conditions of Flammability: Not established

**Explosive Properties: None** Vapor Pressure: Not available Vapor Density: Not available

Relative Density (H<sub>2</sub>0 = 1): Not available Solubility in Water: Not available

Auto Ignition Temperature: Not available

Coefficient of Water/Oil Distribution: Not available

VOC: Not available

### 10. Stability and Reactivity

General: Stable under normal conditions

Conditions of Reactivity: None known under normal

conditions.

Incompatible Materials: Strong oxidizing agents and strong

Conditions to Avoid: Heat, flames sparks and contact with

incompatible materials.

Hazardous Decomposition: None known. Hazardous Polymerization: Not applicable

### 11. Toxicological Information

### **POTENTIAL HEALTH EFFECTS:**

Eye Contact: Direct eye contact may cause irritation. Ingestion: None expected under normal use. Toxic when

ingested.

Inhalation: None expected under normal use. Skin Contact: None expected under normal use.

Chronic: Not established

LD50: Not available LC50: Not available

Carcinogenicity: Not classified based on available information

IARC: Not classified

National Toxicology Program: Not established

OSHA: Not established

California Prop 65: No listed ingredient

### 11. Toxicological Information (Cont'd)

Reproduction Toxicity: No data available

Teratogenicity: No data available Mutagenicity: No data available Synergistic Products: Not available

Ethyl Alcohol: Oral: The oral LD50 for rats is 7.06 g/kg

Inh: The mouse LC50 is 39 gm/m<sup>3</sup> (4hr)

### 12. Ecological Information

The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters

### 13. Disposal Considerations

Waste Disposal Method: Dispose of contents and container in accordance with all local, regional, national and international regulations. Rinse out used containers with copious amounts of cold water to reduce the risk of fire (the containers may then be recycled or disposed of in general waste).

### 14. Transport Information

Ground Transport: <8 gallons: Consumer Commodity ORM-D.

IATA/ICAO/IMDG:

Proper Shipping Name: Alcohols, N.O.S. (Ethanol, Propan-2-

Hazard Class: 3 Packing Group: III

### 15. Regulatory Information

**CERCLA (Comprehensive Environmental Response** Compensation and Liability Act): No Reportable Quantity OSHA Hazard Communication Standard, 29 CFR 1910.1200: Ethyl alcohol

SARA Title III (Superfund Amendments and Reauthorization

Act): No listed ingredient

TSCA (Toxic Substances Control Act): All ingredients are listed.

### 16. Other Information

Prepared by: Dale Gatehouse, Entreprises Krenda Inc. Approved by: Andy Rieger, Jacob Rieger & Company

Approval Date: 04/07/2020 SDS Number: MSD-240

The following is in lieu of all warranties, expressed or implied: All information provided is based on testing and data believed to be accurate.

### Seal 341

## HILLYARD The Cleaning Resource

### SAFETY DATA SHEET

### 1. Identification

**Product identifier** 

**SEAL 341** 

Other means of identification

SDS number

582N-106E

Product code

HIL00341

Recommended use

Floor Finish

Recommended restrictions

For Labeled Use Only

Protect from Freezing

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

HILLYARD INDUSTRIES

Address

302 North Fourth St.

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

### 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Not classified.

**Environmental hazards** 

Hazardous to the aquatic environment, acute Category 3

hazard

OSHA defined hazards

Not classified.

Label elements

Hazard symbol

None.

Signal word

None.

Hazard statement

Harmful to aquatic life.

Precautionary statement

Prevention

Avoid release to the environment.

Response

Wash hands after handling.

Storage

Store away from incompatible materials.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

None.

3. Composition/information on ingredients

**Mixtures** 

Material name: SEAL 341

SDS US

HIL00341 Version #: 04 Revision date: 04-17-2019 Issue date: 11-18-2014

1/7

Chemical name Common name and synonyms  2-(2-ethoxyethoxy)ethanol		CAS number	% 5 - < 10	
		111-90-0		
Tributoxyethyl Phosphate		78-51-3	1-<3	
Other components below report	able levels		90 - 100	

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Continue rinsing.

Ingestion Drink water as a precaution. Get medical attention if any discomfort continues.

Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Follow precautions for safe handling described in this safety data sheet. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is miscible in water. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Material name: SEAL 341 sps us

US. Workplace Environmental Exposure Level (WEEL) Guides

Components Value Type TWA 2-(2-ethoxyethoxy)ethanol 140 mg/m3

(CAS 111-90-0) 25 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to controls maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Avoid contact with eyes. Where splashing of concentrate is a concern, use protective glasses with

side shield

Skin protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

Other Not normally needed.

Respiratory protection No personal respiratory protective equipment normally required.

Thermal hazards None known.

General hygiene Always observe good personal hygiene measures, such as washing after handling the material considerations

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

**Appearance** Milky, white emulsion

Physical state Liquid. Liquid. Form Color Milky white

Odor non-objectionable odor

Odor threshold Not available 8.25 - 9.25Ha

Melting point/freezing point Not applicable / Not available

Initial boiling point and boiling > 200 °F (> 93.33 °C) range

Flash point > 200.0 °F (> 93.3 °C) Tag Closed Cup

**Evaporation rate** < 1 Ethyl ether = 1 Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available. Vapor pressure 18.16 mm Hg

Vapor density 1.3458 AIR=1 Relative density 1.029 at 77°F

Solubility(ies)

Solubility (water) Appreciable Partition coefficient Not available (n-octanol/water)

**Auto-ignition temperature** Not available **Decomposition temperature** Not available

Viscosity Not available

Other information

Material name: SEAL 341

8.57 lb/gal Density **Explosive properties** Not explosive. Oxidizing properties Not oxidizing.

HIL00341 Version #: 04 Revision date: 04-17-2019 Issue date: 11-18-2014

Percent volatile

77.5 - 78.5 %

VOC

**CARB** Compliant

### 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

### 11. Toxicological information

### Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

May be irritating to the skin.

Eye contact

Direct contact with eyes may cause temporary irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the

physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Not known.

Product

Species

**Test Results** 

**SEAL 341** 

Acute

Inhalation

LC50

Cat

83.68 mg/l, 1 Hours

Components

**Species** 

**Test Results** 

2-(2-ethoxyethoxy)ethanol (CAS 111-90-0)

Acute

Dermal

LD50

Rat

6000 mg/kg

Tributoxyethyl Phosphate (CAS 78-51-3)

**Acute** 

Oral

LD50

Rat

3000 mg/kg

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Material name: SEAL 341

SDS US

HIL00341 Version #: 04 Revision date: 04-17-2019 Issue date: 11-18-2014

### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

**Chronic effects** 

Draduct

Prolonged inhalation may be harmful.

### 12. Ecological information

**Ecotoxicity** 

Harmful to aquatic life.

Froduct .	Species Test Results		rest Results
SEAL 341	,		
Aquatic			
Crustacea	EC50	Daphnia	1075.1927 mg/l, 48 hours estimated
Fish	LC50	Fish	434.3496 mg/l, 96 hours estimated
Components		Species	Test Results

Aquatic

Fish

LC50

Bluegill (Lepomis macrochirus)

> 10000 mg/l, 96 hours

Took Dooules

Tributoxyethyl Phosphate (CAS 78-51-3)

Aquatic

Fish

LC50

Fathead minnow (Pimephales promelas) 10.4 - 12 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2-(2-ethoxyethoxy)ethanol

-0.54 3.75

Tributoxyethyl Phosphate

Mobility in soil

No data available.

Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation

potential.

### 13. Disposal considerations

**Disposal instructions** 

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Hazardous waste code

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

MDG

Not regulated as dangerous goods.

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Material name: SEAL 341

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

### 15. Regulatory information

US federal regulations

All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

### US state regulations

### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

### International Inventories

Country(s) or region Inventory name

On inventory (yes/no)\*

Canada

Domestic Substances List (DSL)

Yes

Canada

Non-Domestic Substances List (NDSL)

Yes

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

Issue date

11-18-2014

Revision date

04-17-2019

Version #

04

**HMIS®** ratings

Health: 0

Flammability: 0 Physical hazard: 0

Material name: SEAL 341

SDS US

HIL00341 Version #: 04 Revision date: 04-17-2019 Issue date: 11-18-2014

### **Disclaimer**

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.

## Spectracide Wasp & Hornet Killer3

Page 1 of 6

Revision date: 2/29/2016

### Section 1 - Product and Company Identification

### Product Identifiers:

**Product name:** 

Spectracide Wasp & Hornet Killer<sub>3</sub>

EPA reg. number:

9688-190-8845

Recommended product use:

Insecticide - Wasp & Hornet, Aerosol

### **Details of the Supplier of the Safety Data Sheet:**

Manufacturer/Supplier:

Chemsico

Div. of United Industries Corp.

P.O. Box 142642 St. Louis, MO 63114

For product information:

1-800-917-5438

For medical emergencies:

1-800-633-2873

### Section 2 - Hazards Identification

Conforms to Hazard Communication Standard 29 CFR 1910.1200.

GHS Classification of Substance or Mixture: Flammable aerosol - Category 2

### **GHS Label Elements:**

Hazard pictogram(s):





Signal word:

WARNING

Hazard statements:

- Flammable aerosol
- · Compressed gas contents under pressure; may burst if

heated

**Precautionary Statements:** 

- Contents under pressure.
- · Do not use or store near heat or open flame.
- · Do not puncture or incinerate container.
- Exposure to temperatures above 130°F may cause

bursting.

### Section 3 - Composition / Information on Ingredients

Chemical Name	CAS#	Weight Percent
Lambda-cyhalothrin	91465-08-6	0.010%
Prallethrin	23031-36-9	0.025%
Isopropyl alcohol	67-63-0	2.000%
Petroleum distillates, hydrotreated light	64742-47-8	5.000%
Propane	74-98-6	3.500%

Note: Ingredients not identified are proprietary or non-hazardous. Values are not product specification(s).

### Section 4 - First Aid Measures

Eye contact:

Spectracide Wasp & Hornet Killer<sub>3</sub>

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Revision date: 2/29/2016

Skin contact:

No special requirements

Inhalation:

No special requirements

Ingestion:

No special requirements

Note to Physician:

None

General advice:

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect

themselves. Keep out of reach of children.

### Section 5 - Fire Fighting Measures

Flammable properties:

Pressurized aerosol container

NFPA classification:

NFPA level 1 aerosol

Suitable extinguishing media:

Water fog, foam, CO2, dry chemical

Unsuitable extinguishing media:

Not available

Specific hazards arising from the

chemical:

Contents under pressure - container may burst in heat of

fire.

Protective equipment for firefighters:

Firefighters should wear full protective clothing including

self-contained breathing apparatus.

Hazardous combustion products:

None known

**Explosion data:** 

Not available

Sensitivity to static discharge:

Not available

Personal precautions:

Keep unnecessary personnel away. Do not touch or walk

through spilled material.

### Section 6 - Accidental Release Measures

Personnel precautions:

Remove all sources of ignition. Wear personnel protective

equipment as recommended in Section 8. Wash

thoroughly after handling.

For emergency responders:

If specialized clothing is required to deal with the spillage,

take note of any information in Section 8 on suitable and

unsuitable materials.

Environmental precautions:

Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers.

Methods for containment and

cleaning up:

Stop leak if without risk. Move containers from spill area. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with earth, sand or

absorbent material swept up and placed in suitable, covered, and labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in

original containers for re-use.

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### Section 7 - Handling and Storage

Precautions for safe handling:

Put on appropriate personal protective equipment as recommended in Section 8. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C (122°F). Do not pierce or burn, even after use. Do not ingest. Avoid contact with skin, eyes and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical equipment. Use only non-sparking tools. Empty containers retain product residue

and can be hazardous.

Storage:

Store in a cool, dry area away from open flame. Do not

store above 50°C (122°F).

### Section 8 - Exposure Controls / Personal Protection

### **Exposure guidelines:**

				Exposi	ure Limits		
		OSI	IA PEL	ACG	H TLV	Supp	lier OEL
Chemical name		ppm	mg/m³	ppm	mg/m³	ppm	mg/m³
Lambda-cyhalothrin	TWA	Not established		Not es	tablished	Not es	tablished
Prallethrin	TWA	N	lone	l l	lone	l l	lone
Isopropyl alcohol	TWA	400	980	200		No	t listed
Petroleum distillates, light	TWA	None listed			200	None listed	
Propane	TWA	1000	1800	1000		Not established	

**Engineering controls:** 

General ventilation normally adequate.

Personal protective equipment:

Eye/Face protection:

None required

Skin and body protection:

None required

Respiratory protection:

Where exposure guideline levels may be exceeded, use an

approved NIOSH respirator.

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practices. When using, do not eat or drink. Wash hands before breaks and immediately after handling the

product.

### Section 9 - Physical & Chemical Properties

Appearance:

Clear

Color:

Light yellow to water-white

Physical state:

Pressurized liquid

Odor:

Solvent, alcohol & pyrethroid

Odor threshold:

No data available

pH:

7.2

Spectracide Wasp & Hornet Killer<sub>3</sub>

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Melting point:

No data available

Freezing point:

No data available

**Boiling point:** 

No data available

Flash point:

No data available

Flame extension

0" (level 1 aerosol)

Flammability limits in air,

lower, % by volume:

No data available

Flammability limits in air,

upper, % by volume:

No data available

Vapor pressure:

No data available

Vapor density:

No data available

Relative density @ 20°C:

0.962

Octanol/water coefficient:

No data available

Auto-ignition temperature:

No data available

Decomposition temperature:

No data available Miscible in water

Evaporation rate:

Solubility:

No data available

% Volatile organic compounds:

5.5

### Section 10 - Chemical Stability & Reactivity Information

### Reactivity

Conditions to avoid:

Do not mix with other chemicals.

Incompatible materials:

Avoid strong oxidizers.

### Chemical stability

Product stability:

Stable under recommended storage conditions.

### Other

Hazardous decomposition products:

None known

Possibility of hazardous reactions:

Hazardous polymerization does not occur.

### Section 11 - Toxicological Information

Primary eye irritation:

Non-irritating (EPA tox. category IV)

Primary skin irritation:

Non-irritating (EPA tox. category IV)

Acute dermal:

LD<sub>50</sub> > 2000 mg/kg (EPA tox. category III)

Acute inhalation:

LC<sub>50</sub> > 2 mg/L (EPA tox. cateogry IV)

Acute oral:

LD<sub>50</sub> > 5000 mg/kg (EPA tox. category IV)

Sensitization:

Not a skin sensitizer.

Chronic effects/ Carcinogenicity:

No data available

Mutagenicity:

No data available

Reproductive effects:

No data available

Spectracide Wasp & Hornet Killer<sub>3</sub>

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Teratogenicity:

No data available

**Ecotoxicity:** 

No data available

### Section 12 - Ecological Information

**Environmental effects:** 

No data available

Aquatic toxicity:

Toxic to aquatic organisms.

Persistence / degradability:

No data available

Bioaccumulation / accumulation:

No data available

Partition coefficient:

No data available

Mobility in environmental media:

No data available

Chemical fate information:

No data available

### Section 13 - Disposal Considerations

Waste codes:

Not available

Disposal instructions:

Dispose in accordance with all applicable regulations.

Waste from residues / unused

products:

Not available

Contaminated packaging:

Not available

### Section 14 - Transportation Information

**U.S.** Department of Transportation

(DOT):

UN-1950, Aerosols, Flammable, 2.1, Limited Quantity

IATA:

UN-1950, Aerosols, 2.1

IMDG:

UN-1950, Aerosols, Flammable, 2, Limited Quantity

### **Section 15 - Regulatory Information**

29 CFR 1910.1200 hazardous chemical

Occupational Safety and Health

Administration (OSHA):

No

CERCLA (Superfund) reportable

quantity:

Not available

### Hazard categories

### Superfund Amendments and Reauthorization Act of 1986 (SARA):

Immediate Hazard No
Delayed Hazard No
Fire Hazard No
Pressure Hazard No
Reactivity Hazard No

Section 302 extremely hazardous

Substance:

No

Section 311 hazardous chemical:

No

Clean Air Act (CAA):

Not available

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Clean Water Act (CWA):

Not available

State regulations:

FIFRA labeling:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Signal word:

CAUTION

Precautionary statements:

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water

after handling.

This pesticide is toxic to fish. Do not apply directly to water.

Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause

bursting.

**Notification status:** 

All ingredients of this product are listed or are excluded from listing on the U.S.

Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

California Prop. 65:

This product does not contain any chemicals known to the state of California to

cause cancer, birth defects or any other reproductive harm.

Disclaimer:

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any

information contained in this document.

### Section 16 - Other Information

**HMIS** ratings:

Health Hazard 1

Flammability 2 Physical Hazard 1

Item numbers:

HG-95715

Formula number(s):

21-1437

Issue date:

2/29/2016

Prepared by:

Spectrum Group

Division of United Industries Corp.

P.O. Box 142642

St. Louis, MO 63114-0642

(800) 242-1166

## Sports Flex

### SAFETY DATA SHEET

### Sportflex

### Section 1. Identification

GHS product identifier

: Sportflex

Other means of

: 223SF

identification

Product type

: Liquid

### Relevant identified uses of the substance or mixture and uses advised against

Not applicable

Supplier's details

: Essential Industries, Inc.

P.O. Box 12

Merton, WI 53056-0012 Phone: 262-538-1122

Emergency telephone number (with hours of operation)

: 800-843-6174 (24 Hours)

### Section 2. Hazards identification

**OSHA/HCS** status

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 13.8% There is no toxicity data available for the polymer in this product, which is exempt and categorized in a low concern functional group under the EPA's Toxic Substances Control Act (TSCA).

### **GHS label elements**

Signal word

: No signal word.

**Hazard statements** 

: No known significant effects or critical hazards.

**Precautionary statements** 

General

: Read label before use. Keep out of reach of children. If medical advice is needed,

have product container or label at hand.

Prevention Response

: Not applicable

Storage

Not applicable : Not applicable

Disposal

: Not applicable

Hazards not otherwise

ssified

: None known.

Date of issue/Date of revision

: 1/15/2019

Date of previous issue

: 12/19/2014

Version : 0.02

### Section 3. Composition/information on ingredients

substance/mixture

: Mixture

Other means of

: Not available

identification

### CAS number/other identifiers

**CAS** number

: Not applicable

Product code

: 223SF

Ingredient name	%	CAS number
tris(2-butoxyethyl) phosphate	1 - 5	78-51-3
2-(2-methoxyethoxy)ethanol	1 - 5	111-77-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

### Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

nhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion

: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contact

Skin contact

: No known significant effects or critical hazards.

Inhalation

No known significant effects or critical hazards.No known significant effects or critical hazards.

Ingestion

: No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Eye contact

: No specific data.

Inhalation

Ingestion

: No specific data.

Skin contact

No specific data.No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

otes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

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### Section 4. First aid measures

See toxicological information (section 8)

### Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide

carbon monoxide phosphorus oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### ection 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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### Section 7. Handling and storage

### recautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

None.

### Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

nvironmental exposure ontrols

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

### Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid Color : Milky White Odor : Bland

Odor threshold : Not available

pH : 8.2 to 8.6 **Melting point** : 0°C (32°F) **Boiling point** : 100°C (212°F)

Flash point : Closed cup: >93.334°C (>200°F)

**Evaporation rate** : Not available Flammability (solid, gas) : Not available Lower and upper explosive : Not available

(flammable) limits

: <4 kPa (<30 mm Hg) [room temperature] Vapor pressure

Vapor density : <1 [Air = 1] Specific gravity : 1.02 g/cm3 Solubility : Not available

Partition coefficient: n-

octanol/water

: Not available

: 300 g/l

ıto-ignition temperature : Not available **Viscosity** : Not available

**VOC** content

VOCs are calculated following the requirements under 40 CFR, Part 59, Subpart C for Consumer Products and Subpart D for Architectural Coatings.

### Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

Chemical stability : The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

: Under normal conditions of storage and use, hazardous decomposition products should Hazardous decomposition

not be produced. products

Date of issue/Date of revision : 1/15/2019 Date of previous issue : 12/19/2014 Version : 0.02

### Section 11. Toxicological information

### formation on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
tris(2-butoxyethyl) phosphate	LD50 Oral	Rat	3 g/kg	-
	LD50 Dermal	Rabbit	9404 mg/kg	=

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
tris(2-butoxyethyl) phosphate	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	=
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
2-(2-methoxyethoxy)ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	500 milligrams	-

### **Sensitization**

Not available

### **Mutagenicity**

Not available

### Carcinogenicity

Not available

### Reproductive toxicity

Not available

### **Teratogenicity**

Not available

### Specific target organ toxicity (single exposure)

Not available

### Specific target organ toxicity (repeated exposure)

Not available

### **Aspiration hazard**

Not available

Information on the likely

: Not available

routes of exposure

### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

### mptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

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### Section 11. Toxicological information

Skin contact

: No specific data.

Ingestion

: No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

### Short term exposure

Potential immediate

: Not available

effects

Potential delayed effects

: Not available

Long term exposure

Potential immediate

: Not available

effects

Potential delayed effects

: Not available

### Potential chronic health effects

Not available

General

: No known significant effects or critical hazards.

Carcinogenicity

: No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.No known significant effects or critical hazards.

Teratogenicity

Developmental effects

: No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

### . umerical measures of toxicity

### **Acute toxicity estimates**

Route	ATE value			
Oral	107516.2 mg/kg			

### Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
tris(2-butoxyethyl) phosphate 2-(2-methoxyethoxy)ethanol	Acute LC50 11200 µg/l Fresh water Acute EC50 930 ppm Fresh water Acute LC50 960 ppm Fresh water	Fish - Pimephales promelas Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	96 hours 48 hours 96 hours

### Persistence and degradability

Not available

### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
is(2-butoxyethyl) phosphate	3.75	5.8	low
(2-methoxyethoxy)ethanol	-0.47	-	low

### **Mobility in soil**

### Section 12. Ecological information

Soil/water partition coefficient (Koc)

: Not available

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated	Not regulated	Not regulated
UN proper shipping	-	-	*
Transport hazard class(es)	-	=	
Packing group	- 1	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available to Annex II of MARPOL and

the IBC Code

### Section 15. Regulatory information

U.S. Federal regulations

: United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112 : Listed

(b) Hazardous Air Pollutants (HAPs)

**SARA 311/312** 

Version : 0.02 8/10 : 12/19/2014 Date of issue/Date of revision : 1/15/2019 Date of previous issue

### Section 15. Regulatory information

Classification

: Not applicable

### Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
tris(2-butoxyethyl) phosphate 2-(2-methoxyethoxy)ethanol	1 - 5	No.	No.	No.	Yes.	No.
	1 - 5	Yes.	No.	No.	Yes.	No.

### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	2-(2-methoxyethoxy)ethanol	111-77-3	2.4
	2-(2-propoxyethoxy)ethanol	6881-94-3	1.2

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

### California Prop. 65

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Max acceptable dosage
N-methyl-2-pyrrolidone	No.	Yes.	No.	3200 µg/day (inhalation)

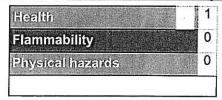
### International regulations

Canada inventory

: All components are listed or exempted.

### Section 16. Other information

### Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



Sportflex

# Section 16. Other information

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### **History**

Date of printing

: 1/15/2019

Date of issue/Date of

: 1/15/2019

revision

Date of previous issue

: 12/19/2014

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

ferences

: Not available

 ${f {\Bbb V}}$  Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

# Spray Clean HD



# SAFETY DATA SHEET

# 1. Identification

Product identifier

SPRAY CLEAN HD

Other means of identification

SDS number

502N37A

Product code

HIL00820

\* HILO082025

Recommended use

General Cleaner

Recommended restrictions

None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer Manufacturer

Company name

Address

HILLYARD INDUSTRIES 302 North Fourth St. St. Joseph, MO 64501

Contact person

Telephone number

Regulatory Affairs (816) 233-1321 (Ext. 8285)

(816) 383-8485

Fax E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or

accident involving chemicals)

## 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Skin corrosion/irritation

Category 2

Serious eve damage/eve irritation

Category 1

**Environmental hazards** 

Hazardous to the aquatic environment, acute

Category 3

hazard

**OSHA** defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Causes skin irritation. Causes serious eye damage. Harmful to aquatic life.

Precautionary statement

Prevention

Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves. Wear

eye/face protection.

Response

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated

clothing and wash before reuse.

Storage

Store away from incompatible materials.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local

requirements.

Hazard(s) not otherwise

None known.

classified (HNOC)

Material name: SPRAY CLEAN HD

SDS US

#### Supplemental information

% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. Use With Adequate Ventilation. Avoid breathing vapors or spray mist. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Do not take internally.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
2-Methoxymethylethoxypropan ol [DPM]		34590-94-8	10 - < 20
1-Butoxy-2-propanol		5131-66-8	5 - < 10
Alcohols, C9-11, ethoxylated		68439-46-3	5 - < 10
Ethanol, 2-amino-		141-43-5	3 - < 5
Tetrasodium ethylenediamine tetraacetate		64-02-8	1 - < 3
Other components below reportable level	ls '		60 - < 70

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

General information

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting

equipment/instructions Specific methods

General fire hazards

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

# Methods and materials for containment and cleaning up

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

# 7. Handling and storage

Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air		
Components	Туре	Value
2-Methoxymethylethoxyprop an ol [DPM] (CAS 34590-94-8)	PEL	600 mg/m3
		100 ppm
Ethanol, 2-amino- (CAS 141-43-5)	PEL	6 mg/m3
		3 ppm
US. ACGIH Threshold Limit Values	3	
Components	Туре	Value
2-Methoxymethylethoxyprop an ol [DPM] (CAS 34590-94-8)	STEL	150 ppm
American and an american and a series	TWA	100 ppm
Ethanol, 2-amino- (CAS 141-43-5)	STEL	6 ppm
•	TWA	3 ppm
US. NIOSH: Pocket Guide to Chem	ical Hazards	9
Components	Туре	Value
2-Methoxymethylethoxyprop an ol [DPM] (CAS 34590-94-8)	STEL	900 mg/m3
(6.16 6.666 5.6)		150 ppm
	TWA	600 mg/m3
		100 ppm
Ethanol, 2-amino- (CAS 141-43-5)	STEL	15 mg/m3
,	*	6 ppm
	TWA	8 mg/m3
		3 ppm

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

US - California OELs: Skin designation

2-Methoxymethylethoxypropan ol [DPM] (CAS 34590-94-8)

Can be absorbed through the skin.

Material name: SPRAY CLEAN HD

US - Tennessee OELs: Skin designation

2-Methoxymethylethoxypropan ol [DPM]

Can be absorbed through the skin.

(CAS 34590-94-8)

US ACGIH Threshold Limit Values: Skin designation

2-Methoxymethylethoxypropan of [DPM]

Can be absorbed through the skin.

(CAS 34590-94-8)

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Methoxymethylethoxypropan ol [DPM]

Can be absorbed through the skin.

(CAS 34590-94-8)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Methoxymethylethoxypropan ol [DPM]

Can be absorbed through the skin.

(CAS 34590-94-8)

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical safety goggles when working with concentrate.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear suitable protective clothing.

Respiratory protection

Not normally required with adequate ventilation.

Thermal hazards

None known.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Clear, dark purple liquid

Physical state

Liquid.

Form

Liquid.

Color

Dark purple

Odor

Mountain berry odor

Odor threshold

Not available

pH

12 - 13 Concentrate

Melting point/freezing point

Not applicable / Not available

Initial boiling point and boiling

range

207 °F (97.22 °C)

Flash point

> 207.0 °F (> 97.2 °C) Tag Closed Cup

**Evaporation rate** 

< 1 (ethyl ether = 1)

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

17.4 mm Ha

Vapor density

0.87 Air = 1

Relative density

1.01 g/cm3 at 77°F

Solubility(ies)

Solubility (water)

Complete

Partition coefficient

Not available

(n-octanol/water)

Auto-ignition temperature

Not available

Decomposition temperature

Not available

Viscosity

Not available.

HIL00820 Version #: 02 Revision date: 03-02-2016 Issue date: 01-19-2015

Material name: SPRAY CLEAN HD

SDS US

4/8

Other information

Density

8.41 lb/gal

Flammability class

Combustible IIIB estimated

Percent volatile

90.5 - 91.5 %

VOC (Weight %)

3 % Diluted 1:10 32.96 % Concentrate

10. Stability and reactivity

Reactivity

Reacts violently with strong acids. This product may react with oxidizing agents.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Avoid temperatures exceeding the flash point. Do not mix with other chemicals. Contact with

incompatible materials.

Incompatible materials

Acids. Strong oxidizing agents. Oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

Causes skin irritation.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not

been observed in humans.

Eye contact

Causes serious eye damage.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the

physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause

redness and pain.

# Information on toxicological effects

Acute toxicity

riodio toxioni		
Product	Species	Test Results
SPRAY CLEAN HD	37	
Acute		
Dermal	E	
LD50	Rabbit	95200 ml/kg estimated
		20207.2969 mg/kg estimated
Inhalation		
LC50	Mouse	5830.9858 mg/l, 4 Hours estimated
		5633.8027 mg/l, 2 Hours estimated
	Rat	11549.2959 mg/l, 0.5 Hours estimated
		6760.5635 mg/l, 4 Hours estimated
Oral		
LD50	Guinea pig	12382.209 mg/kg estimated
	Mouse	13229.4063 mg/kg estimated
	Rabbit	1093.4783 g/kg estimated
	Rat	136,3636 ml/kg estimated
		75.3563 g/kg estimated

Components Species **Test Results** 2-Methoxymethylethoxypropan ol [DPM] (CAS 34590-94-8) Acute Dermal LD50 Rabbit 9.5 g/kg Oral LD50 Rat 5.4 ml/kg 5.35 g/kg Ethanol, 2-amino- (CAS 141-43-5) Acute Dermal LD50 Rabbit 1025 mg/kg Oral LD50 Guinea pig 620 mg/kg Mouse 700 mg/kg Rat 10.2 g/kg \* Estimates for product may be based on additional component data not shown. Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye Causes serious eye damage. irritation Respiratory or skin sensitization Respiratory sensitization Not a respiratory sensitizer. Skin sensitization This product is not expected to cause skin sensitization. Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Reproductive toxicity This product is not expected to cause reproductive or developmental effects. Specific target organ toxicity -Not classified. single exposure Specific target organ toxicity -Not classified. repeated exposure Aspiration hazard Prolonged inhalation may be harmful. Chronic effects May be harmful if absorbed through skin. Prolonged inhalation may be harmful. Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans. 12. Ecological information **Ecotoxicity** Harmful to aquatic life. **Product Test Results Species** SPRAY CLEAN HD Aquatic Crustacea EC50 Daphnia 90.15 mg/l, 48 hours estimated Fish LC50 Fish 115.5992 mg/l, 96 hours estimated

Components

Aquatic

Crustacea

**Test Results** 

2.9 - 8.5 mg/l, 48 hours

EC50

Alcohols, C9-11, ethoxylated (CAS 68439-46-3)

**Species** 

Water flea (Daphnia magna)

Fish LC50 Fathead minnow (Pimephales promelas) 6 - 12 mg/l, 96 hours

Ethanol, 2-amino- (CAS 141-43-5)

Aquatic

Fish LC50 Rainbow trout,donaldson trout 114 - 196 mg/l, 96 hours (Oncorhynchus mykiss)

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethanol, 2-amino-

-1.31

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

Disposal instructions

Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not contaminate ponds, waterways or ditches with chemical or

used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local

pretreatment requirements.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

#### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910,1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

#### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

#### US. Massachusetts RTK - Substance List

2-Methoxymethylethoxypropan ol [DPM]

(CAS 34590-94-8)

Ethanol, 2-amino- (CAS 141-43-5)

#### US. New Jersey Worker and Community Right-to-Know Act

2-Methoxymethylethoxypropan ol [DPM]

(CAS 34590-94-8)

Ethanol, 2-amino- (CAS 141-43-5)

# US. Pennsylvania Worker and Community Right-to-Know Law

2-Methoxymethylethoxypropan ol [DPM]

(CAS 34590-94-8)

Ethanol, 2-amino- (CAS 141-43-5)

#### US. Rhode Island RTK

Not regulated.

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date

01-19-2015

Revision date

03-02-2016

Version #

02

**HMIS®** ratings

Health: 3

Flammability: 0

Physical hazard: 0

Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

Revision Information

Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Disclosure Overrides

Physical & Chemical Properties: Multiple Properties Physical and chemical properties: Appearance Toxicological Information: Toxicological Data

GHS: Classification

Material name: SPRAY CLEAN HD

SDS US HIL00820 Version #: 02 Revision date: 03-02-2016 Issue date: 01-19-2015

# Stainless Steel Cleaner & Polish



# SAFETY DATA SHEET

# 1. Identification

Product number

HIL0113455

Product identifier

STAINLESS STEEL CLEANER & POLISH

Company information

HILLYARD INC 302 North 4th Street

St. Joseph, MO 64501 United States

Company phone

816-383-8285

**Emergency telephone US** 

1-800-424-9300

Version #

01

Recommended use

**CLEANER** 

Recommended restrictions

None known.

# 2. Hazard(s) identification

Physical hazards

Flammable aerosols

Category 1

Health hazards

Gases under pressure Aspiration hazard

Liquefied gas Category 1

**OSHA** defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if

swallowed and enters airways.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting.

Storage

Store locked up. Protect from sunlight. Store in a well-ventilated place. Donot expose to

temperatures exceeding 50°C/122°F.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Combustible.

Supplemental information

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%%
Butane		106-97-8	10 - 20
Distillates (petroleum), Hydrotreated Light		64742-47-8	10 - 20
Propane		74-98-6	2.5 - 10
Other components below reportal	ble levels		60 - 80

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

No adverse effects due to skin contact are expected.

Product name: STAINLESS STEEL CLEANER & POLISH

SDS US 1/9 Eye contact

Ingestion

No specific first aid measures noted.

Most important

Not likely, due to the form of the product.

Aspiration may cause pulmonary edema and pneumonitis.

symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Dry chemicals. Carbon dioxide (CO2). None known.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting equipment/instructions In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame. Combustible.

#### Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. For waste disposal, see section 13 of the SDS.

# **Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Avoid prolonged or repeated contact with skin. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Product name: STAINLESS STEEL CLEANER & POLISH Product #: HIL0113455 Version #: 01 Issue date: 02-18-2019

#### Conditions for safe storage. including any incompatibilities

Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

Value

# 8. Exposure controls/personal protection

#### Occupational exposure limits

Componente

US. OSHA Tabl	e Z-1 Limits	for Air (	Contaminants	(29 CFR	1910.1000)

Tymo

Components	туре	value	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
· · · · · · · · · · · · · · · · · · ·		1000 ppm	
<b>US. ACGIH Threshold Limit Valu</b>	es .		
Components	Туре	Value	
Butane (CAS 106-97-8)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
Butane (CAS 106-97-8)	TWA	1900 mg/m3	
540		800 ppm	
Propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

Eye/face protection

Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other

Wear suitable protective clothing.

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

#### **Appearance**

Physical state

Gas.

Form

Aerosol. Liquefied gas.

Color

Not available.

Not available.

Odor threshold

Not available.

Melting point/freezing point

Not available.

Not available.

Initial boiling point and boiling

range

Odor

182.82 °F (83.79 °C) estimated

Flash point

-156.0 °F (-104.4 °C) PROPELLANT estimated

**Evaporation rate** 

Not available.

Product name: STAINLESS STEEL CLEANER & POLISH Product #: HIL0113455 Version #: 01 Issue date: 02-18-2019 Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%) Vapor pressure Not available. 57 psig @70C estimated

Vapor density

Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water)

Not available.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature

Not available.

**Decomposition temperature** 

Not available.

Viscosity

Not available.

Other information

**Explosive properties** 

Not explosive.

**Oxidizing properties** 

Not oxidizing.

Specific gravity

0.9 estimated

## 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions. Hazardous polymerization does not occur.

Possibility of hazardous

reactions

Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Conditions to avoid

Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation

No adverse effects due to inhalation are expected.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact Ingestion Direct contact with eyes may cause temporary irritation.

Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis.

Information on toxicological effects

**Acute toxicity** 

May be fatal if swallowed and enters airways.

Components

**Species** 

**Test Results** 

Butane (CAS 106-97-8)

<u>Acute</u>

Inhalation

LC50 Mouse

1237 mg/l, 120 Minutes

52 %, 120 Minutes

Rat

1355 mg/l

Product name: STAINLESS STEEL CLEANER & POLISH

Product #: HIL0113455 Version #: 01 Issue date: 02-18-2019

Components Species **Test Results** Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8) Acute Dermal LD50 Rabbit > 2000 mg/kg > 2000 mg/kg, 24 Hours Inhalation LC50 Rat > 7.5 mg/l, 6 Hours > 4.6 mg/l, 4 Hours Oral LD50 Rat > 5000 mg/kg Propane (CAS 74-98-6) <u>Acute</u> Inhalation LC50 Mouse 1237 mg/l, 120 Minutes 52 %, 120 Minutes Rat 1355 mg/l 658 mg/l/4h \* Estimates for product may be based on additional component data not shown. Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation. Respiratory or skin sensitization

irritation

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

May be fatal if swallowed and enters airways.

12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)

LC50

Aquatic

Fish

Rainbow trout, donaldson trout

2.9 mg/l, 96 hours

**Test Results** 

(Oncorhynchus mykiss)

\* Estimates for product may be based on additional component data not shown.

No data is available on the degradability of this product. Persistence and degradability

Product name: STAINLESS STEEL CLEANER & POLISH Product #: HIL0113455 Version #: 01 Issue date: 02-18-2019

#### Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Butane 2.89 Propane 2.36

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

## 14. Transport information

DOT

**UN number** UN1950

UN proper shipping name

Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

Class Subsidiary risk Label(s)

2.1

2.1

Packing group

Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions Packaging exceptions N82 306

Packaging non bulk

None

Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking.

#### IATA

UN number UN1950

UN proper shipping name

Aerosols, flammable

Transport hazard class(es)

Class

2.1

Subsidiary risk Label(s)

2.1

Packing group

Not applicable.

**Environmental hazards** 

No.

**ERG Code** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft Cargo aircraft only

Allowed with restrictions.

**Packaging Exceptions** 

LTD QTY

**IMDG** 

**UN number** UN1950 **AEROSOLS** UN proper shipping name

Product name: STAINLESS STEEL CLEANER & POLISH Product #: HIL0113455 Version #: 01 Issue date: 02-18-2019 Transport hazard class(es)

Class

2.1

Subsidiary risk

Label(s)

2.1

Packing group

Not applicable.

**Environmental hazards** 

Marine pollutant No.

F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Read safety

instructions, SDS and emergency procedures before handling.

Packaging Exceptions

LTD QTY Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT

**EmS** 



IATA; IMDG



**General information** 

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

# 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

SARA 304 Emergency release notification

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Product name: STAINLESS STEEL CLEANER & POLISH

Product #: HIL0113455 Version #: 01 Issue date: 02-18-2019

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

#### SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

# US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Butane (CAS 106-97-8)

#### US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

#### US. New Jersey Worker and Community Right-to-Know Act

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

## US. Pennsylvania Worker and Community Right-to-Know Law

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

#### US. Rhode Island RTK

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

## **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Product name: STAINLESS STEEL CLEANER & POLISH

Product #: HIL0113455 Version #: 01 Issue date: 02-18-2019

Country(s) or region

Inventory name

On inventory (yes/no)\*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date

02-18-2019

Version #

01

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

Revision information

Product and Company Identification: Alternate Trade Names

Product name: STAINLESS STEEL CLEANER & POLISH Product #: HIL0113455 Version #: 01 Issue date: 02-18-2019

# Super Shine-All



# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** 

SUPER SHINE-ALL

Other means of identification

SDS number

578N65A

Product code

HIL00808

Recommended use

**Neutral Cleaner** 

Recommended restrictions

For Labeled Use Only

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

HILLYARD INDUSTRIES

Address

302 North Fourth St.

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

\*HL0080825

involving chemicals)

# 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Serious eye damage/eye irritation

Category 2B

**Environmental hazards** 

Not classified.

**OSHA** defined hazards

Not classified.

Label elements

Hazard symbol

None.

Signal word

Warning

Hazard statement

Causes eye irritation.

Precautionary statement

Prevention

Wash thoroughly after handling. Observe good industrial hygiene practices.

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage

Store away from incompatible materials.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law. Waste from normal use may be sewered to a

public-owned treatment works in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry container for recycling

or reconditioning.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist. Use with adequate ventilation. Wash thoroughly after handling. Do not take internally. Keep container closed when not in use. If prolonged or repeated contact is possible, wear rubber or other impervious gloves and splash goggles. Use only as directed: Improper dilution can lead to adverse health effects.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Fragrance		No Data	0.3
Camphor		76-22-2	0.003
Pin-2(3)-ene		80-56-8	0.0004
Other components below re	eportable levels		90 - 100

#### Additional components

Chemical name	Common name and synonyms	CAS number	%
Fatty Acids, Tall-oil, Triethanolamine Salts		67784-78-5	2 - < 3.05
Tall Oil, Potassium Salt		68647-71-2	0.5 - < 1

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Continue rinsing.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and delayed

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

Indication of immediate medical attention and special

treatment needed

General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Special protective equipment

During fire, gases hazardous to health may be formed.

and precautions for firefighters

Fire fighting

Move containers from fire area if you can do so without risk.

equipment/instructions Specific methods

General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

# **Environmental precautions**

#### 7. Handling and storage

Precautions for safe handling

Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage. including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

Value

# 8. Exposure controls/personal protection

#### Occupational exposure limits

Components

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air C	ontaminants (2	29 CFR 1910.1000)
-------------------------------------	----------------	-------------------

	.,,,,		
Camphor (CAS 76-22-2)	PEL	2 mg/m3	
<b>US. ACGIH Threshold Limit Values</b>	S		
Components	Type	Value	
Camphor (CAS 76-22-2)	STEL	3 ppm	
	TWA	2 ppm	
Pin-2(3)-ene (CAS 80-56-8)	TWA	20 ppm	
US. NIOSH: Pocket Guide to Chem	nical Hazards		
Components	Туре	Value	*:
Camphor (CAS 76-22-2)	TWA	2 mg/m3	

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

General ventilation normally adequate.

Type

controls

Individual protection measures, such as personal protective equipment

Avoid contact with eyes. Where splashing of concentrate is a concern, use protective glasses with Eye/face protection

side shield

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear suitable protective clothing. None normally required. If unable to avoid prolonged or

repeated contact with skin, wear impervious clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

None known.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** Clear, light amber liquid (darkens with age)

Physical state Liquid. Form Liquid.

Light Amber, Will darken with age. Color

Odor Sassafras odor Odor threshold Not available pH 8 - 9 (diluted 1:42) 8 - 9 (diluted 1:128) 9 - 9.3 Concentrate

Melting point/freezing point Not available 205 °F (96.11 °C) Initial boiling point and boiling

range

Flash point > 205.0 °F (> 96.1 °C) Tag Closed Cup

**Evaporation rate** < 1 Ethyl ether = 1 Flammability (solid, gas)

Material name: SUPER SHINE-ALL

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 17.63 mm Hg

0.6314 Air=1

Vapor density Relative density

1.008 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient (n-octanol/water) Not available

Auto-ignition temperature

Not available

Decomposition temperature

Not available

Viscosity

Not available

Other information

Density

8.39 lb/gal

**Explosive properties** 

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

87 - 88 %

VOC

0.62 %

# 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** 

Conditions to avoid

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected.

Eve contact

Causes eve irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

toxicological characteristics Information on toxicological effects

**Acute toxicity** 

Not known.

Components

**Species** 

**Test Results** 

Pin-2(3)-ene (CAS 80-56-8)

<u>Acute</u>

Oral

LD50

Rat

3700 mg/kg

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Causes eye irritation.

irritation

Material name: SUPER SHINE-ALL

SDS US

#### Respiratory or skin sensitization

ACGIH sensitization

TURPENTINE AND SELECTED MONOTERPENES

Dermal sensitization

(CAS 80-56-8)

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Prolonged inhalation may be harmful.

**Chronic effects** 

Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Product Species Test Results** 

SUPER SHINE-ALL

Aquatic

Crustacea FC50

Daphnia

94.6673 mg/l, 48 hours estimated

Fish

LC50

Fish

2204.5525 mg/l, 96 hours estimated

Persistence and degradability

Bioaccumulative potential

No data is available on the degradability of this product.

Partition coefficient n-octanol / water (log Kow)

Pin-2(3)-ene

4.83

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment requirements.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

Material name: SUPER SHINE-ALL

SDS US

HIL00808 Version #: 05 Revision date: 02-27-2019 Issue date: 03-11-2015

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

# 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

categories

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

## California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov. California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region Inventory name

On inventory (yes/no)\*

Canada

Domestic Substances List (DSL)

No No

United States & Puerto Rico

Non-Domestic Substances List (NDSL)

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the government.

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date

03-11-2015

Revision date

02-27-2019

Version #

05

**Further information** 

This product meets Green Seal™ Standard GS-37 based on effective performance, concentrated volume, minimized/recycled packaging, and protective limits on VOCs and human & environmental

toxicity. GreenSeal.org.

**HMIS®** ratings

Health: 1

Flammability: 0 Physical hazard: 0

Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or

disposal of these products.

Revision information

Product and Company Identification: Product and Company Identification

Physical & Chemical Properties: Multiple Properties

Toxicological Information: Toxicological Data

GHS: Classification

# Suprox

# HILLYARD The Cleaning Resource\*

# **SAFETY DATA SHEET**

#### 1. Identification

**Product identifier** 

SUPROX

Other means of identification

SDS number

548N-84A

Product code

HIL00704

Н

Recommended use

General Cleaner

Recommended restrictions

For Labeled Use Only

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

HILLYARD INDUSTRIES

Address

302 North Fourth St.

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

\*HIL0070422

involving chemicals)

# 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Serious eye damage/eye irritation

Category 1

**Environmental hazards** 

OSHA defined hazards

Not classified. Not classified.

Label elements



Signal word

Danger

**Hazard statement** 

Causes serious eye damage. May be harmful if swallowed. May cause respiratory irritation. May cause skin irritation.

Precautionary statement

Prevention

Do not get in eyes, on skin, and clothing. Do not ingest. If prolonged or repeated contact with concentrate is possible, wear rubber or other impervious gloves and splash goggles. Use only as directed: Imprepare dilution can lead to adverse health effects.

directed: Improper dilution can lead to adverse health effects.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin: Wash with plenty of water. Get medical attention if irritation develops and persists If inhaled: Remove person to fresh air and keep comfortable for breathing. Get medical attention if you feel unwell.

Storage

Store away from incompatible materials. Keep container tightly closed.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law. Waste from normal use may be sewered to a

public-owned treatment works in compliance with applicable federal, state and local requirements.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
*Complex Surfactant Blend		Proprietary	5 - < 10
Hydrogen Peroxide		7722-84-1	5 - < 10
Fragrance		8008-57-9	< 0.3
Other components below re	portable levels	W	80 - < 90

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth thoroughly. If swallowed, do

NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into

the lungs.

Most important

symptoms/effects, acute and

delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

#### Environmental precautions

Material name: SUPROX

Avoid discharge into drains, water courses or onto the ground.

HIL00704 Version #: 02 Revision date: 05-22-2019 Issue date: 02-24-2015

#### 7. Handling and storage

Precautions for safe handling

Do not get this material in contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US, OSHA Table	2-1 Limi	te for Air	Contaminante	/20 CED	1010 1000)
US. USHA TABLE	# 4-1 LIIII	LS IUI AII	Comaminants	129 CFR	1910.10001

Components	Туре	Value
Hydrogen Peroxide (CAS 7722-84-1)	PEL	1.4 mg/m3
		1 ppm
US. ACGIH Threshold Limit Values		
Components	Туре	Value
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1 ppm
US. NIOSH: Pocket Guide to Chemie	cal Hazards	
Components	Туре	Value
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1.4 mg/m3
		1 ppm

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

# Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes. Chemical safety goggles when working with concentrate.

Skin protection

Hand protection

Use protective gloves when dealing with the concentrate. Nitrile, butyl rubber or neoprene gloves

are recommended.

Other

Avoid contact with the skin. Wear appropriate chemical resistant clothing. Wear suitable protective

clothing and gloves.

Respiratory protection

No personal respiratory protective equipment normally required. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved

respirator must be worn.

Thermal hazards

None known.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

#### 9. Physical and chemical properties

Appearance

Clear, yellow liquid (yellow color fades with age)

Physical state Form

Liquid. Liquid.

Color

Colorless to light yellow

Odor

Citrus odor

Odor threshold

Not Available

3.50 - 4.60

Ha

6.50 - 7.50 Diluted 1:25

Material name: SUPROX

Melting point/freezing point

Not Available

Initial boiling point and boiling

206 °F (96.67 °C)

range

Flash point

> 200.0 °F (> 93.3 °C) Tag Closed Cup

Evaporation rate

< 1 Ethyl ether = 1

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

17.6 mm Ha

Vapor density

0.62 Air=1

Relative density

1.027 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient

Not Available

(n-octanol/water)

Not Available

Auto-ignition temperature Decomposition temperature

Not Available

Viscosity

Not Available

Other information

Density

8.55 lb/gal

**Explosive properties** 

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

92 - 94 %

VOC

0 %

# 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

Conditions to avoid

No dangerous reaction known under conditions of normal use.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Metals. Strong reducing agents. Alkalies. Combustible material. Heavy Metal Salts No hazardous decomposition products are known.

Hazardous decomposition products

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Causes serious eye damage.

Ingestion

Expected to be a low ingestion hazard.

SUPROX

5000 mg/kg

Symptoms related to the physical, chemical and

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

toxicological characteristics

Information on toxicological effects

Acute toxicity

Not known.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Causes serious eye damage.

irritation

Material name: SUPROX SDS US

HIL00704 Version #: 02 Revision date: 05-22-2019 Issue date: 02-24-2015

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrogen Peroxide (CAS 7722-84-1)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Prolonged inhalation may be harmful.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations. Buyer assumes all risk and liability associated with disposal of this product (original concentration or

dilution) in violation of applicable law.

Local disposal regulations

Hazardous waste code

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned

treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment

requirements.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Not established.

Annex II of MARPOL 73/78 and

the IBC Code

Material name: SUPROX
HIL00704 Version #: 02 Revision date: 05-22-2019 Issue date: 02-24-2015

#### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Hydrogen Peroxide (CAS 7722-84-1)

1000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name

CAS number

Reportable quantity

(pounds)

**Threshold** 

(pounds)

planning quantity

Threshold

Threshold planning quantity,

lower value (pounds)

planning quantity, upper value

(pounds)

Hydrogen Peroxide

7722-84-1

1000

1000

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

categories

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada Canada

Domestic Substances List (DSL)

Yes No

United States & Puerto Rico

Non-Domestic Substances List (NDSL) Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date

02-24-2015

Revision date

05-22-2019

Version #

Further information

This product meets Green Seal™ Standard GS-37 based on effective performance, concentrated volume, minimized/recycled packaging and protective limits on: VOCs and human & environmental toxicity. Acute toxicity, skin and eye damage met requirements at the as-used dilution, as specified

for closed dilution systems. GreenSeal.org.

HMIS® ratings

Health: 3 Flammability: 0

Material name: SUPROX

Physical hazard: 1

HIL00704 Version #: 02 Revision date: 05-22-2019 Issue date: 02-24-2015

#### Disclaimer

Revision information

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

This document has undergone significant changes and should be reviewed in its entirety.

# Suprox Multi-Purpose

# HILLYARD The Cleaning Resource

# SAFETY DATA SHEET

#### 1. Identification

**Product identifier** 

Suprox - Multi-Purpose

Other means of identification

SDS number

548N-84A

Product code

HIL00838

\*HIL0083825

Recommended use

General Cleaner

Recommended restrictions

For Labeled Use Only

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

HILLYARD INDUSTRIES

Address

302 North Fourth St. St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax E-mail

(816) 383-8485

regulatoryaffairs@hillyard.com

Emergency telephone # (800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

involving chemicals)

# 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Serious eye damage/eye irritation

Category 1

**Environmental hazards** 

OSHA defined hazards

Not classified.

Label elements



Signal word

Danger

Hazard statement

Causes serious eye damage. May be harmful if swallowed. May cause respiratory irritation. May cause skin irritation.

Precautionary statement

Prevention

Do not get in eyes, on skin, and clothing. Do not ingest. If prolonged or repeated contact with concentrate is possible, wear rubber or other impervious gloves and splash goggles. Use only as

directed: Improper dilution can lead to adverse health effects.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin: Wash with plenty of water. Get medical attention if irritation develops and persists If inhaled: Remove person to fresh air and keep comfortable for breathing. Get medical attention if you feel unwell.

Storage

Store away from incompatible materials. Keep container tightly closed.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law. Waste from normal use may be sewered to a

public-owned treatment works in compliance with applicable federal, state and local requirements.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
*Complex Surfactant Blend		Proprietary	5 - < 10
Hydrogen Peroxide		7722-84-1	5 - < 10
Fragrance		8008-57-9	< 0.3
Other components below reporta	able levels		80 - < 90

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret,

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists,

Eve contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth thoroughly. If swallowed, do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into

the lungs.

Most important

symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Specific methods

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted. General fire hazards

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

#### **Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handling

Do not get this material in contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Type	Value	
Hydrogen Peroxide (CAS 7722-84-1)	PEL	1.4 mg/m3	
		1 ppm	
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1.4 mg/m3	
		1 ppm	

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

#### Individual protection measures, such as personal protective equipment

Eye/face protection

Avoid contact with eyes. Chemical safety goggles when working with concentrate.

Skin protection

Hand protection

Use protective gloves when dealing with the concentrate. Nitrile, butyl rubber or neoprene gloves

are recommended.

Other

Avoid contact with the skin. Wear appropriate chemical resistant clothing. Wear suitable protective

clothing and gloves.

Respiratory protection

No personal respiratory protective equipment normally required. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved

respirator must be worn.

Thermal hazards

None known.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Clear, yellow liquid (yellow color fades with age)

Physical state Form Liquid. Liquid.

Color

Colorless to light yellow

Odor

Citrus odor

Odor threshold

Not Available

На

3.50 - 4.60

6.50 - 7.50 Diluted 1:25

Melting point/freezing point

Not Available

Initial boiling point and boiling

206 °F (96.67 °C)

range

Flash point

> 200.0 °F (> 93.3 °C) Tag Closed Cup

Evaporation rate

< 1 Ethyl ether = 1

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

17.6 mm Ha

Vapor density

0.62 Air=1

Relative density

1.027 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient

Not Available

(n-octanol/water)

Not Available

Auto-ignition temperature

Not Available

Decomposition temperature

Viscosity

Not Available

Other information

Density

8.55 lb/gal

**Explosive properties** 

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

92 - 94 %

VOC

0 %

### 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Metals. Strong reducing agents. Alkalies. Combustible material. Heavy Metal Salts

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

# Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Causes serious eye damage.

Ingestion

Expected to be a low ingestion hazard.

Suprox - Multi-Purpose

5000 mg/kg

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity

Not known.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrogen Peroxide (CAS 7722-84-1)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Prolonged inhalation may be harmful.

**Chronic effects** 

Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

**Disposal instructions** 

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law.

Local disposal regulations

Hazardous waste code

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment requirements.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

#### 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Hydrogen Peroxide (CAS 7722-84-1)

1000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name

CAS number

Reportable

Threshold

Threshold

Threshold

quantity (pounds)

planning quantity (pounds)

planning quantity, lower value (pounds)

planning quantity, upper value (pounds)

Hydrogen Peroxide

7722-84-1

1000

1000

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Serious eye damage or eye irritation

categories

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada Canada Domestic Substances List (DSL)

Yes No

United States & Puerto Rico

Non-Domestic Substances List (NDSL) Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

#### 16. Other information, including date of preparation or last revision

Issue date

02-24-2015

Revision date

05-22-2019

Version #

02

**Further information** 

This product meets Green Seal™ Standard GS-37 based on effective performance, concentrated volume, minimized/recycled packaging and protective limits on: VOCs and human & environmental

toxicity. Acute toxicity, skin and eye damage met requirements at the as-used dilution, as specified

for closed dilution systems. GreenSeal.org.

HMIS® ratings

Health: 3 Flammability: 0 Physical hazard: 1

Material name: Suprox - Multi-Purpose

HIL00838 Version #: 02 Revision date: 05-22-2019 Issue date: 02-24-2015

#### Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.

# Terro Ant Killer Liquid Ant Baits

# SAFETY DATA SHEET

#### Issuing Date 6/02/2015



The supplier identified below generated this SDS using the UL SDS template. UL did not test, certify, or approve the substance described in this SDS, and all information in this SDS was provided by the supplier or was reproduced from publically available regulatory data sources. UL makes no representations or warranties regarding the completeness or accuracy of the information in this SDS and disclaims all liability in connection with the use of this information or the substance described in this SDS. The layout, appearance and format of this SDS is © 2014 UL LLC. All rights reserved.

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

T303

**Product Name** 

**Terro Ant Killer Liquid Ant Baits** 

Other means of identification

Synonyms

Ant Bait

Size

2.20 fl. oz.

Recommended use of the chemical and restrictions on use

Recommended Use

Insecticide - Crawling Bug - Non-Aerosol

Uses advised against

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

#### Details of the supplier of the safety data sheet

**Supplier Name** 

Senoret Chemical Company, Inc.

Supplier Address

69 North Locust St.

Lititz PA 17543

US

**Supplier Phone Number** 

Phone:(717) 626-2125 Fax:(717) 626-1912

Contact Phone(800) 800-1819

**Emergency Phone Number** 

(800) 424-9300

**Regulatory Licenses** 

EPA Reg. No. 149-8

#### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)



#### GHS Label elements, including precautionary statements

#### **Emergency Overview**

None of the ingredients of this material meet the definition of "Hazardous Chemical" given in OSHA Hazard communication regulation 29CFR1910.1200(C)

Appearance Clear

Physical State Liquid

**Odor Sweet** 

#### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

#### **Unknown Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity

#### Other information

No information available

#### **Interactions with Other Chemicals**

No information available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Sucrose	57-50-1	40 - 70	*
Sodium borate	1303-96-4	3 - 7	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret



### 4. FIRST AID MEASURES

#### First aid measures

**General Advice** 

Show this safety data sheet to the doctor in attendance.

**Eye Contact** 

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist,

call a physician.

**Skin Contact** 

Wash skin with soap and water. In the case of skin irritation or allergic reactions

see a physician.

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Ingestion

Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a

physician.

#### Most important symptoms and effects, both acute and delayed

Most Important Symptoms and No information available.

**Effects** 

# Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

#### Specific Hazards Arising from the Chemical

No information available.

#### **Hazardous Combustion Products**

Carbon oxides.

#### **Explosion Data**

Sensitivity to Mechanical Impact

No.

Sensitivity to Static Discharge

No.

# Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** 

Avoid contact with eyes.

**Environmental Precautions** 

**Environmental Precautions** 

Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for Containment** 

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Pick up and transfer to properly labeled containers.

#### 7. HANDLING AND STORAGE

STORAGE & DISPOSAL: Do not contaminate water, food, or feed by storage and disposal.

STORAGE: Store in a cool dry place. Do not store where children or animals may gain access.

PESTICIDE DISPOSAL AND CONTAINER HANDLING: Nonrefillable Container. Do not reuse or refill this container. If empty: Place in trash or offer for recycling if available. If partly filled:

Incompatible Products

None known based on information supplied.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Guidelines**

Chemi	cal Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
17,00	crose 7-50-1	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 15 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust
	m borate 3-96-4	STEL: 6 mg/m³ inhalable fraction TWA: 2 mg/m³ inhalable fraction		TWA: 5 mg/m <sup>3</sup>

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

#### Appropriate engineering controls



**Engineering Measures** 

Showers

Eyewash stations Ventilation systems

#### Individual protection measures, such as personal protective equipment

Eye/Face Protection

No special protective equipment required.

Skin and Body Protection

Wear protective gloves and protective clothing.

Respiratory Protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** 

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling

the product.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical and Chemical Properties

**Physical State Appearance** 

Liquid Clear

Sweet

Color

No information available

Odor **Odor Threshold** 

None known

None known

None known

None known

None known

None known

Remarks/ Method

No information available

**Property** pН

<u>Values</u> 8.1 N/A / -13 °F Melting / freezing point 100 °C / 212 °F Boiling point / boiling range > 300 °F **Flash Point Evaporation Rate** No data available

Flammability (solid, gas) Flammability Limit in Air

No data available

No data available

Upper flammability limit Lower flammability limit No data available Vapor pressure No data available Vapor density No data available **Specific Gravity** 1.21

Water Solubility Soluble in water Solubility in other solvents Partition coefficient: n-octanol/waterNo data available Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity

**Explosive properties Oxidizing Properties** 

No data available No data available

No data available

None known None known None known None known None known None known None known

None known None known None known

# Other Information

Softening Point **VOC Content (%)** Particle Size

No data available No data available No data available

**Particle Size Distribution** 



# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available.

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

#### Conditions to avoid

None known based on information supplied.

#### Incompatible materials

None known based on information supplied.

#### **Hazardous Decomposition Products**

Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation

Specific test data for the substance or mixture is not available.

**Eye Contact** 

Specific test data for the substance or mixture is not available.

**Skin Contact** 

Specific test data for the substance or mixture is not available.

Ingestion

Specific test data for the substance or mixture is not available.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium borate 1303-96-4	= >5 g/kg(Rat)	> 5,000 mg/kg (Rabbit)	> 5 mg/L ( Rat ) 4 h

#### Information on toxicological effects

Symptoms

No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

**Mutagenic Effects** 

No information available.



#### Carcinogenicity

None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium borate				
1303-96-4				

Reproductive Toxicity

No information available

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

**Chronic Toxicity** 

No known effect based on information supplied.

**Target Organ Effects** 

No information available

**Aspiration Hazard** 

No information available.

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

#### Persistence and Degradability

No information available.

#### **Bioaccumulation**

No information available

### Other adverse effects

No information available.

#### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local

regulations for additional requirements.

Contaminated Packaging

Dispose of contents/containers in accordance with local regulations.

#### California Hazardous Waste Codes 232

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Sodium borate 1303-96-4	Toxic

#### 14. TRANSPORT INFORMATION

DOT

**Proper Shipping Name** 

**Hazard Class** 

NOT REGULATED

NON-REGULATED

N/A

**TDG** 

Not regulated

MEX

Not regulated

**ICAO** 

Not regulated

IATA

**Proper Shipping Name** 

**Hazard Class** 

Not regulated

NON-REGULATED

N/A

IMDG/IMO

Not regulated

**Hazard Class** 

N/A

RID

Not regulated

**ADR** 

Not regulated

<u>ADN</u>

Not regulated

#### 15. REGULATORY INFORMATION

#### International Inventories

**TSCA** 

Complies

DSL

All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List



#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### **US State Regulations**

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Supplier Trade Secret		Х	Х		-
Sodium borate 1303-96-4	х	Х	X		Х

**EPA Pesticide Registration Number 149-8** 

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

Pesticide Label Signal Word: Caution

# **16. OTHER INFORMATION**

**NFPA** 

Health Hazards 1

Flammability 0

Instability 0

Physical and

**HMIS** 

Health Hazards 1\*

Flammability 0

Physical Hazard 0

Chemical Hazards - Personal Protection

Chronic Hazard Star Legend \* = Chronic Health Hazard

**Prepared By** 

Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501

**Issuing Date** 

03-Nov-2010

Revision Date Revision Note 05-Oct-2014 No information available

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet** 

# Terro Spider Killer II

# **Material Safety Data Sheet**

MSDS No: 1074

Intl Info Phone:

Senoret Chemical Company 69 N. Locust Street Lititz, PA 17543

Domestic Emergency Phone International Emergency Phone Information Phone

800-424-9300 703-527-3887 800-800-1819 717-626-2125

SECTION I: MATERIAL IDENTIFICATION

Product Number/Size: T2301

Ounce (fluid)

Trade Name: Terro® Spider Killer II

Also Known As: Spider Killer Aerosol

**Description:** Spider Killer Aerosol

Chemical Composition: Pressurized Liquid Aerosol

Regulatory Licenses: EPA Reg. No. 1021-1691-149

**SECTION II: INGREDIENTS** 

Hazardous Ingredient (s)	% BY WT	CAS#	OSHA/TWA	PEL/STEL	ACGIH/TWA	TLV/STEL
Prallethrin (ETOC®)	<1%	023031-36-9	N/A	N/A	N/A	N/A
Esfenvalerate	<1%	066230-04-4	N/A	N/A	N/A	N/A
MGK®-264 (N-Octyl Bicycloheptene Dic	<1%	000113-48-4	N/A	N/A	N/A	N/A
Petroleum Distillates	<1%	64742-47-8	N/A	N/A	N/A	N/A
Liquefied Petroleum Gas	<20%	068476-86-8	1800 mg/m3	1800 mg/m3	1800 mg/m3	N/A

SECTION III: PHYSICAL DATA

Boiling Point: Not Determined

Vapor Pressure (mm Hg): Not Determined

Viscosity: Not Determined Odor: Mild Sweet Odor.

Vapor Density (AIR=1): Heavier than Air

Specific Gravity (Water=1): 0.996

Bulk Density: Not Determined

Percent, Volitile by Volume %: Not Available

Freezing Point: Not Available

Evaporation Rate (Xylene=1): Not Available

Solubility in Water: Partially Miscible in water

Physical State: Liquified gases and liquid

Appearance: Milky Emulsion

pH: 6.65

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (method): Not Determined

NFPA Health Rating: 1

Autoignition Temp.: Not Available

NFPA Fire Rating: 4

Flammable Lel: Not Determined

NFPA Reactivity Rating: 1

Flammable Uel: Not Determined

Extinguishing Material: CO2, dry chemical, foam, water

**Hazardous Products** 

of Combustion: Hydrogen Cyanide, Carbon Monoxide, Carbon Dioxide

Procedures:

Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep

nearby containers and eqipment cool with a water stream.

SECTION V: HEALTH HAZARD DATA

General Statement: Material is considered hazardous per 29 CFR 1910.1200.

Occupational Exposure Limit: See Section II

Effects of Over Exposure: None Expected

Carcinogenicity: None listed per OSHA, NTP, or IARC.

Chronic Effects: None known.

Rec. Exp. Limits: See Section II

Potential Health Effects: Skin Irritation, Nasal/Respiratory Irritation, Eye Irritation

Acute Oral: >5000 mg/kg Rat

Acute Dermal: >2000 mg/kg Rabbit

Acute Inhalation: 2.93 mg/L Rat

Eye Irritation: Irritation clearing by Day 7

Skin Irritation: No irritation at 72 hours

Sensitization: Possible Dermal Sensitizer to albino guinea

Symptoms/Effects of Overexposure First Aid Skin Irritation Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Inhalation Irritation Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove Eye Irritation contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. Ingestion Irritation If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give any liquid to the person. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.

#### SECTION VI: REACTIVITY DATA

Stability: Stable

Conditions to avoid: Strong acids and bases, oxidizers

Materials to avoid: None Known

**Hazardous Decomposition:** Not Determined

Conditions to avoid: Strong acids and bases, oxidizers

Hazardous Polymerization: Will not occur Conditions to avoid: None Known

#### SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be taken if material is Shut off ignition sources. Stop release, if possible without risk, Dike or contain release, if possible, and if immediate released or spilled: response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce

vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

Waste Disposal Method: Dispose in accordance with local, provincial and national regulations.

Product Disposal Method: Place in trash or offer for recycling if available. Call your local solid waste agency for disposal instructions.

#### SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection: None Required

Protective Gloves: Not Required

Eve Protection: Take prudent precautions to avoid contact with eyes

Protective Clothing: Take prudent precautions to avoid contact with skin and clothing

Ventilation: Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be

necessary.

Other Protective Equipment: None

Protection Note: Personal protection information provided in this Section is based upon general information as to normal uses and

conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial

hygienist or other qualified professional be sought.

#### SECTION IX: SPECIAL PRECAUTIONS

Storage and Handling: PESTICIDE STORAGE: Store only in a cool, dry area inaccessible to children and pets. Protect from freezing and

heat. Keep container tightly closed to prevent evaporation. Do not contaminate water, food or feed by storage and

Other Precautions: None

Precaution Note: None

#### SECTION X: ECOLOGICAL INFORMATION

Ecotoxicity: Not Determined

Environmental Fate: Not Persistent

#### SECTION XI: TRANSPORTATION INFORMATION

#### DOT HAZARD DESCRIPTION

**DOT Proper Shipping Name:** Limited Quantity

<u>Identification Number:</u> None <u>DOT Hazard Class/Division:</u> None

Packaging Group: None

Packaging Instructions: 49 CFR 172.315

Special Instructions: None

Placard: None

Emergency Response Guide#: None

US Surface Freight Class: See NMFTA Manual

#### IATA CLASSIFICATION

IATA Proper Shipping Name: Not Labeled for Air Shipments

IATA Identification Number: N/A
IATA Hazard Class/Division: N/A

Packaging Group: None
IATA Bulk Packaging Inst: N/A
IATA Shipping Notes: N/A

#### IMO CLASSIFICATION

IMO Proper Shipping Name: Limited Quantity

IMO Identification Number: None
IMO Hazard Class/Division: None
Packaging Group: None
IMO Shipping Notes: None
IMO Bulk Packaging Inst: None
IMO Stowage Category: None

#### SECTION XII: REGULATORY INFORMATION

SARA Title III: Not Regulated

SARA Product Classification: Not Classified

Acute: Yes
Chronic: No
Fire: No
Reactivity: No

Pressure Generating: Pressure Generating

311/312 Hazard Categories: Not Subject 313 Reportable Ingredients: Not Subject

TSCA Regulatory; All chemical substances found in this product comply with the TSCA's inventory reporting requirements

State Regulations: Senoret Chemical Co. is unaware of any local, state or federal regulations, which define the active ingredients as hazardous. As of the preparation date, this product did not contain a chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR

Part 372.

Proposition 65 Statement: None Listed

European Classification:

#### SECTION XIII: OTHER INFORMATION

Memo: While this information and recommendations set forth are believed to be accurate as of the date hereof, Woodstream

Corp. makes no warranty with respect hereto and disclaims all liability from reliance thereon.

Date MSDS Prepared:

6/22/2012

Contact:

Mark Mongiovi

Supercedes Date:

Title:

Regulatory Affairs

# Terro Spider Killer III

# **Material Safety Data Sheet**

MSDS No: 1100

**Domestic Emergency Phone** 

International Emergency Phone

703-527-3887 800-800-1819 717-626-2125

800-424-9300

69 N. Locust Street Information Phone Lititz, PA 17543 Intl Info Phone:

SECTION I: MATERIAL IDENTIFICATION

Product Number/Size: T2302

Ounce (fluid)

Trade Name: Terro® Spider Killer 3 Also Known As: Spider Killer Aerosol

**Description:** Insecticide Liquid

Senoret Chemical Company

Chemical Composition: Pressurized Liquid Aerosol

Regulatory Licenses: EPA Reg. No. 149-18

**SECTION II: INGREDIENTS** 

Non-Hazardous Component (s)

% BY WT

CAS#

Chemical Formula

**Pyrethrins** 

0.05

8003-34-7

N/A

Deltamethrin

0.02

52918-63-5

N/A

SECTION III: PHYSICAL DATA

Boiling Point: Not Determined

Vapor Pressure (mm Hg): Not Determined

Viscosity: 356 cps at 20 C Odor: Faint aromatic, faint fatty-oil like

Vapor Density (AIR=1): Not Determined

Specific Gravity (Water=1): 0.989 g/cm3

Bulk Density: 7.99 lbs/gal

Percent, Volitile by Volume %: Not Available

Freezing Point: Not Determined

Evaporation Rate (Xylene=1): Not Available

Solubility in Water: Emulsifiable in Water

Appearance: Off-white

Physical State: Liquid

pH: 5.3

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Flash Point (method): 142 F

NFPA Health Rating: 1

Autoignition Temp.: Not Established

NFPA Fire Rating: 2

Flammable Lel: Not Determined

NFPA Reactivity Rating: 0

Flammable Uel: Not Determined

Extinguishing Material: CO2, dry chemical, foam, water

Hazardous Products

of Combustion: Carbon Oxides, Hydrocarbons, ETC

Special Fire Fighting

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved (or

equivalent) and full protective gear. Procedures:

SECTION V: HEALTH HAZARD DATA

General Statement: Material is an article pursuant to 29 CFR 1910.1200.

Occupational Exposure Limit: See Section II

Effects of Over Exposure: Irritation to eyes, skin and nose. If ingested, may cause abdominal cramping.

Carcinogenicity: None listed per OSHA, NTP, or IARC.

Chronic Effects: None known.

Rec. Exp. Limits: See Section II

Potential Health Effects: Slight Skin Irritation, Nasal/Respiratory Irritation

Acute Oral: >5000 mg/kg rat

Acute Dermal: >5000 mg/kg rat

Acute Inhalation: >4.53 mg/L Rat

Eve Irritation: Non-irritating

Skin Irritation: Slightly irritating

Sensitization: Sensitizer

Route of Entry Symptoms/Effects of Overexposure First Aid

Eye

Irritation

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call

a poison control center or doctor for treatment advice.

Skin

Irritation

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation

Irritation

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Ingestion

Abdominal cramping

Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by

mouth to an unconscious person.

SECTION VI: REACTIVITY DATA

Stability: Stable

Conditions to avoid: Ingition sources

Materials to avoid: None

Hazardous Decomposition: Carbon oxides, hydrocarbons, etc

Conditions to avoid: Ignition sources

Hazardous Polymerization: Will not occur

Conditions to avoid: N/A

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be taken if material is Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate released or spilled: response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce

vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

Waste Disposal Method: Dispose in accordance with local, provincial and national regulations.

Product Disposal Method: Place in trash or offer for recycling if available. Call your local solid waste agency for disposal instructions.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use in a well ventilated area.

Protective Gloves: Impervious gloves

Eve Protection: Safety glasses or goggles.

Protective Clothing: Take prudent precautions to avoid contact with skin and clothing

Ventilation: Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be

necessary.

Other Protective Equipment: None

Protection Note: Personal protection information provided in this Section is based upon general information as to normal uses and

conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial

hygienist or other qualified professional be sought.

SECTION IX: SPECIAL PRECAUTIONS

Storage and Handling: PESTICIDE STORAGE: Store only in a cool, dry area inaccessible to children and pets. Protect from freezing and

heat. Keep container tightly closed to prevent evaporation. Do not contaminate water, food or feed by storage and

Other Precautions: None

Precaution Note: None

SECTION X: ECOLOGICAL INFORMATION

Ecotoxicity: This product is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning

of equipment or disposal of equipment washwaters. This product is toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this prouduct or allow it to drift to blooming crops or weeds if bees

are visiting the treatment area.

Environmental Fate: Not Persistent

# SECTION XI: TRANSPORTATION INFORMATION

#### DOT HAZARD DESCRIPTION

**DOT Proper Shipping Name:** Limited Quantity

Identification Number: None

**DOT Hazard Class/Division:** None

Packaging Group: None

Packaging Instructions: 49 CFR 172.315

Special Instructions: None

Placard: None

Emergency Response Guide#: None

US Surface Freight Class: See NMFTA Manual

#### IATA CLASSIFICATION

IATA Proper Shipping Name: Not Labeled for Air Shipments

IATA Identification Number: N/A

IATA Hazard Class/Division: N/A

Packaging Group: None

IATA Bulk Packaging Inst: N/A

IATA Shipping Notes: N/A

#### IMO CLASSIFICATION

IMO Proper Shipping Name: Limited Quantity

IMO Identification Number: None

IMO Hazard Class/Division: None

Packaging Group: None

IMO Shipping Notes: None

IMO Bulk Packaging Inst: None

IMO Stowage Category: None

#### SECTION XII: REGULATORY INFORMATION

SARA Title III: Not Regulated

SARA Product Classification: Not Classified

Acute: Yes

Chronic: Yes

Fire: Yes

Reactivity: No

Pressure Generating: No

311/312 Hazard Categories: Not Subject

313 Reportable Ingredients: N/A

TSCA Regulatory: None Listed.

State Regulations: Senoret Chemical Company is unaware of any local, state or federal regulations, which define the active Ingredients

as hazardous. As of the preparation date, this product did not contain a chemical or chemicals subject to the

reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and

Proposition 65 Statement: None Listed

European Classification:

#### SECTION XIII: OTHER INFORMATION

Memo: While this information and recommendations set forth are believed to be accurate as of the date hereof, Woodstream

Corp. makes no warranty with respect hereto and disclaims all liability from reliance thereon.

Date MSDS Prepared:

8/31/2012

Contact:

Mark Mongiovi

Supercedes Date:

Title:

Regulatory Affairs

# Top Clean

# HILLYARD The Cleaning Resource\*

# **SAFETY DATA SHEET**

#### 1. Identification

Product identifier

**TOP CLEAN** 

Other means of identification

SDS number

565N-191A

Product code

HIL00810

Recommended use

General Cleaner

Recommended restrictions

For Labeled Use Only

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

HILLYARD INDUSTRIES

Address

302 North Fourth St.

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail

regulatoryaffairs@hillyard.com

Emergency telephone #

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or

\*HIL0081025

accident involving chemicals)

# 2. Hazard(s) identification

Physical hazards

Not classified.

Health hazards

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 1

**Environmental hazards** 

OSHA defined hazards

Not classified. Not classified.

Label elements



Signal word

Danger

Hazard statement

Causes skin irritation. Causes serious eye damage.

Precautionary statement

Prevention

Wash thoroughly after handling. Wear eye protection/face protection. Wear protective gloves. Caution: Do not get in eyes, on skin, or clothing. Use only with adequate ventilation. Do not breathe spray mist. (Inhalation of fine fog mist can cause irritation of mucous membranes.) Keep container closed when not in use. Wash thoroughly after handling. Use splash goggles. If prolonged or repeated contact is possible, wear rubber or other impervious gloves. Use only as directed: Improper dilution can lead to adverse health effects.

Response

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. If skin irritation persists get medical attention. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

Storage

Store away from incompatible materials.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law. Waste from normal use may be sewered to a public-owned treatment works in compliance with applicable federal, state and local requirements.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

2.56% of the mixture consists of component(s) of unknown acute oral toxicity. 16.56% of the mixture consists of component(s) of unknown acute inhalation toxicity. 16.56% of the mixture consists of component(s) of unknown acute dermal toxicity.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Alcohols, C9-11, ethoxylated		68439-46-3	10 - < 20
Sodium xylene sulfonate		1300-72-7	.1-<3
Citral	8	5392-40-5	0.004
Other components below reportable le	evels		80 - < 90

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Skin contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion

Rinse mouth. Get medical attention if symptoms occur. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Most important

symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Move containers from fire area if you can do so without risk.

Fire fighting equipment/instructions Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards No unusual fire or explosion hazards noted.

Material name: TOP CLEAN

SDS US

HIL00810 Version #: 02 Revision date: 09-26-2017 Issue date: 12-18-2014

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

Components	Type	Value	Form
Citral (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and vapor.
			vapor.

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

US ACGIH Threshold Limit Values: Skin designation

Citral (CAS 5392-40-5)

Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles) and a face shield. Chemical safety goggles Eye/face protection

when working with concentrate.

Skin protection

Wear appropriate chemical resistant gloves. Hand protection

Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards None known. Wear appropriate thermal protective clothing, when necessary.

General hygiene Always observe good personal hygiene measures, such as washing after handling the material

considerations and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Clear, blue liquid

Physical state Liquid. Form Liquid. Color Blue

Fresh & Clean odor Odor

HIL00810 Version #: 02 Revision date: 09-26-2017 Issue date: 12-18-2014

Material name: TOP CLEAN

**Odor threshold** 

Not available

На

6.5 - 8.5 (1:256 Dilution)

Melting point/freezing point

6.5 - 7.5 (Concentrate) Not available

Initial boiling point and boiling

207 °F (97.22 °C)

range

Flash point

> 210.0 °F (> 98.9 °C) Tag Closed Cup

**Evaporation rate** 

< 1 (ethyl ether = 1)

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

17.59 mm Hg

Vapor density

0.6272 Air =1

Relative density

1.016 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient

Not available

(n-octanol/water)

Auto-ignition temperature

Not available

**Decomposition temperature** 

Not available

Viscosity

Not available

Other information

Density

8.46 lb/gal

Explosive properties

Not explosive.

**Oxidizing properties** 

Not oxidizing.

Percent volatile

81 - 83 %

VOC

0 %

# 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

Conditions to avoid

No dangerous reaction known under conditions of normal use.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation

Prolonged inhalation may be harmful.

Skin contact

Causes skin irritation.

Eye contact

Causes serious eye damage.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause

redness and pain.

Information on toxicological effects

Acute toxicity

Not known.

Material name: TOP CLEAN

Components Species **Test Results** 

Citral (CAS 5392-40-5)

Acute

Oral

LD50

4950 mg/kg

\* Estimates for product may be based on additional component data not shown.

Rat

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

Causes serious eye damage.

irritation

Respiratory or skin sensitization

**ACGIH** sensitization

CITRAL, INHALABLE FRACTION AND VAPOR (CAS

Dermal sensitization

5392-40-5)

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful.

#### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species Test Results	
TOP CLEAN			
Aquatic			
Crustacea	EC50	Daphnia	> 100 mg/l, 48 hours
Fish	LC50	Fish	> 100 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment requirements.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

# 14. Transport information

#### DOT

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not established.

the IBC Code

#### 15. Regulatory information

US federal regulations

All components are on the U.S. EPA TSCA Inventory List.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada

Domestic Substances List (DSL)

Yes

Canada

Non-Domestic Substances List (NDSL)

Yes Yes

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

res

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date

12-18-2014

Revision date

09-26-2017

Version #

02

Material name: TOP CLEAN

~-

**HMIS®** ratings

Health: 1 Flammability: 0

Physical hazard: 0

Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products. HILLYARD cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.

# Urinal Blocks Deodorizer

Date Issued:

4/23/2015

# CTION 1: IDENTIFICATION OF THE PREPARATION AND THE COMPANY

PRODUCT NAME: Urinal Blocks (Cherry)

**RECOMMENDED USE:** Deodorizer

**RESTRICTIONS ON USE:** For intended use only

Supplier:

Hillyard Corporate 302 North 4th Street

St Joseph MO 64501 USA

TELEPHONE: +1-816-233-1321

FAX: +1-816-383-8485

EMERGENCY CONTACT (spill/release): 800-424-9300

**ITEM NUMBER: HIL15036** 

# Section 2: HAZARDS IDENTIFICATION

<u>General</u>: Contains small amounts of chemicals that are hazardous to health and the environment but in quantities too small to constitute any practical risks to health or the environment.







ARNING

Risk Phrases:

R22: Harmful if swallowed.

Safety Phrases:

S2: Keep out of the reach of children.

S37: Wear suitable gloves.

Hazard Phrases:

H313: May be harmful in contact with skin.

H351: Suspected of causing cancer.

H410: Very toxic to aqautic life with long lasting effects.

Precautionary Phrases:

P264: Wash hands thoroughly after handling.

P280: Use personal protective equipment as required.

P301+P310: If swallowed, call physician.

P302+ P352: If on skin, wash with plenty of water. P332+P313:If rash occurs, seek medical attention.

P305+P351+P338: If in eyes remove contact lenses is present and rinse continuousl

P501: Dispose of contents to an approved waste disposal plant.

# **SECTION 3: INGREDIENT INFORMATION**

Chemical Identification: Crystalline solid

<u>rm/Shape</u>: Para super block comes in various shapes and sizes.

<u>CAS Number</u>: Not applicable since the product is a preparation.

<u>EINECS/ELINCS #:</u> Not applicable since the product is a preparation.

The product is a complex mixture of substances of which the following have been classified as presenting health or environmental hazard or as having an occupational exposure limit within the meaning of ...e Directive 67/548/EEC or 1999/45/EC

	EC Nr		Substance	Hazard Classification		
Level (%) CAS Nr			(Dir. 67/548/CE)	(Reg. CE 1272/2008)		
99%	106-46-7	203-400-5	p-Dichlorobenzene	R22	Н313	
					H351	
			#		H410	

# **SECTION 4: FIRST AID MEASURES**

General: No specific acute effects or symptoms are known.

Inhalation: No acute effects expected. If person is feeling unwell, remove to fresh air.

<u>Ingestion:</u> Possibility of ingestion limited due to product form and difficulty to chew and ingest. In the event of ingestion, rinse mouth thoroughly with water.

Skin: Wash off with soap and water.

Eyes: Possibility of eye contact limited. In the event, wash thoroughly with water or approved eyewash.

# **SECTION 5: FIRE FIGHTING MEASURES**

<u>Extinguishing Media:</u> Use extinguishing media appropriate for the surrounding fire. Water spray, fog or mist. Dry chemicals, sand etc.

<u>Exposure Hazards</u>: Thermal decomposition or burning may release a variety of products ranging from simple drocarbons to toxic/irritating gases including carbon monoxide and carbon dioxide. Full protective clothing should be worn before a confined fire space is entered. Self-contained breathing apparatus should be worn.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

No special requirements for accidental release required. Apply good housekeeping practices.

# **SECTION 7: HANDLING AND STORAGE**

<u>Usage Precautions</u>: Follow normal good-housekeeping practices. Keep away from direct flames. <u>Storage Precautions</u>: Keep in cool, dry conditions in original containers at no more than 30° C

# **SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION**

Occupational Exposure limit: Not Established

Respiratory Protection: None required under normal usage

Protection: Although unexpected, avoid prolonged skin contact. Use chemically resistant gloves as needed.

Eye Protection: None required

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Crystalline Solid in various shapes and sizes

Odor: Cherry

Odor Threshold: Not determined

Color: Various Color

\\value: Not determined/applicable

<u>melting Pt</u>: Estimated 60° C <u>Boiling Pt</u>: Not applicable. Flash pt: Not applicable.

"'aporation Rate: Not applicable.

...ammability: Not determined/applicable

<u>UEL:</u> Not determined

LEL: Not determined

<u>Vapor Pressure:</u> Not determined/applicable

Vapor Density: Not determined/applicable

Relative Density: Not determined

Solubility in water: Insoluble.

<u>Partition Coefficient:</u> Not determined <u>Autiignition Temperature:</u> Not applicable

<u>Decomposition Temperature:</u> Not determined/applicable

# **SECTION 10: STABILITY AND REACTIVITY**

Stability: Normally stable.

Conditions to avoid: Avoid extreme heat and naked flames.

Materials to avoid: Strong oxidizing agents.

Decomposition Products: None under normal storage conditions.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

<u>Acute Effects:</u> Ingredients include a small quantity of volatile chemicals which may contain small amounts of substances that are harmful if swallowed and/or irritating to the eyes and skin.

Chronic Effects: None are known.

\_alth Risks:

INHALATION: Prolonged exposure to volatile ingredients is unlikely to cause irritation or other adverse health effects.

INGESTION: No practical risk of adverse health effects.

SKIN CONTACT: No practical risk of adverse health effects.

EYE CONTACT: No practical risk of adverse health effects.

# **SECTION 12: ECOLOGICAL INFORMATION**

No specific information has been established regarding the product. However according to the conventional method of Directive 99/45/EC the product is classified as harmful to aquatic organisms, or causing long-term effects in the aquatic environment.

Ecotoxicity: N/A

Persistence and Degradability: N/A

Bioaccumulative Potential: N/A

Mobility in Soil: N/A

Other Adverse Effects: N/A

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with Local Authority requirements e.g., for used product, as household waste

# **SECTION 14: TRANSPORT INFORMATION**

Product is not regulated as hazardous

T Classifications: Non Hazardous

UN-Number: N/A

UN Proper Shipping Name: N/A

Transport Hazard Class: N/A

cking group: N/A
...arine Pollutant: N/A

Special Precautions with Transport: N/A

# **SECTION 15: REGULATORY INFORMATION**

Classification, Packaging and Labeling according to Directive 99/45/EC

<u>Signal word</u>: WARNING <u>Pictograms</u>:

> Environment Exclamation mark

Health hazard

Risk Phrases:

R22: Harmful if swallowed.

Safety Phrases:

S2: Keep out of the reach of children.

S37: Wear suitable gloves.

**Hazard Phrases:** 

H313: May be harmful in contact with skin.

H351: Suspected of causing cancer.

H410: Very toxic to aqautic life with long lasting effects.

# **\_CTION 16: OTHER INFORMATION**

This product safety data sheet has been prepared according to the Chemicals (Hazard Information and Packaging for Supply) Regulations 2009.

The information given is based on data currently available and is believed to be correct. No warranty is expressed or implied regarding the accuracy of these data or from the results of the use thereof. No responsibility is assumed for injury from the use of the product described herein.

y with water for several minutes.

# WD-40 Multi-Purpose Product

Product name:

WD-40® Multi-Use Product - Aerosol

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2020-01-22

Product No.:

SDS-ID:

IL-EN/1.0

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

# 1.1. Product identifier

Product name:

WD-40® Multi-Use Product - Aerosol

Container size:

100 ml, 125 ml, 150ml, 200 ml, 240 ml, 250 ml, 300 ml, 400 ml, 420 ml

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Application:

Universal lubricant.

# 1.3. Details of the supplier of the safety data sheet

Manufacturer:

WD-40

Brick Close | Kiln Farm MK11 3LJ Milton Keynes

United Kingdom

Supplier/Distributor:

Hashahal, Inc.

HaRav Shalom Jarufi St 4

Rishon LeTsiyon Tel:03-7612700

# 1.4. Emergency telephone number

Emergency telephone:

Israel Poison Information Center: 04-7771900 (24/7)

Product name:

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# **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1. Classification of the substance or mixture

The product is classified:

SI 2302 (1):

Flam. Aerosol 1 - STOT SE 3;H336 - Asp. Tox. 1

#### 2.2. Label elements



Danger

Contains:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H336

May cause drowsiness or dizziness.

P102

Keep out of reach of children.

P271

Use only outdoors or in a well-ventilated area.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking,

P251

Do not pierce or burn, even after use.

P410 + P412

Protect from sunlight. Do not expose to temperatures exceeding 50°C.

P211

Do not spray on an open flame or other ignition source.

P301 + P310

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331

Do NOT induce vomiting.

Repeated exposure may cause skin dryness or cracking.

# 2.3. Other hazards

PBT/vPvB:

This product does not contain any PBT or vPvB substances.

Other:

Aerosol containers can burst violently when heated, due to excess pressure build-up. The product contains volatile, organic compounds which have a photochemical ozone creation potential. The product contains organic solvents. Organic solvents may be absorbed into the body by inhalation and cause

permanent damage to the nervous system, including the brain.

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# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

The product contains: organic solvents, propellants and mineral oil.

SI 2302 (1):

%:

CAS-No .:

EC No.:

Chemical name:

Hazard classification:

Notes:

60-80

919-857-5

Hydrocarbons, C9-C11, n-alkanes,

Flam. Liq. 3;H226

isoalkanes, cyclics, < 2% aromatics STOT SE 3;H336

Asp. Tox. 1;H304

Reference:

The full text for all hazard statements is displayed in section 16.

#### SECTION 4: FIRST AID MEASURES

# 4.1. Description of first aid measures

Burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

Inhalation:

Move injured person into fresh air and keep person calm under observation. If

uncomfortable: Seek hospital and bring along these instructions.

Skin contact:

Remove contaminated clothes and rinse skin thoroughly with water. In case of

eczema or other skin disorders: Seek medical attention and bring these

instructions.

Eye contact:

Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical

attention and bring along these instructions.

Ingestion:

Aspiration hazard. Immediately rinse mouth and drink plenty of water or milk.

Keep person under observation. Do not induce vomiting. If vomiting occurs, keep

head low. Immediate transport to hospital. Bring along these instructions.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects:

Be aware that symptoms of lung oedema (shortness of breath) may develop up

to 24 hours after exposure.

# 4.3. Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically. If there is any suspicion of aspiration into the lungs either

directly or as a result of vomiting, obtain medical advice.

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# **SECTION 5: FIREFIGHTING MEASURES**

# 5.1. Extinguishing media

Extinguishing media:

Extinguish with carbon dioxide or dry powder. Cool containers exposed to heat

with water spray and remove container, if no risk is involved.

Do not use water jet as an extinguisher, as this will spread the fire.

# 5.2. Special hazards arising from the substance or mixture

Specific hazards:

Aerosol containers can explode when heated, due to excessive pressure build-

up. During fire, gases hazardous to health may be formed.

# 5.3. Advice for firefighters

Protective equipment for fire-

Selection of respiratory protection for fire fighting: follow the general fire

fighters:

precautions indicated in the workplace.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

# 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions:

Follow precautions for safe handling described in this safety data sheet. Avoid

inhalation of vapours and contact with skin and eyes. Do not smoke or use open

fire, or other sources of ignition.

#### 6.2. Environmental precautions

<u>Environmental</u>

Avoid discharge into drains, water courses or onto the ground.

precautions:

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up:

Absorb spillage with non-combustible, absorbing material. Clean contaminated

area with oil-removing material.

#### 6.4. Reference to other sections

Reference:

For personal protection, see section 8. For waste disposal, see section 13.

# SECTION 7: HANDLING AND STORAGE

# 7.1. Precautions for safe handling

Safe handling advice:

Observe good chemical hygiene practices.

Work practice should minimise contact. Avoid inhalation of vapours and spray

mists. Avoid contact with skin and eyes.

Technical measures:

Do not smoke or use open fire or other sources of ignition.

Technical precautions:

Provide adequate ventilation. Provide easy access to water supply or an

emergency shower.

# 7.2. Conditions for safe storage, including any incompatibilities

<u>Technical measures for safe</u> Follow the rules for storage of flammable products.

storage:

Storage conditions:

Store in a cool and well-ventilated place. Do not store near heat sources or

expose to high temperatures.

Specific use(s):

No information available.

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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1. Control parameters

Occupational exposure limits:

CAS-No .:

Chemical name:

As:

Exposure limits:

Type:

Notes:

References:

124-38-9

Carbon dioxide

5000 ppm

TWA

**ACGIH** 

3000 ppm

STEL

15min

0

8.2. Exposure controls

Engineering measures:

Provide adequate ventilation. Observe Occupational Exposure Limits and

minimise the risk of inhalation of vapours.

Personal protection:

Personal protection equipment should be chosen according to the ANSI

standards and in discussion with the supplier of the personal protective

equipment.

Respiratory equipment:

In case of inadequate ventilation and work of brief duration, use suitable

respiratory equipment.

Hand protection:

Risk of contact: Wear protective gloves. It is recommended to use gloves of

Viton or nitrile rubber. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Other types of gloves can be recommended by

the glove supplier.

Eye protection:

Risk of splashes: Wear goggles/face shield.

Hygiene measures:

Wash hands after handling. Do not eat, drink or smoke when using the product. Change contaminated clothing. Wash contaminated clothing before

reuse.

Environmental Exposure

Controls:

Not available.

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# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on basic physical and chemical properties

Appearance:

Aerosol.

Colour:

Light brown.

Odour:

Characteristic.

<u>pH:</u>

Not available.

Melting point / freezing point:

< - 66°C (ASTM D 97)

Boiling point:

176°C (liquid phase)

Flash point:

47°C (liquid phase)

**Explosion limits:** 

0.6-8.2% vol. (Main components)

Vapour pressure:

7.2 bar (20°C)

9.4 bar (50°C)

Vapour density:

Not available.

Relative density:

0.817 g/ml

Solubility:

Insoluble in water.

Partition coefficient

Not available.

(n-octanol/water):

Decomposition

Not available.

temperature (°C):

Viscosity:

Kinematic viscosity: 2-3 mm<sup>2</sup>/s (40 °C)

9.2. Other information

Other data:

Not available.

# **SECTION 10: STABILITY AND REACTIVITY**

# 10.1. Reactivity

Reactivity:

Not reactive.

10.2. Chemical stability

Stability:

Stable under normal temperature conditions.

# 10.3. Possibility of hazardous reactions

Hazardous reactions:

None known.

10.4. Conditions to avoid

Conditions to avoid:

Avoid heat, flames and other sources of ignition. Avoid exposure to high

temperatures or direct sunlight.

10.5. Incompatible materials

Incompatible materials:

Strong oxides.

10.6. Hazardous decomposition products

Hazardous decomposition

None in particular.

products:

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# SECTION 11: TOXICOLOGICAL INFORMATION

# 11.1. Information on toxicological effects

Low order of acute toxicity, but aspiration following ingestion and vomiting may cause severe and potentially fatal chemical pneumonitis.

Acute Toxicity (Oral):

Based on available data, the classification criteria are not met.

Acute Toxicity (Dermal):

Based on available data, the classification criteria are not met.

Acute Toxicity (Inhalation):

Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin

Based on available data, the classification criteria are not met.

sensitisation:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive Toxicity:

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

STOT - Single exposure:

May cause drowsiness or dizziness.

STOT - Repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

May be fatal if swallowed and enters airways.

Inhalation:

In high concentrations, vapours and spray mists are narcotic and may cause

headache, fatigue, dizziness and nausea.

Skin contact:

Prolonged contact may cause redness, irritation and dry skin.

Eye contact:

May irritate and cause redness and pain.

Ingestion:

Low order of acute toxicity, but aspiration following ingestion and vomiting may

cause severe and potentially fatal chemical pneumonitis.

# SECTION 12: ECOLOGICAL INFORMATION

## 12.1. Toxicity

**Ecotoxicity:** 

Not classified as dangerous to the environment. Oil spills are generally

hazardous to the environment.

#### 12.2. Persistence and degradability

Degradability:

The degradability of the product has not been stated.

# 12.3. Bioaccumulative potential

Bioaccumulative potential:

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:

No data available.

## 12.5. Results of PBT and vPvB assessment

PBT/vPvB:

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Other adverse effects:

An oil film may cause physical damage to organisms and disturb the

transportation of oxygen in the intermediate zone between air/water or water/air.

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## SECTION 13: DISPOSAL CONSIDERATIONS

# 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Do not puncture or incinerate even when empty.

Contaminated packaging:

Empty aerosol containers before disposal.

# **SECTION 14: TRANSPORT INFORMATION**

The product is covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

# 14.1. UN number

UN-No:

1950

# 14.2. UN proper shipping name

Proper Shipping Name:

AEROSOLS, flammable

# 14.3. Transport hazard class(es)

Class:

2

# 14.4. Packing group

PG:

# 14.5. Environmental hazards

Marine pollutant:

No.

**Environmentally Hazardous** 

No.

Substance:

# 14.6. Special precautions for user

Special precautions:

None known.

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk:

This product is not intended for transport in bulk.

#### SECTION 15: REGULATORY INFORMATION

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulation:

SI 2302 part 1 - Dangerous substances and mixtures: Classification, labelling,

marking and packaging, with amendments.

Work Safety Regulations (Safety Data Sheets, Classification, Packing, Labeling

and Marking of Packages), 5758-1998, with amendments.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and

amending Regulation (EC) No 1907/2006 with amendments.

Threshold Limit Values (2018), ACGIH, by the American Conference on

Governmental Industrial Hygienists.

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# **SECTION 16: OTHER INFORMATION**

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

Abbreviations and acronyms Flam. Liq. = Flammable liquid.

used in the safety data sheet: Asp. Tox. = Aspiration toxicity.

PBT = Persistent, Bioaccumulative and Toxic.

STOT SE = Specific target organ toxicity, single exposure.

vPvB = very Persistent and very Bioaccumulative.

Additional information:

Classification according to Regulation (EC) No. 1272/2008:

Health Hazards: Calculation method. Physical Hazards: Expert judgement.

Wording of H-statements:

H222

Extremely flammable aerosol.

H226

Flammable liquid and vapour.

H229

Pressurised container: May burst if heated.

H304

May be fatal if swallowed and enters airways.

H336

May cause drowsiness or dizziness.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

> Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark. www.dhigroup.com.

# Windo-Clean+

# The Cleaning Resources

# SAFETY DATA SHEET

# 1. Identification

**Product identifier** 

WINDO-CLEAN+

Other means of identification

SDS number Product code 578N-66A

HIL00802

Recommended use

Window Cleaner

Recommended restrictions

For Labeled Use Only

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

HILLYARD INDUSTRIES

Address

302 North Fourth St.

St. Joseph, MO 64501

Contact person

Regulatory Affairs

Telephone number

(816) 233-1321 (Ext. 8285)

Fax

(816) 383-8485

E-mail Emergency telephone # regulatoryaffairs@hillyard.com

(800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident

\* HIL0080225

involving chemicals)

# 2. Hazard(s) identification

Physical hazards

Flammable liquids

Category 3

Health hazards

Acute toxicity, dermal

Category 4

Acute toxicity, inhalation

Category 4

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2A

Sensitization, skin

Classification not possible

**Environmental hazards** 

Hazardous to the aquatic environment, acute hazard

Category 3

**OSHA** defined hazards

Not classified.

Label elements



Signal word

Warning

Hazard statement

Flammable liquid and vapor. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. Harmful to aquatic life.

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye

protection/face protection. Avoid release to the environment.

Response If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire:

Use appropriate media to extinguish.

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry container for recycling or reconditioning.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvent with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Butoxyethanol	<del></del>	111-76-2	10 - < 20
Isopropanol		67-63-0	5 - < 10
Methoxyisopropanol		107-98-2	5 - < 10
Ammonium Laureth Sulfate	-	67762-19-0	1 - < 3
Other components below reportab	le levels		60 - < 70

## 4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

media

Rinse mouth. Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

Flammable liquid and vapor.

Material name: WINDO-CLEAN+

HIL00802 Version #: 04 Revision date: 11-05-2020 Issue date: 01-29-2015

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get in eyes, on skin, or on clothing. Avoid inhalation of vapors and spray mists. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

50 ppm

# 8. Exposure controls/personal protection

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

# Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре	Value
Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m3
		50 ppm
Isopropanol (CAS 67-63-0)	PEL	980 mg/m3
		400 ppm
US. ACGIH Threshold Limit Values		
Components	Туре	Value
Butoxyethanol (CAS 111-76-2)	TWA	20 ppm
Isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

TWA

US.	NIOSH:	<b>Pocket</b>	Guide	to	Chemical	Hazards

Components	Туре	Value
Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m3
		5 ppm
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3
		500 ppm
x 5	TWA	980 mg/m3
		400 ppm
Methoxyisopropanol (CAS 107-98-2)	STEL	540 mg/m3
		150 ppm
	· TWA	360 mg/m3
		100 ppm

#### **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components	Value	Determinant	Specimen	Sampling Time
Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
Isopropanol (CAS 67-63-0	) 40 mg/l	Acetone	Urine	:₩

<sup>\* -</sup> For sampling details, please see the source document.

# **Exposure guidelines**

US - California OELs: Skin designation

Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

Methoxyisopropanol (CAS 107-98-2)

Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Butoxyethanol (CAS 111-76-2) Skin designation applies.

US - Tennessee OELs: Skin designation

Butoxyethanol (CAS 111-76-2)

Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Butoxyethanol (CAS 111-76-2)

-76-2) Can be absorbed through the skin.

Good general ventilation should be used. Ventilation rates should be matched to conditions. If

maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Skin protection

Appropriate engineering

controls

**Hand protection** For prolonged or repeated skin contact use suitable protective gloves.

Other None normally required. If unable to avoid prolonged or repeated contact with skin, wear

impervious clothing.

Respiratory protection Not normally required with adequate ventilation. If engineering controls do not maintain airborne

concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be

applicable, use process enclosures, local exhaust ventilation, or other engineering controls to

worn.

Thermal hazards None known.

General hygiene considerations

Material name: WINDO-CLEAN+

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

Appearance Clear, dark purple liquid

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Physical state

Liquid. Liquid.

Form Color

Dark purple

Odor

Solvent odor Not available

Odor threshold Hq

Flash point

6-8

Melting point/freezing point

Not available

Initial boiling point and boiling

184 °F (84.44 °C) corr.

range

111.0 °F (43.9 °C) Tag Closed Cup

**Evaporation rate** 

< 1 Ethyl ether = 1

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

17.45 mm Hg

Vapor density

1.463 Air=1

Relative density

0.98 at 77°F

Solubility(ies)

Solubility (water)

100 % Complete

Partition coefficient

Not available

(n-octanol/water)

Auto-ignition temperature

Not available

**Decomposition temperature** 

Not available

Viscosity

Not available

Other information

Density

8.15 lb/gal

**Explosive properties** 

Not explosive.

Oxidizing properties

Not oxidizing.

Percent volatile

> 97 %

VOC

30.6 %

# 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials

Strong acids. Strong oxidizing agents. Chlorine. Isocyanates.

Hazardous decomposition

No hazardous decomposition products are known.

products

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation

Harmful if inhaled.

Skin contact

Harmful in contact with skin. Causes skin irritation.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

Eye contact

Causes serious eye irritation.

Ingestion

Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

Harmful if inhaled, Harmful in contact with skin.

Components

Species

**Test Results** 

Butoxyethanol (CAS 111-76-2)

Acute Oral

LD50

Rat

560 mg/kg

Isopropanol (CAS 67-63-0)

**Acute** 

Dermal

LD50

Rabbit

12800 mg/kg

Oral

**LD50** 

Rat

4.7 g/kg

Methoxyisopropanol (CAS 107-98-2)

Acute

Dermal

LD50

Rabbit

13 g/kg

Inhalation

LC50

Rat

54.6 mg/l, 4 Hours

Oral

LD50

Rat

5.71 g/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Butoxyethanol (CAS 111-76-2)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure Aspiration hazard

Not an aspiration hazard.

Chronic effects

Prolonged inhalation may be harmful. May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and

prolonged. These effects have not been observed in humans.

12. Ecological information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the

Material name: WINDO-CLEAN+

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results
WINDO-CLEAN+		×	
Aquatic			
Crustacea	EC50	Daphnia	1147.123 mg/l, 48 hours estimated
Fish	LC50	Fish	1718.8455 mg/l, 96 hours estimated
Components		Species	Test Results
Butoxyethanol (CAS 111-76	-2)		
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
Isopropanol (CAS 67-63-0)			
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis	) > 1400 mg/l, 96 hours
sistence and degradability	No data is	s available on the degradability of this product.	
		3	

Pe

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Butoxyethanol 0.83 Isopropanol 0.05

Mobility in soil

No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

# 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the

material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Buyer assumes all risk and liability associated with disposal of this product (original

concentration or dilution) in violation of applicable law.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Waste from normal product use may be sewered to a public owned treatment works (POTW) in compliance with applicable Federal, State, and local pretreatment

requirements.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

# 14. Transport information

#### DOT

Not regulated as dangerous goods.

IATA

**UN number** UN1993

UN proper shipping name Flammable liquid, n.o.s. (Isopropyl Alcohol)

Transport hazard class(es)

Class 3 Subsidiary risk 3 Label(s) Packing group III **Environmental hazards** No. **ERG Code** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions. **IMDG** 

**UN number** 

UN1993

UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (Isopropyl Alcohol)

Transport hazard class(es)

Class

3

Subsidiary risk Label(s)

3

Packing group

III

**Environmental hazards** 

Marine pollutant

No.

**EmS** 

F-E, S-E

Transport in bulk according to

Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Not established.

Annex II of MARPOL 73/78 and

the IBC Code

IATA; IMDG



# 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)** 

One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure) categories

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

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SDS US

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Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

# FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Isopropanol (CAS 67-63-0)

Low priority

#### US state regulations

# California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Butoxyethanol (CAS 111-76-2) Isopropanol (CAS 67-63-0) Methoxyisopropanol (CAS 107-98-2)

#### International Inventories

Country(s) or region

Inventory name

On inventory (yes/no)\*

Canada

Domestic Substances List (DSL)

Yes

Canada

Non-Domestic Substances List (NDSL)

No

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date

01-29-2015

Revision date

11-05-2020

Version #

04

HMIS® ratings

Health: 2

Flammability: 3 Physical hazard: 0

Disclaimer

No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.

Material name: WINDO-CLEAN+

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# Zenkill IV

# SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID:

495785

Product Name :

ZenKill IV

**Revision Date:** 

Nov 16, 2016

Supersedes Date: Jun 02, 2016

Version:

1.0

Manufacturer's Name:

Zenex International

Address:

1 Zenex Circle Cleveland, OH, US, 44146

**Emergency Phone:** 

1-800-535-5053

Information Phone:

(440)-232-4155

Fax:

Product/Recommended Uses: Multi-Purpose Insect Spray

# **SECTION 2) HAZARDS IDENTIFICATION**

# Classification:

Specific Target Organ Toxicity -Single Exposure (Narcotic Effects) - Category 3

Aspiration Hazard - Category 1

Skin Irritation - Category 2

Skin Sensitizer - Category 1

Aerosol - Category 1

# Pictograms:







# Signal Word:

Danger

# Hazardous Statements - Physical:

H222, H229 - Extremely flammable aerosol, Pressurized container may burst if heated

#### **Hazardous Statements - Health:**

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H336 - May cause drowsiness or dizziness

# Precautionary Statements - General:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

# **Precautionary Statements - Prevention:**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P264 Wash thoroughly after handling.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P271 Use only outdoors or in a well-ventilated area.

# Precautionary Statements - Response:

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331 Do NOT induce vomiting.
- P370 + P378 In case of fire: Use water fog, dry chemical or carbon dioxide to extinguish.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P362 + P364 Take off contaminated clothing. And wash it before reuse.
- P333 + P313 If skin irritation or a rash occurs; Get medical advice/attention.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.

# Precautionary Statements - Storage:

- P405 Store locked up.
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P410 Protect from sunlight.
- P412 Do not expose to temperatures exceeding 50°C/122°F.

# Precautionary Statements - Disposal:

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

ECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS					
CAS	Chemical Name	% by Weight			
0064742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE	8% - 20%			
0000106-97-8	BUTANE	5% - 14%			
0000074-98-6	PROPANE	3% - 6%			
0008042-47-5	MINERAL OIL, SLAB OIL	1% - 3%			
0052645-53-1	PERMETHRIN	0.3% - 0.7%			

# SECTION 4) FIRST-AID MEASURES

#### Inhalation:

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.

Eliminate all ignition sources if safe to do so.

# Eye Contact:

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

#### Skin Contact:

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Call a POISON CENTER/doctor if you feel unwell. Store contaminated clothing under water and wash before reuse or discard.

#### Inaestion:

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

# **SECTION 5) FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media:

Use water, fog, dry chemical, or carbon dioxide.

Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

#### Unsuitable Extinguishing Media:

Water may be ineffective but can be used to cool containers exposed to heat or flame.

# Specific Hazards in Case of Fire:

Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force.

Aerosol cans may rupture when heated.

Heated cans may burst.

In fire, will decompose to carbon dioxide, carbon monoxide

#### Fire-Fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

#### Special Protective Actions:

Wear protective pressure self-contained breathing apparatus (SCBA)and full turnout gear.

Care should always be exercised in dust/mist areas.

# **SECTION 6) ACCIDENTAL RELEASE MEASURES**

# **Emergency Procedure:**

Flammable/combustible material.

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stay upwind; keep out of low areas. Immediately turn off or isolate any source of ignition. Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Clean up immediately. Use absorbent sweeping compound to soak up material and put into suitable container for proper disposal.

#### **Recommended Equipment:**

Wear safety glasses and gloves.

#### Personal Precautions:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use explosion proof equipment. Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

#### **Environmental Precautions:**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

# **SECTION 7) HANDLING AND STORAGE**

#### General:

For industrial and institutional use only.

For use by trained personnel only.

Keep away from children.

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

## Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

# Storage Room Requirements:

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

Store at temperatures below 120°F.

# SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

#### **Eye Protection:**

Chemical goggles, safety glasses with side shields or vented/splash proof goggles. Contact lenses may absorb irritants. Particles may adhere to lenses and cause corneal damage.

#### Skin Protection:

Wear gloves, long sleeved shirt, long pants and other protective clothing as required to minimize skin contact.

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Chemical-resistant clothing is recommended to avoid prolonged contact. Avoid unnecessary skin contact.

# **Respiratory Protection:**

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors.

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA- Tables- Z1,2,3	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
BUTANE								800	1900			
ISOPARAFFINIC PETROLEUM DISTILLATE	500	2000			1							
PROPANE	1000	1800			1			1000	1800			

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)
BUTANE	1000			
ISOPARAFFINIC PETROLEUM DISTILLATE				
PROPANE	See Appendix F: Minimal Oxygen Content			

# **SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**

# **Physical and Chemical Properties**

Density

7.23621 lb/gal

Density VOC

1.04925 lb/gal

% VOC

14.50000%

VOC Actual	1.04925 lb/gal	
VOC Actual	125.73165 g/l	
VOC Regulatory	1.04925 lb/gal	
VOC Regulatory	125.73165 g/l	
Appearance	N.A	
Odor Threshold	N.A.	
Odor Description	N.A.	
рН	N.A.	
Water Solubility	N.A.	
Flammability	Flashpoint below 73 °F	
Flash Point Symbol	N.A.	
Flash Point	N.A.	
Viscosity	N.A.	
Lower Explosion Level	1.3	
Upper Explosion Level	9.5	
Melting Point	N.A.	
Vapor Density	Slower than ether	
Freezing Point	N.A.	
Low Boiling Point	N.A.	
High Boiling Point	N.A.	
Decomposition Pt	0	
Auto Ignition Temp	N.A.	
Evaporation Rate	Slower than ether	

# **SECTION 10) STABILITY AND REACTIVITY**

# Stability:

Stable.

# Conditions to Avoid:

High temperatures.

# Incompatible Materials:

None known.

# Hazardous Reactions/Polymerization:

Will not occur.

# **Hazardous Decomposition Products:**

In fire, will decompose to carbon dioxide, carbon monoxide.

# **SECTION 11) TOXICOLOGICAL INFORMATION**

# Skin Corrosion/Irritation:

Overexposure will cause defatting of skin.

# Serious Eye Damage/Irritation:

Overexposure will cause redness and burning sensation.

# Carcinogenicity:

No data available

# **Germ Cell Mutagenicity:**

No data available

# Reproductive Toxicity:

No data available

# Respiratory/Skin Sensitization:

May cause an allergic skin reaction

# Specific Target Organ Toxicity - Single Exposure:

May cause drowsiness or dizziness

# Specific Target Organ Toxicity - Repeated Exposure:

No data available

#### **Aspiration Hazard:**

May be fatal if swallowed and enters airways

#### **Acute Toxicity:**

Inhalation: effect of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.

0000106-97-8

BUTANE

LC50 (mouse): 202000 ppm (481000 mg/m3) (4-hour exposure); cited as 680 mg/L (2-hour exposure) (9) LC50 (rat): 276000 ppm (658000 mg/m3) (4-hour exposure); cited as 658 mg/L (4- hour exposure) (9)

# **SECTION 12) ECOLOGICAL INFORMATION**

#### Toxicity:

No data available.

# Persistence and Degradability:

No data available.

#### **Bio-Accumulative Potential:**

No data available.

#### Mobility in Soil:

No data available.

#### Other Adverse Effects:

No data available.

#### **Bio-accumulative Potential**

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

Contains constituents with the potential to bio accumulate.

# Mobility in Soil

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

Floats on water. Contains volatile constituents. Evaporates within a day from water or soil surfaces. Large volumes may penetrate soil and could contaminate groundwater.

#### Persistence and Degradability

0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE

Expected to be inherently biodegradable. The volatile constituents will oxidize rapidly by photochemical reactions in air.

# **SECTION 13) DISPOSAL CONSIDERATIONS**

# Water Disposal:

Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

# **SECTION 14) TRANSPORT INFORMATION**

# U.S. DOT Information:

Consumer Commodity, ORM-D

#### **IMDG Information:**

Consumer Commodity, ORM-D

# **SECTION 15) REGULATORY INFORMATION**

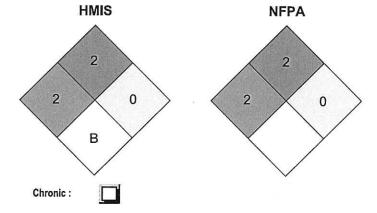
CAS	Chemical Name	% By Weight	Regulation List
0000074-98-6	PROPANE	3% - 6%	SARA312,VOC,TSCA,ACGIH,OSHA
0000106-97-8	BUTANE	5% - 14%	SARA312,VOC,TSCA,ACGIH
0008042-47-5	MINERAL OIL, SLAB OIL	1% - 3%	SARA312,TSCA
0052645-53-1	PERMETHRIN	0.3% - 0.7%	SARA312,SARA313,VOC
0064742-47-8	ISOPARAFFINIC PETROLEUM DISTILLATE		SARA312,VOC,TSCA,OSHA

# **SECTION 16) OTHER INFORMATION**

#### Glossary:

\* There are points of differences between OSHA GHS and UN GHS. In 90% of the categories, they can be used interchangeably, but for the Skin Corrosion/Irritant Category and the Specific Target Organ Toxicity (Single and Repeated Exposure) Categories. In these cases, our system will say UN GHS.

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.



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