



SAFETY

DATA

SHEETS

7/16/2024

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Safety Data Sheet

182732

1 Material and Supplier Identification

Product Name: **Dish Sparkle**

Description: Liquid Dish Detergent

Recommended use of the chemical and restrictions: Use only for the purpose on product label. This product is not intended to be used without prior dilution if specified on product label.

Supplier's Information: **Maintex, Inc.**
13300 E. Nelson Ave
City of Industry, CA 91746
800-446-1888 (Customer Service)

Emergency Telephone: (800) 255-3924 USA (813)248-0585 International (Chemtel 24 hrs)

2 Hazards Identification

Classification of Mixture: Eye Irritation: Category 2B

Pictogram
No Pictogram

Signal Word: **WARNING**

Hazard Statements: Causes eye irritation

Precautionary Statements

General: KEEP OUT OF REACH OF CHILDREN. Read label before use.

Prevention: Wash hands thoroughly after handling.

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 attention.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical attention immediately.

3 Composition/Information on Ingredients

<u>Hazardous Ingredients</u>	<u>CAS Number</u>	<u>Concentration Range %</u>
Sodium Dodecylbenzenesulfonate	25155-30-0	10-20

4 First Aid Measures

Eye Contact:	Flush eyes with water for 15 minutes. Remove contact lenses if any.
Skin Contact:	Contact with concentrate may be an irritant to sensitive skin. If spilt in large areas of skin, rinse immediately with water and remove clothing. Wash skin thoroughly with soap and water.
Inhalation	If discomfort is experienced after prolonged exposure to vapors, move person to fresh air. Get medical attention if irritation persists.
Ingestion:	Get medical attention immediately. Rinse mouth with water. Do NOT induce vomiting. Drink glass of water to dilute product.

5 Firefighting Measures

Suitable Extinguishing Media:	Water spray, normal foam, dry agent (carbon dioxide, dry chemical powder.)
Specific Hazards arising from the Chemical:	In a fire or if heated, a pressure increase will occur and the container may burst. Combustion products may include and are not limited to nitrogen oxides, carbon monoxide, and carbon dioxide.
Specific Protective Equipment and Precautions for Firefighters:	Firefighters should wear NIOSH approved self-contained breathing apparatus and protective clothing. If safe to do so, remove containers from path of fire. If involved in a fire, keep containers cool with water spray.

6 Accidental Release Measures

Emergency Procedures:	Keep area clear of personnel until area has been properly cleaned.
Personal Precautions/ Protective Equipment:	Slippery when spilt. To avoid accidents, clean up immediately and shut off source of leak, if safe to do so. Wear appropriate protective equipment to prevent any contamination of skin, eyes, and personal clothing. Provide sufficient ventilation.
Environmental Precautions:	If contamination of sewers or waterways has occurred, advise local emergency services.
Methods for Containment and Cleaning Up:	Contain spill with absorbent (soil, sand, or other inert material) or spill kit to prevent contamination of sewers or waterways. Neutralization agent is not recommended within building, as toxic vapors may be omitted. Properly dispose of used absorbents in accordance with local, state, and federal regulations.

7 Handling and Storage

Precautions for Safe Handling:	Avoid eye contact, inhalation and ingestion. Wash hands thoroughly after use. Keep out of reach of children.
Conditions for Safe Storage, Including Incompatibilities:	Store in cool, dry place and out of direct sunlight. Store away from source of heat or ignition. Do not mix with other chemicals. Keep container closed when not in use, and check regularly for leaks.
	See Section 10 for incompatible materials.

8 Exposure Controls/Personal Protection

Control Parameters:

Hazardous Ingredients

Sodium Dodecylbenzenesulfonate

ACGIH TLV

N/A

OSHA PEL

N/A

NIOSH IDLH

N/A

Appropriate engineering controls:

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

Personal Protection

Eye Protection: Use protective glasses or safety goggles if splashing or spray-back is likely.

Hand Protection: Use protective gloves when used for prolonged periods or if skin sensitive.

Skin Protection: Use apron if splashing or spray-back is likely.

Respiratory Protection: Use in well ventilated areas or local exhaust ventilation when cleaning small spaces.

Hygiene Measures: Always wash hands after handling chemical products, and before smoking, eating, drinking, or using the toilet. Wash contaminated clothing or protective equipment before storage and re-use.

9 Physical and Chemical Properties

Physical State:	Liquid	Specific Gravity:	1.028	Vapour Pressure (mm Hg):	< 17 mm Hg
Color:	Green	Evaporation Rate:	< 1	Vapour Density:	> 1
Odor:	Floral	Solubility in Water:	Complete	Freezing Point (°F):	< 32
pH:	7.0-8.0	VOC (g/L):	<1	Boiling Point (°F):	> 212
				Flash Point (°F):	> 200

< means less than

> means greater than

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10 Stability and Reactivity

Reactivity: No specific data

Chemical Stability: Stable

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

Conditions to Avoid: Avoid exposure to heat and light.

Incompatible Materials: Slightly reactive or incompatible with oxidizers (e.g., bleach), strong acids (e.g., hydrochloric acid) and reactive metals (e.g., aluminum).

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxological Information

Symptoms:

Eye Contact:	Adverse symptoms may include the following: irritation, watering, redness
Skin Contact:	Adverse symptoms may include the following: irritation, redness
Inhalation:	Adverse symptoms may include the following: respiratory tract irritation, coughing
Ingestion:	Adverse symptoms may include the following: stomach pains

Acute Toxicity:

Eye Contact:	Causes eye irritation
Skin Contact:	May cause skin irritation.
Inhalation:	May cause respiratory irritation.
Ingestion:	May cause burns to mouth, throat and stomach.

Toxicity Data:

<u>Hazardous Ingredients</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>
Sodium Dodecylbenzenesulfonate	LD50 - Oral	Rat	438 mg/kg

Chronic Effects: No known significant effects or critical hazards

12 Ecological Information

Ecotoxicity: No data available.

Aquatic Toxicity:

<u>Hazardous Ingredients</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>
Sodium Dodecylbenzenesulfonate	No Data Available		

Other Adverse Effects: No known significant effects or critical hazards.

13 Disposal Considerations

Disposal Methods: Diluted product can be flushed to sanitary sewer. Discard empty container in trash. Dispose of waste in accordance with federal, state, and local regulations.

14 Transportation Information

Certain shipping modes or package sizes may have exceptions from the transport regulations.

The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Ground Transport

DOT Classification: Not Regulated

UN Number:

Transport Hazard Class:

Packaging Group:

Hazardous Division:

Hazardous Contents:

15 Regulatory Information

SARA Title III: No

California Proposition 65: No

Other Regulations:

16 Other Information

HMIS/NFPA Hazard Rating: Health: 1 Flammability: 0 Reactivity: 0

The information contained herein is based on the data available to us. It is believed to be correct. NO warranty, expressed or

implied, is made regarding the accuracy of this data or the results to be obtained from the use thereof. For further information consult Maintex, Inc. .

SDS Revision Date: 1/24/2018



COLGATE-PALMOLIVE Company
SAFETY DATA SHEET

NA

AJAX CLEANER POWDER-OXYGEN BLEACH

This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version 1.1

SDS Number: 660000000222

Revision Date: 05/14/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : AJAX CLEANER POWDER-OXYGEN BLEACH

Product code : 200000017621

: B01809190000

Manufacturer or supplier's details

Company : Colgate-Palmolive Co
Commerical Consumer Group
191 East Hanover Avenue
Morristown, NJ 07960-3151

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

Emergency telephone number : For emergencies involving spill, leak, fire, exposure or accident 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

Emergency Overview

Appearance	powder
Colour	off-white

GHS Classification

Acute toxicity (Inhalation) : Category 4

GHS Label element

Hazard pictograms



Signal word : Warning

Hazard statements : H332 Harmful if inhaled.



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Precautionary statements : **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271 Use only outdoors or in a well-ventilated area.
Response:
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

Potential Health Effects

Inhalation : May be harmful if inhaled.
Skin : May cause skin irritation upon prolonged contact.
Eyes : Causes eye irritation on direct contact.
Ingestion : May be harmful if swallowed in large quantities.
Aggravated Medical Condition : None known.

Carcinogenicity:

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.

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

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
LIMESTONE	1317-65-3	>= 90 - <= 100
SODIUM CARBONATE	497-19-8	>= 5 - < 10

SECTION 4. FIRST AID MEASURES

If inhaled : Remove victim to fresh air. Get medical attention, if symptoms persist.



NA

AJAX CLEANER POWDER-OXYGEN BLEACH

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Version 1.1 SDS Number: 660000000222 Revision Date: 05/14/2015

In case of skin contact : Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

In case of eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

If swallowed : Drink 8 ounces of clear water. Get medical attention.

Most important symptoms and effects, both acute and delayed : Harmful if inhaled.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazardous combustion products : No hazardous combustion products are known

Special protective equipment for firefighters : Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protection recommended in Section 8 of the SDS.

Methods and materials for containment and cleaning up : Cover with inert, absorbent material and remove to disposal container. Spill area may be slippery. Flush with plenty of water.

SECTION 7. HANDLING AND STORAGE

Conditions for safe storage : Store at controlled room temperature at 20-25°C (68-77°F).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
LIMESTONE	1317-65-3	TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (Respirable)	5 mg/m ³	NIOSH REL



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		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0

Engineering measures : In an industrial work environment, no special precautions or control measures are required.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Protective measures : In an industrial work environment, if a splash is likely, chemical goggles may be needed. Prolonged skin contact may require protective gloves. For consumer use, no unusual precautions are necessary.

Hygiene measures : In an industrial work environment, avoid eye and prolonged skin contact.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : off-white

pH : 10.4

Flash point : No data available

Density : 1.04 g/cm3

SECTION 10. STABILITY AND REACTIVITY



COLGATE-PALMOLIVE Company
SAFETY DATA SHEET

AJAX CLEANER POWDER-OXYGEN BLEACH

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Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if inhaled.

Product:

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 1.63 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Components:

LIMESTONE:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 420

Acute inhalation toxicity : LC50 (Rabbit): > 3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

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 : LC50 (Rabbit): 2.3 mg/l
Exposure time: 2 h
Test atmosphere: No information available.
Method: No information available.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: No information available.

Skin corrosion/irritation

Not classified based on available information.

Components:

LIMESTONE:



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Result: No skin irritation

SODIUM CARBONATE:

Remarks: No data available

Serious eye damage/eye irritation

Not classified based on available information.

Components:

LIMESTONE:

Result: No eye irritation

SODIUM CARBONATE:

Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

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

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.



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SDS Number: 660000000222

Revision Date: 05/14/2015

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 : Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environment agency for specific rules). Do not dump in sewers, any body of water or on the ground.

SECTION 14. TRANSPORT INFORMATION

DOT : Not regulated.

TDG : Not regulated.

IATA : Not regulated.

IMDG : Not regulated.

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



NA

AJAX CLEANER POWDER-OXYGEN BLEACH

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SDS Number: 660000000222

Revision Date: 05/14/2015

OSHA Hazards : Combustible dust, Moderate skin irritant, Severe eye irritant

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

CERCLA Reportable Quantity

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

*: 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	*

*: 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 requirements 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 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 SOCM 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:

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

Massachusetts Right To Know



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SDS Number: 660000000222

Revision Date: 05/14/2015

LIMESTONE	1317-65-3
SODIUM DODECYL BENZENE	25155-30-0
SULFONATE	
Sulfuric Acid	SULFURIC
	ACID
SULFUR DIOXIDE	7446-09-5

Pennsylvania Right To Know

LIMESTONE	1317-65-3
SODIUM CARBONATE	497-19-8
SODIUM DODECYL BENZENE	25155-30-0
SULFONATE	
Sulfuric Acid	SULFURIC
	ACID
SULFUR DIOXIDE	7446-09-5
SODIUM SULFATE	7757-82-6

New Jersey Right To Know

LIMESTONE	1317-65-3
SODIUM CARBONATE	497-19-8
SODIUM DODECYL BENZENE	25155-30-0
SULFONATE	

California Prop 65

: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

TSCA : All ingredients in this product are listed on the TSCA Inventory or are not required to be listed on the TSCA Inventory.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)



NA

AJAX CLEANER POWDER-OXYGEN BLEACH

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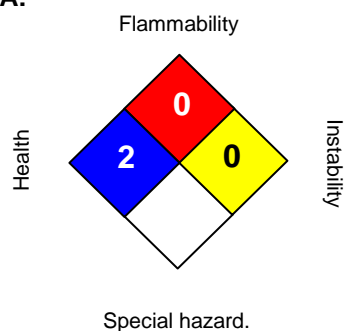
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SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Disclaimer: The information on this sheet is limited to the material identified and is believed by the Colgate-Palmolive Company to be correct based on its knowledge and information as of the date noted. Colgate makes no representation, guarantee or warranty, expressed or implied, as to the accuracy, reliability or completeness of the information and assumes no responsibility for injury, damage or loss resulting from the use of the material.

SAFETY DATA SHEET

10% Quat Rinse

Page: 1

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Printed: 03/27/2023

Revision: 03/27/2023

Supersedes Revision: 06/22/2020

1. Product and Company Identification

Product Code: 01107
Product Name: 10% Quat Rinse
Company Name: Genlabs
5568 Schaefer Ave.
Chino, CA 91710
Phone Number: 1 (909)591-8451
Web site address: www.genlabscorp.com
Email address: sol@genlabscorp.com
Emergency Contact: Chemtrec 1 (800)424-9300
Recommended Use: Cleaner/Disinfectant
Intended Use: For sale to, use and storage by service persons only.
Additional Information: 55 gal

2. Hazards Identification

Acute Toxicity: Oral, Category 4
Acute Toxicity: Skin, Category 4
Skin Corrosion/Irritation, Category 2
Aquatic Toxicity (Acute), Category 2



GHS Signal Word: **Warning**
GHS Hazard Phrases: H302 - Harmful if swallowed.
H312 - Harmful in contact with skin.
H315 - Causes skin irritation.
H401 - Toxic to aquatic life.
GHS Precaution Phrases: P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
GHS Response Phrases: P301+312 - If swallowed: Call a Poison Center or doctor if you feel unwell.
P302+352 - If on skin (or in hair): Wash with plenty of soap and water.
P312 - Call a POISON CENTER or doctor if you feel unwell.
P321 - Specific treatment see ... on this label.
P322 - Specific measures see ... on this label.
P330 - Rinse mouth.
P332+313 - If skin irritation occurs, get medical attention immediately.
P362 - Take off contaminated clothing and wash before re-use.
P363 - Wash contaminated clothing before reuse.
GHS Storage and Disposal Phrases: P501 - Dispose of contents and container according to the local, city, state and federal regulations.

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10% Quat Rinse

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Printed: 03/27/2023

Revision: 03/27/2023

Supersedes Revision: 06/22/2020

Inhalation:	Slight irritation, headache, dizziness, nausea.
Skin Contact:	Slight irritation and can cause corrosion to skin.
Eye Contact:	Corrosive to the eyes and may cause severe damage including blindness.
Ingestion:	May be harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
68391-01-5	Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	5.0 %	
85409-23-0	Quaternary ammonium compounds, C12-14-alkyl.(.ethylphenyl)m	5.0 %	
7732-18-5	Water	90.0 %	

4. First Aid Measures

Emergency and First Aid

Procedures:

In Case of Inhalation:	If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
In Case of Skin Contact:	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
In Case of Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention.
In Case of Ingestion:	If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Get medical aid immediately.

5. Fire Fighting Measures

Flash Pt:	> 212.00 F
Explosive Limits:	LEL: N/A N.E. UEL: N/A N.E.
Autoignition Pt:	NE
Suitable Extinguishing Media:	CO2, dry foam, water fog.
Fire Fighting Instructions:	Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire. Use water spray to keep fire-exposed containers cool.
Flammable Properties and Hazards:	No data available.
Hazardous Combustion Products:	No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled:	Clean up spills immediately, observing precautions in Protective Equipment section. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.
---	---

7. Handling and Storage

Precautions To Be Taken in Handling:	Wash hands thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid breathing dust, mist, or vapor.
Precautions To Be Taken in Storing:	Keep away from heat and flame. Keep container tightly closed in a dry and well-ventilated place.

10% Quat Rinse

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8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
68391-01-5	Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	No data.	No data.	No data.
85409-23-0	Quaternary ammonium compounds, C12-14-alkyl.(.ethylphenyl)m	No data.	No data.	No data.
7732-18-5	Water	No data.	No data.	No data.

Personal Protective Equipment Symbols:

Respiratory Equipment (Specify Type):

Always use a NIOSH approved respirator when necessary.

Eye Protection:

Safety glasses.

Protective Gloves:

Rubber gloves.

Other Protective Clothing:

Wear appropriate protective clothing to minimize contact with skin.

Engineering Controls (Ventilation etc.):

No special ventilation requirements. General room ventilation is adequate.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Clear colorless liquid with quat odor.
pH:	~ 6.00 - 8.00
Melting Point:	NE
Boiling Point:	>= 212.00 F
Flash Pt:	> 212.00 F
Evaporation Rate:	NE
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: N/A N.E. UEL: N/A N.E.
Vapor Pressure (vs. Air or mm Hg):	NE
Vapor Density (vs. Air = 1):	NE
Specific Gravity (Water = 1):	~ 0.990
Density:	~ 8.25 lbs/gal
Bulk density:	NE
Solubility in Water:	100%
Saturated Vapor Concentration:	NE

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Octanol/Water Partition Coefficient: No data.

VOC / Volume: 0.0000 G/L

Autoignition Pt: NE

Decomposition Temperature: NE

Viscosity: NP

Particle Size: NE

Heat Value: NE

Corrosion Rate: NE

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Stable. However, may decompose if heated.

Instability:

Incompatibility - Materials To Avoid: Strong oxidizers, ammonia, bleach, strong acids and strong alkali materials.

Hazardous Decomposition or Byproducts: CO, CO2.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - None.

Hazardous Reactions:

11. Toxicological Information

Toxicological Information: No data available.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
68391-01-5	Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	n.a.	n.a.	n.a.	n.a.
85409-23-0	Quaternary ammonium compounds, C12-14-alkyl. (ethylphenyl)m	n.a.	n.a.	n.a.	n.a.
7732-18-5	Water	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method: Dispose of contents and container according to the local, city, state and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: NOT REGULATED FOR DOMESTIC TRANSPORT.

DOT Hazard Class:

UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated.

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LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not Regulated.

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated.

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

15. Regulatory Information

This material meets the EPA ☒ Yes ☐ No Acute (immediate) Health Hazard
'Hazard Categories' defined ☐ Yes ☒ No Chronic (delayed) Health Hazard
for SARA Title III Sections ☐ Yes ☒ No Fire Hazard
311/312 as indicated: ☐ Yes ☒ No Sudden Release of Pressure Hazard
☐ Yes ☒ No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
68391-01-5	Quaternary ammonium compounds,benzyl-C12-18-alkyldimethyl, chlorides	CA PROP.65: No; CA TAC, Title 8: No
85409-23-0	Quaternary ammonium compounds, C12-14-alkyl.-(ethylphenyl)m	CA PROP.65: No; CA TAC, Title 8: No
7732-18-5	Water	CA PROP.65: No; CA TAC, Title 8: No

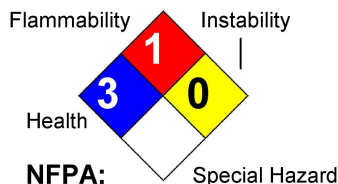
16. Other Information

Revision Date: 03/27/2023

Hazard Rating System:

HEALTH		3
FLAMMABILITY		1
PHYSICAL		0
PPE		C

HMIS:

**Additional Information About** PPE C: safety glasses, gloves, apron.**This Product:** EPA #1839-86.

Company Policy or Disclaimer: The manufacturer believes the data set forth are accurate and makes no warranty with respects thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion.



SAFETY DATA SHEET

SBS-21 Borax-Base Hand Soap

1. Identification

Product identifier

Product name SBS-21 Borax-Base Hand Soap

Product number 21150

Recommended use of the chemical and restrictions on use

Application Hand Soap

Details of the supplier of the safety data sheet

Supplier Deb USA, Inc.
2815 Coliseum Centre Drive, Suite 600
Charlotte, North Carolina 28217 USA
800-248-7190

Manufacturer Deb USA, Inc.
1100 South Highway 27
Stanley, North Carolina 28164 USA
704-263-4502 (Fax)
704-263-4240

Emergency telephone number

Emergency telephone Chemtrec 800 424 9300 (24 hour)

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Eye Irrit. 2B - H320 Repr. 1B - H360FD

Environmental hazards Not Classified

Label elements

Pictogram



Signal word Danger

Hazard statements H320 Causes eye irritation.
H360FD May damage fertility. May damage the unborn child.

SBS-21 Borax-Base Hand Soap

Precautionary statements	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P313 If exposed or concerned: Get medical advice/attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>
---------------------------------	--

Contains	SODIUM BORATE
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3. Composition/information on ingredients

Mixtures

SODIUM BORATE	60-100%
CAS number: 1303-96-4	
Classification	
Repr. 1B - H360FD	

The Full Text for all Hazard Statements are Displayed in Section 16.

Composition comments	Sodium Borate, Sodium Tallowate, Sodium Cocoate, Sodium Vegate.
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4. First-aid measures

Description of first aid measures

Inhalation	Not relevant. Unlikely route of exposure as the product does not contain volatile substances.
Ingestion	If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Skin Contact	Not applicable.
Eye contact	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

Most important symptoms and effects, both acute and delayed

Inhalation	No specific symptoms known.
Ingestion	Nausea, vomiting.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	May cause temporary eye irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctor	Call 1-866-923-4913 for assistance with the management of exposures.
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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
-------------------------------------	---

Special hazards arising from the substance or mixture

SBS-21 Borax-Base Hand Soap

Specific hazards	Not applicable.
Hazardous combustion products	No known hazardous decomposition products.
Advice for firefighters	
Protective actions during firefighting	No specific firefighting precautions known.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions See Section 8.

Environmental precautions

Environmental precautions Not considered to be a significant hazard due to the small quantities used.

Methods and material for containment and cleaning up

Methods for cleaning up Vacuum or sweep up material and place in a disposal container. Flush contaminated area with plenty of water. Take care as floors and other surfaces may become slippery. Avoid runoff into storm sewers and ditches which lead to waterways.

Reference to other sections For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Follow all SDS/label precautions even after container is emptied because they may retain product residues. Avoid ingestion and contact with eyes. Do not taste or swallow. Handle carefully to avoid damaging container.

Conditions for safe storage, including any incompatibilities

Storage precautions Keep only in the original container. Avoid temperatures above 120°F. Store at ambient temperatures in a dry area away from direct sunlight. Keep away from food, drink and animal feeding stuffs.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

SODIUM BORATE

Long-term exposure limit (8-hour TWA): ACGIH 2 mg/m³ inhalable fraction

Short-term exposure limit (15-minute): ACGIH 6 mg/m³ inhalable fraction

A4

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

Exposure controls

Appropriate engineering controls None required. General room ventilation is adequate.

Eye/face protection Not required normally but wear eye protection if you are conducting an operation where there is a risk of this product getting in the eyes.

SBS-21 Borax-Base Hand Soap

Hand protection	Not applicable.
Respiratory protection	No specific recommendations. Wear dust mask if handling creates air-borne dust.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Granules.
Color	White / off-white.
Odor	No characteristic odor.
Odor threshold	Not available.
pH	pH (concentrated solution): Not applicable. pH (diluted solution): 9.0 @ 2500 ppm solution.
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	None
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	None
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	approx. 1.00
Solubility(ies)	Moderate.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not applicable.
Volatile organic compound	This product contains a maximum VOC content of 0.00% . Calculation method used is based on California ARB standard.

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product. Avoid mixing directly with any other cleaning product. Avoid oxidizing agents including bleach.
Stability	Stable at normal ambient temperatures. Avoid temperatures above 120°F and high humidity to prevent caking.
Possibility of hazardous reactions	Not known. Will not polymerize.
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation. Avoid excessive heat (>120°F) for prolonged periods of time and high humidity to prevent caking.
Materials to avoid	Avoid mixing directly with any other cleaning product. Avoid oxidizing agents including bleach.

SBS-21 Borax-Base Hand Soap

Hazardous decomposition products Fire or mixing with incompatible materials may product carbon oxides and other toxic or irritating fumes.

11. Toxicological information

Information on toxicological effects

Toxicological effects No information available.

Reproductive toxicity

Reproductive toxicity - fertility May damage fertility or the unborn child if swallowed.

Inhalation No specific health hazards known.

Ingestion May cause gastrointestinal irritation or discomfort with nausea, vomiting and diarrhea if swallowed.

Skin Contact Skin irritation should not occur when used as recommended. Prolonged exposure to concentrate may cause mild irritation to highly sensitive skin.

Eye contact May cause temporary eye irritation.

Medical considerations Persons with pre-existing skin disorders may be more susceptible to irritating effects.

12. Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient Not available.

Mobility in soil

Mobility The product is soluble in water.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Other adverse effects

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Dispose in accordance with local, state and federal regulations.

14. Transport information

Road transport notes Not classified.

Rail transport notes Not classified.

Sea transport notes Not classified.

Air transport notes Not classified.

SBS-21 Borax-Base Hand Soap

UN Number

Not applicable.

UN proper shipping name

Not applicable.

Transport hazard class(es)

Not applicable.

Packing group

Not applicable.

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Not applicable.

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

15. Regulatory information

Regulatory Status This product is manufactured and labeled in compliance with the Federal Food, Drug, and Cosmetic Act, and is exempt from the labeling requirements of the OSHA Hazard Communication Standard. All components of this product are either on the TSCA 8(b) inventory or otherwise exempt from listing.

US Federal Regulations

SARA 313 Emission Reporting

No.

SARA (311/312) Hazard Categories

Acute
Chronic

OSHA Highly Hazardous Chemicals

Yes

16. Other information

Revision comments Revision of information

Revision date 7/13/2015

Revision 2

Supersedes date 13/05/2013

SDS No. 11233

Hazard statements in full H320 Causes eye irritation.
H360FD May damage fertility. May damage the unborn child.

NFPA - flammability hazard Will not burn. (0)

SBS-21 Borax-Base Hand Soap

NFPA - health hazard	Moderate hazard. (2)
NFPA - instability hazard	Normally stable. (0)
NFPA - special hazard	N/A
ACA HMIS Health rating.	Moderate hazard. (2)
ACA HMIS Physical hazard rating.	Normally stable. (0)
ACA HMIS Personal protection rating.	N/A.
ACA HMIS Flammability rating.	Will not burn. (0)
Notes For Risk Phrases And Hazard Statements In Full	The full text for Risk Phrases and Hazard Statements in section 16 relates to the reference numbers in sections 2 and 3 and not necessarily the finished product classification.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



Triple-2 Germicidal Cleaner

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
 Product name : Triple-2 Germicidal Cleaner
 Product code : 222

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Quat Germicidal Disinfectant

1.3. Details of the supplier of the safety data sheet

Chemco Products Company
 6401 E. Alondra Blvd.
 Paramount, CA 90723 - USA
 T 866-243-6261 - F 562-602-2811
<http://www.chemcoprod.com>

1.4. Emergency telephone number

Emergency number : CHEMTEL: 800-255-3924

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS US classification

Acute Tox. 2 (Inhalation) H330
 Skin Irrit. 2 H315
 Eye Dam. 1 H318
 Aquatic Acute 1 H400
 Aquatic Chronic 2 H411

Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms :



Signal word :

Danger

Hazard statements :

Causes skin irritation.
 Causes serious eye damage.
 Fatal if inhaled.
 Very toxic to aquatic life.
 Toxic to aquatic life with long lasting effects.
 Do not breathe vapors, spray, mist.
 Wash hands and forearms thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Avoid release to the environment.
 Wear eye protection, protective gloves.
 If on skin: Wash with plenty of water.
 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 or doctor/physician.
 Specific treatment (see the emergency and first aid section of this Safety Data Sheet on this label).
 If skin irritation occurs: Get medical advice/attention.
 Take off contaminated clothing and wash it before reuse.
 Collect spillage.
 Store in a well-ventilated place. Keep container tightly closed.

Triple-2 Germicidal Cleaner

Safety Data Sheet

Store locked up.

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

2.3. Hazard not otherwise classified (HNOC)

No additional information available.

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable.

(NOTE: If component displays the * (asterisk) symbol, the following statement applies.)

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.

Full text of H-phrases: see section 16

3.2. Mixture

Name	Product identifier	%	GHS US classification
alcohols, C12-15, ethoxylated	Proprietary	3 - < 5	Eye Dam. 1, H318
alkyl dimethyl benzyl ammonium chloride (C12-18)	(CAS-No.) 68391-01-5	1 - < 3	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
C12-C14-alkyl(ethylbenzyl)dimethylammonium chloride	(CAS-No.) 85409-23-0	1 - < 3	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Other components below reportable levels		90-100	

(NOTE: If component displays the * (asterisk) symbol, the following statement applies.)

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: If skin irritation or rash occurs: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation persists, get medical attention.
First-aid measures after eye contact	: 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 or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
Symptoms/effects after skin contact	: Causes skin irritation. May cause moderate irritation.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: FOLLOWING SYMPTOMS MAY APPEAR LATER: Gastrointestinal complaints. Irritation of the gastric/intestinal mucosa.

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Alcohol-resistant foam. BC powder. Carbon dioxide. Dry chemical powder. Sand/earth.
Unsuitable extinguishing media	: No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Reactivity	: Reacts with (some) halogen compounds.
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5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
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Triple-2 Germicidal Cleaner

Safety Data Sheet

Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: No additional information available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Isolate from fire, if possible, without unnecessary risk.

6.1.1. For non-emergency personnel

Protective equipment : Protective goggles.
Protective gloves.
Protective clothing.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply.
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Wash down leftovers with plenty of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Restricted to professional users. Do not get in eyes, on skin, or on clothing. Do not breathe mist, vapors. Ensure good ventilation of the work station. Observe very strict hygiene - avoid contact. Obtain special instructions before use. Provide good ventilation in process area to prevent formation of vapor. Use personal protective equipment as required.
Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and forearms thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.
Incompatible products : Strong acids. Oxidizing agent.
Storage area : Store in a cool, dry well-ventilated area. Keep container tightly closed when not in use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

ethanol (64-17-5)		
OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. In case of insufficient ventilation, wear suitable respiratory equipment.

Other information : Do not eat, drink or smoke during use.

Triple-2 Germicidal Cleaner

Safety Data Sheet

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
 Color : Clear yellow
 Odor : Lemon
 Odor threshold : No data available
 pH : 11 - 12
 Melting point : No data available
 Freezing point : No data available
 Boiling point : No data available
 Flash point : > 201 °F
 Relative evaporation rate (butyl acetate=1) : No data available
 Flammability (solid, gas) : No data available
 Explosion limits : No data available
 Vapor pressure : No data available
 Vapor density : No data available

Specific Gravity @ 77° F : 1.022 - 1.042
 Solubility : Soluble in water
 Partition Coefficient n-Octanol-Water : No data available
 Auto-ignition temperature : No data available
 Decomposition temperature : No data available
 Viscosity : No data available

9.2. Other information

VOC content : < 5 g/l CARB VOC

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with (some) halogen compounds.

10.2. Chemical stability

Stable under recommended conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Oxidizers.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Triple-2 Germicidal Cleaner	
ATE US (gases)	100 ppmV/4h
ATE US (vapors)	0.5 mg/l/4h
ATE US (dust, mist)	0.05 mg/l/4h
sodium carbonate (497-19-8)	
LD50 oral rat	2800 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value)

Triple-2 Germicidal Cleaner

Safety Data Sheet

sodium carbonate (497-19-8)	
ATE US (oral)	2800 mg/kg body weight
alkyl dimethyl benzyl ammonium chloride (C12-18) (68391-01-5)	
LD50 oral rat	650 mg/kg
ATE US (oral)	650 mg/kg body weight
C12-C14-alkyl(ethylbenzyl)dimethylammonium chloride (85409-23-0/68956-79-6)	
LD50 oral rat	350 mg/kg
LD50 dermal rabbit	3000 mg/kg
ATE US (oral)	350 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
ethanol (64-17-5)	
LD50 oral rat	10740 mg/kg body weight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit; Literature study)
ATE US (oral)	10740 mg/kg body weight
alcohols, C12-15, ethoxylated (68131-39-5)	
LD50 oral rat	> 200 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
Skin corrosion/irritation	: Causes skin irritation. pH: 11 - 12
Serious eye damage/irritation	: Causes serious eye damage. pH: 11 - 12
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects after skin contact	: Causes skin irritation. May cause moderate irritation.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: FOLLOWING SYMPTOMS MAY APPEAR LATER: Gastrointestinal complaints. Irritation of the gastric/intestinal mucosa.

SECTION 12: Ecological information

12.1. Toxicity

sodium carbonate (497-19-8)	
LC50 fish 1	300 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 1	< 424 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	14 mg/l (168 h; Plankton)
LC50 fish 2	740 mg/l (96 h; Gambusia affinis)
EC50 Daphnia 2	265 mg/l (48 h; Daphnia magna)
TLM fish 1	300 ppm (96 h; Lepomis macrochirus)
TLM other aquatic organisms 1	500 ppm (96 h; Daphnia magna)
Threshold limit algae 1	242 mg/l (5 days; Algae)
ethanol (64-17-5)	
LC50 fish 1	14200 mg/l (96 h; Pimephales promelas; Nominal concentration)
EC50 Daphnia 1	9300 mg/l (48 h; Daphnia magna)
LC50 fish 2	13000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)

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ethanol (64-17-5)	
EC50 Daphnia 2	10800 mg/l (24 h; Daphnia magna)
Threshold limit other aquatic organisms 1	65 mg/l (72 h; Protozoa)
Threshold limit algae 1	1450 mg/l (192 h; Microcystis aeruginosa; Growth rate)
Threshold limit algae 2	5000 mg/l (168 h; Scenedesmus quadricauda; Growth rate)

alcohols, C12-15, ethoxylated (68131-39-5)	
LC50 fish 1	1.2 mg/l (PISCES; ESTIMATED VALUE)
EC50 Daphnia 1	1.3 mg/l (ACTIVATED SLUDGE; ESTIMATED VALUE)
EC50 other aquatic organisms 1	0.7 mg/l (ALGAE; ESTIMATED VALUE)
EC50 other aquatic organisms 2	> 100 mg/l (ACTIVATED SLUDGE; ESTIMATED VALUE)

12.2. Persistence and degradability

sodium carbonate (497-19-8)	
Persistence and degradability	Biodegradability: not applicable. Low potential for absorption in soil.
ThOD	Not applicable (inorganic)

ethanol (64-17-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	0.8 - 0.967 g O ₂ /g substance
Chemical oxygen demand (COD)	1.7 g O ₂ /g substance
ThOD	2.1 g O ₂ /g substance
BOD (% of ThOD)	0.43 % ThOD

alcohols, C12-15, ethoxylated (68131-39-5)	
Persistence and degradability	Literature reports: readily degradable in water. test: 81 %, OECD 302B Zahn- Well. Biodegradability in soil: no data available.

12.3. Bioaccumulative potential

sodium carbonate (497-19-8)	
Log Pow	-6.19 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

ethanol (64-17-5)	
Log Pow	-0.31 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

alcohols, C12-15, ethoxylated (68131-39-5)	
Log Pow	3
Bioaccumulative potential	According to literature, not bioaccumulative.

12.4. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with Local, State, and Federal regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN Number

DOT : Not Regulated as dangerous goods

IATA : UN3082 Environmentally hazardous substance, Liquid, N.O.S. (Quaternary Ammonium Chloride), 9, PG III
Environmental hazards – YES

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IMDG

: UN3082 Environmentally hazardous substance, Liquid, N.O.S. (Quaternary Ammonium Chloride), 9, PG III

Environmental hazards, Marine Pollutant – YES

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
IATA; IMDG



SECTION 15: Regulatory information

15.1. US Federal regulations

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) 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.

sodium carbonate (497-19-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
-------------------------------------	---------------------------------

alkyl dimethyl benzyl ammonium chloride (C12-18) (68391-01-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
-------------------------------------	---------------------------------

C12-C14-alkyl(ethylbenzyl)dimethylammonium chloride (85409-23-0/68956-79-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
-------------------------------------	---------------------------------

ethanol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard Fire hazard
-------------------------------------	---

alcohols, C12-15, ethoxylated (68131-39-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
--------------------------	---

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
-------------------------------------	---------------------------------

15.2. International regulations

CANADA

ethanol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List).

alcohols, C12-15, ethoxylated (68131-39-5)

Listed on the Canadian DSL (Domestic Substances List).

EU-Regulations

No additional information available.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

EPA Registration Number

: 1839-95-10693 • EPA Est. No. 10693-CA-1

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EPA Comments

: This chemical is a pesticide registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.

KEEP OUT OF REACH OF CHILDREN

DANGER

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. Wear goggles or face shield, rubber gloves and protective clothing. Harmful if swallowed. Remove contaminated clothing and wash before reuse. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Contains no phosphorous.

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 poison control center or doctor for treatment advice. IF SWALLOWED: Call 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.

15.3. US State regulations

Prop 65 Comments :

WARNING: This product can expose you to chemicals including Acetaldehyde, which are known to the State of California to cause cancer. This product can expose you to chemicals including Ethylene Glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

Abbreviations Legend:

H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H350	May cause cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Triple-2 Germicidal Cleaner

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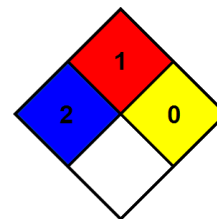
H411

Toxic to aquatic life with long lasting effects

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 2

Flammability : 1

Physical : 0

Personal protection : B

B - Safety glasses, Gloves

Disclaimer (Test)

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Revision date: 04/01/2021

Supersedes: 07/16/2020

Version: 1.5

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : **RMC All Purpose Cleaner**
Product code : 263

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : All Purpose Cleaner

1.3. Details of the supplier of the safety data sheet

Chemco Products Company
19402 Susana Rd.
Rancho Dominguez, CA 90221 - USA
T 800-266-2116 - F 310-631-7496
<http://www.flo-kem.com>

1.4. Emergency telephone number

Emergency number : CHEMTEL: 800-255-3924

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Irrit. 2 H315
Eye Irrit. 2A H319

Full text of H statements : see section 16

2.2. Label elements

GHS US labelling

Hazard pictograms :



GHS07

Signal word : Warning

Hazard statements : Causes skin irritation.
Causes serious eye irritation.

Precautionary statements : Wash hands and forearms thoroughly after handling.
Wear eye protection, protective gloves.
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.
Specific treatment (see the emergency and first aid section on this label).
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

2.3. Hazard not otherwise classified (HNOC)

No additional information available.

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

(NOTE: If component displays the * (asterisk) symbol, the following statement applies.)

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.

Full text of H-statements: see section 16

3.2. Mixtures

RMC All Purpose Cleaner

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Name	Product identifier	%	GHS-US classification
2-(2-butoxyethoxy)ethanol	(CAS-No.) 112-34-5	1 - 5	Eye Irrit. 2A, H319
poly(oxy-1,2-ethanediyl), a-undecyl-w-hydroxy-	(CAS-No.) 34398-01-1	1 - 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 2, H401

(NOTE: If component displays the * (asterisk) symbol, the following statement applies.)

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: If skin irritation or rash occurs: Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation persists, get medical attention.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: FOLLOWING SYMPTOMS MAY APPEAR LATER: Irritation of the gastric/intestinal mucosa. Irritation of the oral mucous membranes.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Alcohol-resistant foam. BC powder. Carbon dioxide. Dry chemical powder. Sand/earth.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: No additional information available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Isolate from fire, if possible, without unnecessary risk.
------------------	---

6.1.1. For non-emergency personnel

Protective equipment	: Protective goggles. Protective gloves.
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with appropriate safety equipment.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Contain released product, pump into suitable containers. Plug the leak, cut off the supply.
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe mist, vapors. Ensure good ventilation of the work station. Observe normal hygiene standards. Use personal protective equipment as required.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and forearms thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Incompatible products : Strong acids. Oxidizing agent.

Storage area : Store in a cool, dry well-ventilated area. Keep container tightly closed when not in use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-(2-butoxyethoxy)ethanol (112-34-5)		
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	ACGIH STEL (ppm)	10 ppm

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Other information : Do not eat, drink or smoke during use.

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Clear blue-green

Odour : Wintergreen

Odour threshold : No data available

pH : 12 - 13

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : > 200 °F

Relative evaporation rate (butylacetate=1) : No data available

Flammability (solid, gas) : No data available

Explosive limits : No data available

Vapour pressure : No data available

Vapor density : No data available

Specific Gravity @ 77° F : 1.015 - 1.035

Solubility : Soluble in water

Partition Coefficient n-Octanol-Water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

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Viscosity : No data available

9.2. Other information

VOC content : < 1 g/l CARB VOC

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

Stable under recommended conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Oxidizers.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Phosphorus oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

poly(oxy-1,2-ethanediyl), a-undecyl-w-hydroxy- (34398-01-1)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
ATE US (oral)	500 mg/kg bodyweight

2-(2-butoxyethoxy)ethanol (112-34-5)

LD50 oral rat	5660 mg/kg (Rat)
LD50 dermal rabbit	2764 mg/kg (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)
ATE US (oral)	5660 mg/kg bodyweight
ATE US (dermal)	2764 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.

pH: 12 - 13

Serious eye damage/irritation : Causes serious eye irritation.

pH: 12 - 13

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met.

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met.

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : FOLLOWING SYMPTOMS MAY APPEAR LATER: Irritation of the gastric/intestinal mucosa.
Irritation of the oral mucous membranes.

SECTION 12: Ecological information

12.1. Toxicity

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poly(oxy-1,2-ethanediyl), a-undecyl-w-hydroxy- (34398-01-1)

LC50 fish 1	≈ 7.5 (5 - 10) mg/l
EC50 Daphnia 1	≈ 7.5 (5 - 10) mg/l
ErC50 (algae)	≈ 50 (1 - 100) mg/l

2-(2-butoxyethoxy)ethanol (112-34-5)

LC50 fish 1	1300 mg/l (96 h; Lepomis macrochirus)
LC50 other aquatic organisms 1	10 - 100 mg/l (96 h)
EC50 Daphnia 1	2850 mg/l (24 h; Daphnia magna; GLP)
LC50 fish 2	1805 mg/l (48 h; Leuciscus idus)
EC50 Daphnia 2	> 100 mg/l (48 h; Daphnia magna)
TLM fish 1	10 - 100,96 h; Pisces
TLM other aquatic organisms 1	10 - 100,96 h
Threshold limit other aquatic organisms 1	10 - 100,96 h
Threshold limit algae 1	53 mg/l (192 h; Microcystis aeruginosa)
Threshold limit algae 2	>= 100 mg/l (96 h; Scenedesmus subspicatus)

12.2. Persistence and degradability

2-(2-butoxyethoxy)ethanol (112-34-5)

Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test) data on mobility of the substance available. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.25 g O ₂ /g substance
Chemical oxygen demand (COD)	2.08 g O ₂ /g substance
ThOD	2.173 g O ₂ /g substance
BOD (% of ThOD)	0.11 % ThOD

12.3. Bioaccumulative potential

2-(2-butoxyethoxy)ethanol (112-34-5)

BCF fish 1	0.46 (QSAR)
Log Pow	0.56 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with Local, State, and Federal regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN Number

UN-No.(DOT) : Not Regulated
Other information : No supplementary information available.

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not Regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

2-(2-butoxyethoxy)ethanol	CAS-No. 112-34-5	1 - 5%
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RMC All Purpose Cleaner

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poly(oxy-1,2-ethanediyl), a-undecyl-w-hydroxy- (34398-01-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
-------------------------------------	---------------------------------

2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

Subject to reporting requirements of United States SARA Section 313.

Listed on the Canadian DSL (Domestic Substances List).

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
-------------------------------------	--

SARA Section 313 - Emission Reporting	1 %
---------------------------------------	-----

15.2. International regulations

CANADA

2-(2-butoxyethoxy)ethanol (112-34-5)

Listed on the Canadian DSL (Domestic Substances List).

EU-Regulations

No additional information available.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.

SECTION 16: Other information

Abbreviations Legend:

H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H401	Toxic to aquatic life

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ALL NON-EMERGENCY QUESTIONS SHOULD BE DIRECTED TO CUSTOMER SERVICE (310) 632-7124

Revision date: 10/07/2020

Supersedes: 02/27/2020

Version: 1.2

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

Product form : Mixture
 Product name : **Neutra Brite**
 Product code : 5767

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : All Purpose Low Foam Cleaner

1.3. Details of the supplier of the safety data sheet

Flo-Kem
 19402 Susana Rd.
 Rancho Dominguez, CA 90221 - USA
 T 310-632-7124 - F 310-631-7496
<http://www.flo-kem.com>

1.4. Emergency telephone number

Emergency number : CHEMTEL: 800-255-3924

SECTION 2: Hazards identification
2.1. Classification of the substance or mixture
GHS US classification

Eye Irrit. 2A H319
 Skin Sens. 1 H317

Full text of H statements : see section 16

2.2. Label elements
GHS US labeling

Hazard pictograms :



GHS07

Signal word : Warning

Hazard statements : May cause an allergic skin reaction.
 Causes serious eye irritation.

Precautionary statements : Avoid breathing mist, vapors.
 Wash hands and forearms thoroughly after handling.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear eye protection, protective gloves, protective clothing.
 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 or rash occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 Take off contaminated clothing and wash before reuse.
 Dispose of contents/container in accordance with Local, State, and Federal regulations.

2.3. Hazard not otherwise classified (HNOC)

No additional information available.

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients
3.1. Substances

Not applicable.

(NOTE: If component displays the * (asterisk) symbol, the following statement applies.)

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.

Full text of H-phrases: see section 16

Neutra Brite

Safety Data Sheet

3.2. Mixture

Name	Product identifier	%	GHS US classification
alcohols, C9-11, ethoxylated	(CAS-No.) 68439-46-3	1 - 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
(+)-limonene	(CAS-No.) 5989-27-5	0.1 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

(NOTE: If component displays the * (asterisk) symbol, the following statement applies.)

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: If skin irritation or rash occurs: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation persists, get medical attention.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. May cause slight irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: FOLLOWING SYMPTOMS MAY APPEAR LATER: Irritation of the gastric/intestinal mucosa. Irritation of the oral mucous membranes. Nausea.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Alcohol-resistant foam. BC powder. Carbon dioxide. Dry chemical powder. Sand/earth.
Unsuitable extinguishing media	: No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

No additional information available.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: No additional information available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Isolate from fire, if possible, without unnecessary risk.
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6.1.1. For non-emergency personnel

Protective equipment	: Protective goggles. Protective gloves. Protective clothing.
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
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Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply.
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Wash down leftovers with plenty of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapors. Ensure good ventilation of the work station. Observe normal hygiene standards. Provide good ventilation in process area to prevent formation of vapor. Use personal protective equipment as required.
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and forearms thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation. Comply with applicable regulations.
Incompatible products : Strong acids. Oxidizing agent.
Storage area : Store in a cool, dry well-ventilated area. Keep container tightly closed when not in use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.
Hand protection : Wear protective gloves.
Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Wear suitable protective clothing.
Respiratory protection : Respiratory protection not required in normal conditions.
Other information : Do not eat, drink or smoke during use.
Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Clear yellow
Odor : Lemon
Odor threshold : No data available
pH : 8.5 - 9.5
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : > 200 °F
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : No data available
Explosion limits : No data available
Vapor pressure : No data available
Vapor density : No data available

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Specific Gravity @ 77° F	: 0.997 - 1.017
Solubility	: Soluble in water
Partition Coefficient n-Octanol-Water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available

9.2. Other information

VOC content	: < 15 g/l CARB VOC
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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Oxidizers.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides. Sulfur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
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alcohols, C9-11, ethoxylated (68439-46-3)	
LD50 oral rat	1378 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
ATE US (oral)	1378 mg/kg body weight

(+)-limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across)
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)
ATE US (oral)	4400 mg/kg body weight

Skin corrosion/irritation	: Not classified pH: 8.5 - 9.5
Serious eye damage/irritation	: Causes serious eye irritation. pH: 8.5 - 9.5
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met.
Carcinogenicity	: Not classified

(+)-limonene (5989-27-5)	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met.
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified

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Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. May cause slight irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: FOLLOWING SYMPTOMS MAY APPEAR LATER: Irritation of the gastric/intestinal mucosa. Irritation of the oral mucous membranes. Nausea.

SECTION 12: Ecological information

12.1. Toxicity

alcohols, C9-11, ethoxylated (68439-46-3)	
LC50 fish 1	5.7 mg/l (Rainbow trout)
EC50 Daphnia 1	2.5 mg/l
(+)-limonene (5989-27-5)	
LC50 fish 1	720 µg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 1	0.36 mg/l (48 h; Daphnia magna; GLP)
LC50 fish 2	702 µg/l (96 h; Pimephales promelas)
Threshold limit algae 1	150 mg/l (72 h; Desmodesmus subspicatus; GLP)
Threshold limit algae 2	2.62 mg/l (72 h; Desmodesmus subspicatus)

12.2. Persistence and degradability

alcohols, C9-11, ethoxylated (68439-46-3)	
Persistence and degradability	Readily biodegradable in water.
(+)-limonene (5989-27-5)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Absorbs into the soil.
ThOD	3.29 g O ₂ /g substance

12.3. Bioaccumulative potential

alcohols, C9-11, ethoxylated (68439-46-3)	
Bioaccumulative potential	No bioaccumulation data available.
(+)-limonene (5989-27-5)	
BCF fish 1	864.8 - 1022 (Pisces; Fresh weight)
Log Pow	4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 37 °C)
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).

12.4. Other adverse effects

Other information	: Avoid release to the environment.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose of contents/container in accordance with Local, State, and Federal regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

14.1. UN Number

UN-No.(DOT)	: Not Regulated
Other information	: No supplementary information available.

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Not Regulated
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SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

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silica,precipitated	CAS-No. 112926-00-8	< 0.1%
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This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) 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.

formaldehyde	CAS-No. 50-00-0	< 0.1%
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alcohols, C9-11, ethoxylated (68439-46-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.
Listed on the Canadian DSL (Domestic Substances List).

EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

(+)-limonene (5989-27-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.
Listed on the Canadian DSL (Domestic Substances List).

SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
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15.2. International regulations

CANADA

alcohols, C9-11, ethoxylated (68439-46-3)

Listed on the Canadian DSL (Domestic Substances List).

(+)-limonene (5989-27-5)

Listed on the Canadian DSL (Domestic Substances List).

EU-Regulations

No additional information available.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

15.3. US State regulations

This product can expose you to formaldehyde, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Prop 65 Comments : Formaldehyde (CAS#50-00-0): < 10 ppm

SECTION 16: Other information

Abbreviations Legend:

H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects


Disclaimer

This document is generated for the purpose of distributing health, safety, and environmental data. The information and recommendations are presented in good faith and believed to be from reliable sources, however, the information is provided without any warranty, expressed or implied, regarding its completeness or accuracy. Some information is from sources other than direct test data on the material itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and for this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of the product.

ALL NON-EMERGENCY QUESTIONS SHOULD BE DIRECTED TO CUSTOMER SERVICE (310) 632-7124

Revision date: 02/27/2020 Supersedes: 12/01/2017 Version: 1.2

Safety Data Sheet

Section 1 - Product Information					
Product Name: Bio Base Floor Wash				Supplier:	Beyond Clean, LLC
Product Code Number: 0845		Information Phone: 561-799-6897		Address:	1095 Jupiter Park Drive, Ste 7 Jupiter, FL 33458
Product use:	Neutral Floor Cleaner.	Emergency Contact: 800-426-4246			
Section 2 - Hazard Identification					
GHS classification eye irritant(category 2A) , skin irritant (category 2)					
Section 2.1 - Label Elements					
Hazard Pictograms 		Precautionary Statements: Read label before use. If medical advise is needed, have product container or label at hand. Do not get in eyes or on skin. Wear eye protection and protective gloves. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothes and wash before reusing. If skin irritation occurs get medical attention. 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 attention. Wash hands after handling.			
Signal Word: Warning					
Hazard Statements: Causes serious eye irritation. Causes skin irritation.					
Section 3 - Composition					
Chemical Name		CAS #		Percent w/w	
Sodium (C10-C16)Benzene Sulfonate		68081-81-2		< 11	
Section 4 - First Aid Measures					
Skin: Flush with flowing water for 15 min. Consult a physician if irritation occurs					
Eyes: In case of eye contact, rinse with plenty of water and seek medical attention if irritation persists					
Inhalation: Remove to fresh air					
INGESTION: Give milk or water to dilute material. DO NOT induce vomiting. Avoid alcohol. Never give anything by mouth to an unconscious person. Call a POISON center or doctor if you feel unwell.					
Section 5 - Fire and Explosion Hazard Data					
Flash Point:	Limits	Extinguishing Media:	Special Fire Fighting Procedures: Avoid exposure to fumes or vapors.		
NA	LEL: NA	Water spray or fog, foam, dry chemical, carbon dioxide, alcohol foam if product involved	Wear self-contained positive pressurized breathing apparatus		
	UEL: NA		MSHA/NIOSH Approved or equivalent to maintain TLV. UNUSUAL FIRE & EXPLOSION HAZARD: Product will not burn.		
Section 6 - Accidental Release Measures					
Mop up spills and flush to sewers with plenty of water. Floors may be slippery, use care to avoid falls.					
Section 7 - Handling and Storage					
For institutional and industrial use only, not intended for consumer use. Store upright in original closed container.					
Section 8 - Exposure Controls/PPE					
Ingredient	OSHA PEL:	ACGIH TLV	PPE		General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practices. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.
Sodium (C10-C16)Benzene Sulfonate	NE	NE	Respiratory:	not normally required	
			Eye:	safety glasses	
			Skin:	not normally required	
			Ventilation	Normal room ventilation	

Section 9 - Physical and Chemical Properties

Appearance	odor	odor threshold	pH	Melting Point	Boiling point	Evaporation rate	Flammability	Upper/lower flammability limits	Vapor pressure
Green Liquid	Fresh	NE	8.5	NE	212°F	>1.0(water =1)	No	NA	17mm(Hg)
Vapor Density	Density (lbs/gal)	Specific Gravity	pH(use dil)	Solubility(H ₂ O)	Partition coefficient	Auto Ignition temp	Decomposition Temp	Viscosity	
.62(water = 1)	8.4	1.006	8	complete	NE	NA	NA	Water thin	

Section 10 - Stability and Reactivity

Product is stable. Hazardous polymerization will not occur. It is incompatible with strong oxidizing agents. If burned normal combustion products such as Carbon Dioxide, Carbon Monoxide and Nitrous Oxides may occur.

Section 11- Toxicological Information

ingredient	Acute toxicity(oral LD50) rat	Acute toxicity(derm. LD50)rabbit	Skin and Eye	Carcinogen	Mutagen	Reproduct. Toxicity	STOST -single Exposure	STOST Repeated exposure
Sodium (C10-C16)Benzene Sulfonate	>1000mg/kg	>2000mg/kg	no info	no info	no info	no info	no info	no info

Other:

Section 12 - Ecological Information

No information available

Section 13 - Disposal Considerations

The products covered by this SDS, in their original form, are considered nonhazardous waste according to RCRA(40 CFR 261).Dispose of in accordance with applicable Federal, State and Local regulations.

Section 14 - Transport Information

UN number	Basic Description(DOT)	Class	Packing Group	LTD QTY
	Not Regulated			

Section 15 - Regulatory Information

SARA Title 3: Does not contain reportable chemicals under sections 302, 304, or 313 of Title III of the Superfund amendments and Reauthorization Act of 1986. CERCLA:Does not contain chemicals subject to reporting under CERCLA. For more information consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68

Section 16 - Other Information

WHMIS:		HMIS: H - 1 F - 0 R - 0	PPE - A
Date Prepared: 01-23-2015		Prepared by: Environmental, Health and Safety Administrator.	
Date Prepared: 03-16-2015			

Legend for Abbreviations: NA - not applicable NE - Not Established

SAFETY DATA SHEET

SECTION 1 : PRODUCT IDENTIFICATION



Product Name : Bioesque Botanical Disinfectant Solution

Product Use : Surface Disinfectant

Scent: Lemongrass Grapefruit

Supplier: Natureal, LLC

Address: 150 East Palmetto Park Road, Suite 150, Boca Raton, FL 33432

Telephone: 954-895-7867

Emergency phone: (866) 898-0697

E-Mail: info@bioesquesolutions.com

Web site: www.bioesquesolutions.com

SECTION 2 : HAZARD IDENTIFICATION

WHMIS Class : Exempt

TSCA: All the ingredients are listed or exempt from listing on the Chemical Substance Inventory.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>Wt %</u>	<u>TLV</u>	<u>LC₅₀</u>	<u>LD₅₀</u>
Thymol	89-83-8	0.23	N/A	N/A	980 mg/Kg (oral, rat)

SECTION 4 : FIRST AID MEASURES

Eye: Remove contact lenses. Rinse with plenty of water for several minutes, keeping eyelids open.

Skin: Rinse with water. Remove spoiled clothes and wash before wearing.

Inhalation : N/A

Ingestion: Seek medical attention if large quantities are ingested.

SECTION 5 : FIRE FIGHTING MEASURES

Flammability : No

Flash Point (ASTM D-93, °C) : >100

Hazardous Combustion Products: Carbon oxides, sulfur oxides.

Suitable extinguishing media: As per surrounding fire.

Special Fire Fighting Procedure: As per surrounding fire.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: Stop leak, Rinse to drain or absorb with non-reactive adsorbent and dispose according to existing federal, state, provincial and municipal regulations. Resume cleaning by rinsing with water.

SECTION 7 : HANDLING AND STORAGE

Handling: Follow standard safe handling of materials. Keep out of reach of children.

Storage Requirements: Keep in original tightly closed containers, in a room below 30 °C.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

Follow standard safe handling of materials.

SECTION 9 : PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (°C) : 100
Vapor Pressure (mm Hg) : N/A
Vapor Density (Air = 1) : N/A
Solubility in water : complete
Physical State : liquid
Appearance: transparent to translucent
Odour: spicy scent

Density (g/mL): 0.999 at 23 °C
VOC (Wt %) : calculated approx. <1%
Evaporation Rate (Water + 1) : water like
pH (as supplied) : 7.0 to 8.5
Viscosity : water like
Odour Threshold (ppm) : N/A

SECTION 10 : STABILITY AND REACTIVITY DATA

Conditions for Chemical Instability: This product is stable under normal conditions. It does not polymerize.

Conditions to Avoid: Excessive heat.

Incompatible Materials: Strong oxidizing agents, strong alkalis, strong acids.

Hazardous Decomposition Products: The thermal decomposition can produce carbon and sulfur oxides and other organic substances.

SECTION 11 : TOXICOLOGICAL INFORMATION

Routes of Entry: Eyes, skin, ingestion, inhalation.

EFFECTS OF ACUTE EXPOSURE :

Acute Oral Toxicity: LD50:>5000 mg/Kg (EPA Category IV).

Acute Dermal Toxicity: LD50:>5000 mg/Kg (EPA Category IV).

Acute Inhalation Toxicity: LC50:>2.01 mg/L (EPA Category IV).

Acute Eye Irritation: Minimal, all effects cleared in 24 hours (EPA Category IV).

Acute Dermal Irritation: Slight, no erythema or edema at 72 hours (EPA Category IV).

Skin Sensitization: Not a sensitizer (EPA Category IV).

Classified as a Category IV by the U.S. Environmental Protection Agency (EPA) per toxicity profile Review for all routes of exposure: no signal words, no precautionary statements or first aid statements required on product label.

EFFECTS OF CHRONIC EXPOSURE :**Irritancy:** Frequent prolonged contact may result in dry skin, redness and dermatitis.**Carcinogenicity/Mutagenicity:** No, not predictable.**SECTION 12 : ECOLOGICAL INFORMATION****Biodegradability:** Readily Biodegradable (OECD 301E)**Aquatic toxicity:** Not toxic to aquatic life (IC50 > 100 mg/L, report EPS 1 / RM / 24)**Method:** Microtox® Acute Toxicity Test**Test organism:** *Vibrio fischeri*

Results:

CI 50-5 min	560mg/l
IC 95 %-5 min	500-600 mg/L
CI 50-15 min	660 mg/L
IC 95 %-15 min	540-780 mg/L

SECTION 13 : DISPOSAL CONSIDERATIONS**Waste Disposal:** Dispose according to existing federal, state/provincial and municipal regulations. This product is biodegradable.**SECTION 14 : TRANSPORT INFORMATION****D.O.T.** Not regulated as dangerous goods.Not regulated for **IATA**.**SECTION 15 : REGULATORY INFORMATION**

U.S. EPA registration: 87742-1-92595

California Proposition 65: No chemicals in this material are subject to the reporting requirements.

NSF Registration No. 157263

SECTION 16 : OTHER INFORMATION

SDS Date of preparation/revision: 2018-08-15

Prepared by: LABORATOIRE M2 Inc.

Phone : 1-866-898-0697



Disclaimer

Information for this material safety data sheet 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 mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Center for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8276) or CSST in Montreal (514-873-3990).

SAFETY DATA SHEETS

1. Identification – Product and company identification

CHEMTREC EMERGENCY TEL: 1-800-424-9300

O.C.C.S. 10680 FERN AVE STANTON, CA 90680

PRODUCT ITEM#: 52412,52413,52414,52415-BLEACH

DATE PREPARED: 3/10/15

RECOMMENDED USE: Cleaning & Deodorizing

RESTRICTIONS ON USE: For Industrial and Professional Use

PRODUCT DILUTION INFORMATION: Ready to use

2. Hazardous Identification

Physical hazards Corrosive to metals Category 1

Health hazards Skin corrosion/irritation Category 1, Serious eye damage/eye irritation Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Hazardous to the aquatic environment, acute hazard Category 1

Environmental hazards Hazardous to the aquatic environment, Category 2 long-term hazard

OSHA defined hazards Not classified.



Signal Word: Danger

Hazard Statements: May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS: Prevention Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist or vapor. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Keep only in original container. Avoid release to the environment. **Response** If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower. 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. Absorb spillage to prevent material damage. Collect spillage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.

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

OTHER HAZARDS: None known

3. Composition/information on ingredients

SUBSTANCE/MIXTURE: CHEMICAL NAME: Mixture

Sodium hypochlorite 7681-52-9

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. Wash off IMMEDIATELY with plenty of water for at least 15-20 minutes. Get medical attention immediately. Wash contaminated clothing before reuse. Call a physician or poison control center immediately.

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. 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

Corrosive effects. 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

Treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. With eye exposure, continue flushing during transport to hospital.

SAFETY DATA SHEETS

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. Do not use dry extinguishing media that contains ammonium compounds.

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

In case of fire and/or explosion do not breathe fumes. 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. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Absorb spillage to prevent material damage. 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

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 in original containers for re-use. For waste disposal, see Section 13 of the SDS.

Environmental precautions Do not discharge into drains, water courses or onto the ground. Environmental manager must be informed of all major releases.

7. Handling and storage

Precautions for safe handling Wear appropriate personal protective equipment. Do not get in eyes, on skin, on clothing. Use with

adequate ventilation. Observe good industrial hygiene practices. Do not apply heat or direct sunlight. Temperature and product concentration affect product quality and decomposition rates.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool and well-ventilated place. Store in a corrosive resistant container. Consult container manufacturer for additional guidance. Store away from and do not mix with incompatible materials such as acids, oxidizers, organics, reducing agents, and all metals except titanium.

8. Exposure controls/personal protection

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

Components Type Value Sodium hydroxide (CAS PEL 2 mg/m³ 1310-73-2)

US. ACGIH Threshold Limit Values Components Type Value Sodium hydroxide (CAS Ceiling 2 mg/m³ 1310-73-2)

US. NIOSH: Pocket Guide to Chemical Hazards Components Type Value Sodium hydroxide (CAS Ceiling 2 mg/m³ 1310-73-2)

US. Workplace Environmental Exposure Level (WEEL) Guides Components Type Value Sodium hypochlorite (CAS STEL 2 mg/m³ 7681-52-9)

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) and a face shield. Wear a full-face respirator, if needed.

Skin protection Hand protection Wear appropriate chemical resistant gloves. **Other** Wear appropriate chemical resistant clothing. Reports indicate that sodium hypochlorite can react with various fabrics usually increasing with concentration. Reactions vary significantly depending on strength of chemical, material, fabric treatment and color of dyes. FRC treated

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cotton has a stronger response than plain cotton. Poly blend fabrics and meta aramid fabric have a weaker response than natural fibers. Contact the Personal Protective Equipment manufacturer for specific information about their products.

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 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 Physical state Liquid. **Form** Liquid. **Color** Not available. **Odor** Pungent. **Odor threshold** 0.9 mg/m³
pH 12 - 14 (25 °C/77 °F) **Melting point/freezing point** -4 °F (-20 °C) (7% solution) **Initial boiling point and boiling range**
 Not available.

Flash point Not applicable **Evaporation rate** No data available **Flammability (solid, gas)** Not available. **Upper/lower flammability or explosive limits** **Flammability limit – lower (%)** Not applicable **Flammability limit – upper (%)** Not applicable

Explosive limit - lower (%) Not available. **Explosive limit - upper (%)** Not available. **Vapor pressure** 12 mm Hg (20°C/68°F)

Vapor density Not available. **Relative density** Not available. **Solubility(ies)** **Solubility (water)** Completely miscible

Partition coefficient (n-octanol/water) Not available. **Auto-ignition temperature** Not applicable

Decomposition temperature Not available. **Viscosity** Not available. **Other information** **Bulk density** Not applicable

Molecular formula NaOCl **Molecular weight** 74.5 g/mol

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. Avoid ultraviolet (UV) light sources. Excessive heat. Reacts violently with strong acids. Acid contact will produce chlorine gas. Amine contact will produce chloramines.

Incompatible materials Strong oxidizing agents. Acids. Metals. Organic compounds. Ammonia.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure **Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

Inhalation Vapors and spray mist may irritate throat and respiratory system and cause coughing. **Skin contact** Causes skin burns. **Eye contact** Causes eye burns. **Symptoms related to the physical, chemical and toxicological characteristics**

Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. **Information on toxicological effects** **Acute toxicity** Occupational exposure to the substance or mixture may cause adverse effects.

Product Species Test Results Sodium Hypochlorite, 5 - 17% (CAS Mixture) LD50 Rabbit *Dermal* **Acute** > 2 g/kg LD50 Rat *Oral* 3 - 5 /kg * 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** No data available. **Skin sensitization** No data available.

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 Sodium hypochlorite (CAS 7681-52-9) 3 Not classifiable as to carcinogenicity to humans. **Reproductive toxicity** No data available. **Specific target organ toxicity - single exposure**

May cause respiratory irritation. **Specific target organ toxicity - repeated exposure** No data available. **Aspiration hazard** Not classified, however droplets of the product may be aspirated into the lungs through ingestion or vomiting and may cause a serious chemical pneumonia.

Chronic effects Prolonged or repeated overexposure causes lung damage. **Further information** Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. **Product Species Test Results** Sodium Hypochlorite, 5 - 17% (CAS Mixture) **Aquatic** Crustacea LC50 Daphnia 1 mg/l * Estimates for product may be based on additional component data not shown. Fish LC50 Bluegill (*Lepomis macrochirus*) 0.6 mg/l, 48 hours **Persistence and**

SAFETY DATA SHEETS

degradability No data is available on the degradability of this product. **Bioaccumulative potential** No data available for this product. **Mobility in soil** Not 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. This material and its container must be disposed of as hazardous waste. 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.

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 UN number UN1791 **UN proper shipping name** Hypochlorite solutions **Class 8 Transport hazard class(es)**

Subsidiary risk -

Packing group III **Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB3, N34, T4, TP2, **Packaging exceptions** 154 **Packaging non bulk** 203 **Packaging bulk** 241 **IATA**

UN number UN1791 **UN proper shipping name** Hypochlorite solution **Class 8 Transport hazard class(es)** **Subsidiary risk** -

Label(s) 8 **Packing group** III **Environmental hazards** Yes **ERG Code** 8L

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

IMDG UN number UN1791 **UN proper shipping name** HYPOCHLORITE SOLUTION **Class 8 Transport hazard class(es)**

Subsidiary risk - **Label(s)** 8 **Packing group** III **Marine pollutant** Yes **Environmental hazards** EmS F-A, S-B **Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to 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.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4) Sodium hydroxide (CAS 1310-73-2) LISTED

Sodium hypochlorite (CAS 7681-52-9) 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 chemical Yes

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 **US. Massachusetts RTK - Substance List** Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9) **US. New Jersey Worker and Community Right-to-Know Act** Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9) **US. Pennsylvania Worker and Community Right-to-Know Law** Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9) **US. Rhode Island RTK** Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9) **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. **US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance** Not listed.

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 European Inventory of Existing

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Commercial Chemical Substances (EINECS) Europe Yes Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) Yes Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes Philippine Inventory of Chemicals and Chemical Substances (PICCS) Philippines Yes
 *A "Yes" indicates this product complies 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). United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

16. Other information



Issue date 27-February-2014 **Revision date** 15-April-2014 **Version #** 04 **NFPA Ratings**

List of abbreviations LD50: Lethal Dose, 50%.

LC50: Lethal Concentration, 50%.

EC50: Effective concentration, 50%.

TWA: Time weighted average.

References EPA: AQUIRE database HSDB® - Hazardous Substances Data Bank

US. IARC Monographs on Occupational Exposures to Chemical Agents IARC Monographs. Overall Evaluation of Carcinogenicity ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

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.



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DIP IT XP

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DIP IT XP

Other means of identification : Not applicable

Recommended use : All Purpose Cleaner

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.37 % - 0.75 %

Company : Ecolab Inc.
1 Ecolab Place
St. Paul, Minnesota USA 55102
1-800-352-5326

Emergency health information : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 12/05/2019

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

Acute toxicity (Oral) : Category 4

Skin corrosion : Category 1A

Serious eye damage : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

Product AT USE DILUTION

Not a hazardous substance or mixture.

GHS label elements

Product AS SOLD

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause respiratory irritation.

Precautionary Statements : **Prevention:**
Do not breathe dusts or mists. Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce

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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. Immediately call a POISON CENTER/doctor. 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 in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Product AT USE DILUTION

Precautionary Statements

Prevention:

Wash hands thoroughly after handling.

Response:

Get medical advice/ attention if you feel unwell.

Storage:

Store in accordance with local regulations.

Product AS SOLD

Other hazards

: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Product AS SOLD**

Pure substance/mixture

: Mixture

Chemical name	CAS-No.	Concentration (%)
Sodium Carbonate	497-19-8	30 - 60
disodium metasilicate	6834-92-0	10 - 30
Sodium carbonate peroxide	15630-89-4	10 - 30
Tetrasodium EDTA	64-02-8	1 - 5
sodium isononanoate	84501-72-4	1 - 5

Product AT USE DILUTION

No hazardous ingredients

SECTION 4. FIRST AID MEASURES**Product AS SOLD**

In case of eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact

: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed

: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

If inhaled

: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

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Protection of first-aiders	: If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to physician	: Treat symptomatically.
Most important symptoms and effects, both acute and delayed	: See Section 11 for more detailed information on health effects and symptoms.

Product AT USE DILUTION

In case of eye contact	: Rinse with plenty of water.
In case of skin contact	: Rinse with plenty of water.
If swallowed	: Rinse mouth. Get medical attention if symptoms occur.
If inhaled	: Get medical attention if symptoms occur.

SECTION 5. FIRE-FIGHTING MEASURES**Product AS SOLD**

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: None known.
Specific hazards during fire fighting	: Not flammable or combustible.
Hazardous combustion products	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NO _x) Sulfur oxides
Special protective equipment for fire-fighters	: Use personal protective equipment.
Specific extinguishing methods	: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES**Product AS SOLD**

Personal precautions, protective equipment and emergency procedures	: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	: Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	: Sweep up and shovel into suitable containers for disposal.

Product AT USE DILUTION

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Personal precautions, protective equipment and emergency procedures	: Refer to protective measures listed in sections 7 and 8.
Environmental precautions	: No special environmental precautions required.
Methods and materials for containment and cleaning up	: Stop leak if safe to do so. 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). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Product AS SOLD

Advice on safe handling	: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).
Conditions for safe storage	: Keep out of reach of children. Store in suitable labeled containers.
Storage temperature	: 0 °C to 40 °C

Product AT USE DILUTION

Advice on safe handling	: Wash hands after handling. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE). For personal protection see section 8.
Conditions for safe storage	: Keep out of reach of children. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD**Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

Engineering measures	: Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.
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Personal protective equipment

Eye protection	: Wear eye protection/ face protection.
Hand protection	: Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin protection	: Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Respiratory protection	: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety

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practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Product AT USE DILUTION

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

Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: granular	liquid
Color	: opaque, White with colored particles	light blue
Odor	: not significant	not significant
pH	: 11.0 - 12.5, (1 %)	10.5 - 11.0
Flash point	: Not applicable	
Odor Threshold	: No data available	
Melting point/freezing point	: No data available	
Initial boiling point and boiling range	: > 100 °C	
Evaporation rate	: No data available	
Flammability (solid, gas)	: Not applicable	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapor pressure	: No data available	
Relative vapor density	: No data available	
Relative density	: 1.05	
Water solubility	: soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/water	: No data available	
Autoignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	

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Oxidizing properties	: yes
Molecular weight	: No data available
VOC	: No data available

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: Acids Bases Metals
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NO _x) Sulfur oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Eye contact, Skin contact

Potential Health Effects

Product AS SOLD

Eyes	: Causes serious eye damage.
Skin	: Causes severe skin burns.
Ingestion	: Harmful if swallowed. Causes digestive tract burns.
Inhalation	: May cause respiratory tract irritation. May cause nose, throat, and lung irritation.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes	: Health injuries are not known or expected under normal use.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Experience with human exposure

Product AS SOLD

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Eye contact	: Redness, Pain, Corrosion
Skin contact	: Redness, Pain, Corrosion
Ingestion	: Corrosion, Abdominal pain
Inhalation	: Respiratory irritation, Cough

Product AT USE DILUTION

Eye contact	: No symptoms known or expected.
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Toxicity**Product AS SOLD****Product**

Acute oral toxicity	: Acute toxicity estimate : 1,127 mg/kg
Acute inhalation toxicity	: No data available
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg/kg
Skin corrosion/irritation	: No data available
Serious eye damage/eye irritation	: No data available
Respiratory or skin sensitization	: No data available
Carcinogenicity	: No data available
Reproductive effects	: No data available
Germ cell mutagenicity	: No data available
Teratogenicity	: No data available
STOT-single exposure	: No data available
STOT-repeated exposure	: No data available
Aspiration toxicity	: No data available

SECTION 12. ECOLOGICAL INFORMATION**Product AS SOLD****Ecotoxicity**

Environmental Effects	: Harmful to aquatic life.
-----------------------	----------------------------

Product

Toxicity to fish	: No data available
Toxicity to daphnia and other aquatic invertebrates	: No data available
Toxicity to algae	: No data available

Components

Toxicity to fish	: Sodium Carbonate
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96 h LC50 *Lepomis macrochirus* (Bluegill sunfish): 300 mg/l

disodium metasilicate
96 h LC50 Fish: 210 mg/l

Tetrasodium EDTA
96 h LC50 Fish: 121 mg/l

sodium isononanoate
96 h LC50 Fish: 160 mg/l

Components

Toxicity to daphnia and other aquatic invertebrates : Sodium Carbonate
48 h EC50 *Ceriodaphnia* (water flea): 213.5 mg/l

Sodium carbonate peroxide
48 h EC50 *Daphnia*: 4.9 mg/l

Persistence and degradability**Product AS SOLD**

Poorly biodegradable

Product AT USE DILUTION

Poorly biodegradable

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Product AS SOLD**

Disposal methods : Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

Product AT USE DILUTION

Disposal methods : Diluted product can be flushed to sanitary sewer.

Disposal considerations : Dispose of in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION**Product AS SOLD**

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The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

UN number : 3253
 Description of the goods : Disodium trioxosilicate
 Class : 8
 Packing group : III
 Environmentally hazardous : no

Sea transport (IMDG/IMO)

UN number : 3253
 Description of the goods : DISODIUM TRIOXOSILICATE
 Class : 8
 Packing group : III
 Marine pollutant : no

SECTION 15. REGULATORY INFORMATION**Product AS SOLD****EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
 Skin corrosion or irritation
 Serious eye damage or eye irritation
 Specific target organ toxicity (single or repeated exposure)

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

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.

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

California Cleaning Product Right to Know Act of 2017 (SB 258)

This regulation applies to this product.

Chemical Name	CAS-No.	Function	List(s)
Sodium Carbonate	497-19-8	Cleaning Agent	Not Applicable
disodium metasilicate	6834-92-0	Film Former	Not Applicable
Sodium carbonate peroxide	15630-89-4	Cleaning Agent	Not Applicable
sodium sulfate	7757-82-6	Processing Aid	20
Tetrasodium EDTA	64-02-8	Cleaning Agent	Not Applicable
hexanoic acid, 3,5,5-trimethyl-	3302-10-1	Processing Aid	Not Applicable
Pigment	Withheld	Dye	Not Applicable

*refer to ecolab.com/sds for electronic links to designated lists

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The ingredients of this product are reported in the following inventories:

United States TSCA Inventory :

All substances listed as active on the TSCA inventory

Canadian Domestic Substances List (DSL) :

This product contains one or several components listed in the Canadian NDSL.

Australia Inventory of Chemical Substances (AICS) :

not determined

New Zealand. Inventory of Chemical Substances :

not determined

Japan. ENCS - Existing and New Chemical Substances Inventory :

On the inventory, or in compliance with the inventory

Korea. Korean Existing Chemicals Inventory (KECI) :

On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :

not determined

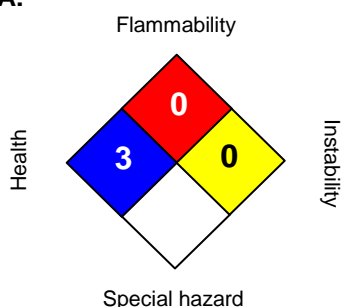
China. Inventory of Existing Chemical Substances in China (IECSC) :

On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI) :

not determined

SECTION 16. OTHER INFORMATION

Product AS SOLD**NFPA:****HMIS III:**

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

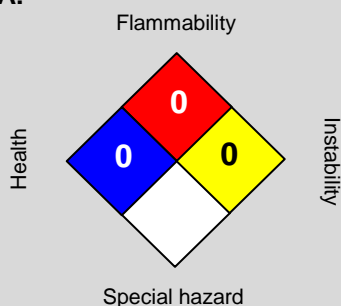
0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Product AT USE DILUTION

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NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Issuing date : 12/05/2019
 Version : 1.4
 Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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.

FORMULA 815 MX SC

Product number: 192017



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1. Identification

Product identifier	FORMULA 815 MX SC		
Other means of identification			
Product number	192017		
Recommended use	Cleaner/Degreaser		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/Distributor information			
Manufacturer			
Company name	Brulin		
Address	P.O. Box 270 Indianapolis, IN 46206 United States		
Telephone	Phone:	1.317.923.3211	
	Fax:	1.317.925.4596	
Website	www.brulin.com		
E-mail			
Emergency phone number	CHEMTREC	1.800.424.9300	
	CHEMTREC (International)	1.703.527.3887	

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Not classified
	Acute toxicity, dermal	Not classified
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
OSHA defined hazards	Not classified.	

Label elements



Signal word	Warning
Hazard statement	Causes skin irritation. Causes serious eye irritation.
Precautionary statement	
Prevention	Wash hands thoroughly after handling. Wear safety glasses with side shields (or goggles). Wear protective gloves.
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. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Storage	Store away from incompatible materials. Keep out of the reach of children.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None known.

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3. Composition/information on ingredients**Mixtures**

Chemical name	Common name and synonyms	CAS number	% by weight
Non-Ionic Surfactant*		Proprietary*	5 - <10
N,N-dimethyl 9-decenamide		1356964-77-6	1 - <5
Sodium metasilicate		6834-92-0	1 - <5

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	Rinse mouth. 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. 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	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
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. 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. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. 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 mix with other chemicals. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. 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). Keep out of the reach of children.

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8. Exposure controls/personal protection

Occupational exposure limits This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.

Appropriate engineering controls Provide eyewash station. Use general ventilation.

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.

Respiratory protection No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment.

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
Physical state	Liquid.
Color	blue green
Odor	citrus/floral fragrance added
Odor threshold	Not available.
pH	11.7 Concentrate, 10.6 (1:20 dilution)
Melting point/freezing point	32 °F (0 °C)
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	None to Boiling
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
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)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Water-thin
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	1.09
VOC	0.13 % Less Exempts and Water

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10. Stability and reactivity

Reactivity	Reacts 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	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	No adverse effects due to inhalation are expected.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
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. Skin irritation. May cause redness and pain.
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Information on toxicological effects

Product	Species	Test Results
FORMULA 815 MX SC		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg

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

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	
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.

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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	Based on the biodegradability data of the components, this material is expected to be biodegradable.
Bioaccumulative potential	This material does not contain chemicals that have known 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.
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.
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.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not regulated.
CERCLA (Superfund) reportable quantity, lbs	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.

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SARA 311/312 Hazardous chemical No**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.

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)	No
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

*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** 12-02-2022**Revision date** 12-02-2022**Version #** 02**Disclaimer**

Brulin, Inc. 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. 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 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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

1. Product and Company Identification

Product Code: 01061
Product Name: Heavy Duty Degreaser
Company Name: Genlabs
5568 Schaefer Ave.
Chino, CA 91710
Phone Number: 1 (254)826-9001
Web site address: www.genlabscorp.com
Email address: sol@genlabscorp.com
Emergency Contact: Chemtrec 1 (800)424-9300
Recommended Use: Hard Surface Cleaner/Degreaser
Intended Use: For sale to, use and storage by service persons only.

2. Hazards Identification

Acute Toxicity: Inhalation, Category 4

Acute Toxicity: Skin, Category 4

Acute Toxicity: Oral, Category 4

Serious Eye Damage/Eye Irritation, Category 2A



GHS Signal Word: **Warning**

GHS Hazard Phrases: H332 - Harmful if inhaled.
H312 - Harmful in contact with skin.
H302 - Harmful if swallowed.
H319 - Can cause serious eye irritation.

GHS Precaution Phrases: P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P362+364 - Take off contaminated clothing and wash it before reuse.
P270 - Do not eat, drink or smoke when using this product.
P102 - Keep out of reach of children. P264 - Wash hands thoroughly after handling.

GHS Response Phrases: P304+340 - If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P302+352 - If on skin (or in hair): Wash with plenty of soap and water.
P301+310 - If swallowed: Immediately call a Poison Center or doctor.
P305+351+338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

GHS Storage and Disposal Phrases: P411+235 - Store in cool dry place at room temperature away from direct sunlight.
P501 - Dispose of contents and container according to the local, city, state and federal regulations.

Potential Health Effects (Acute and Chronic): Prolonged or repeated skin contact may cause defatting and dermatitis.

Inhalation: May be harmful if inhaled. Inhalation of a mist of this material may cause respiratory tract irritation.

Skin Contact: Causes skin irritation. May be harmful if absorbed through the skin. Causes skin burns.

Eye Contact: Causes eye irritation. May cause transient corneal injury. Causes eye burns. Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury.

Ingestion: May cause kidney damage. Harmful if swallowed. Causes burns. Causes gastrointestinal

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irritation with nausea, vomiting and diarrhea.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
112-34-5	Diethylene glycol monobutyl ether	Proprietary	
6834-92-0	Silicic acid (H ₂ SiO ₃), Disodium salt	Proprietary	
68439-46-3	Alcohol ethoxylate	Proprietary	
67-63-0	Isopropyl alcohol	Proprietary	

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Inhalation: Remove from exposure and move to fresh air immediately. Get medical aid. If breathed in, move person into fresh air.

In Case of Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Continue rinsing eyes during transport to hospital.

In Case of Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Signs and Symptoms Of Exposure: Burning sensation, Cough, Wheezing, Laryngitis, Shortness of breath.

Note to Physician: Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt: NE

Explosive Limits: LEL: N/A N.E. UEL: N/A N.E.

Autoignition Pt: NE

Suitable Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool.

Flammable Properties and Hazards: No data available.

Hazardous Combustion Products: No data available.

6. Accidental Release Measures

Environmental Precautions: Avoid release to the environment.

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

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7. Handling and Storage

Precautions To Be Taken in Handling: Avoid breathing dust, mist, or vapor. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing.

Precautions To Be Taken in Storing: Store in a cool, dry, well-ventilated area away from incompatible substances.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
112-34-5	Diethylene glycol monobutyl ether	No data.	No data.	No data.
6834-92-0	Silicic acid (H ₂ SiO ₃), Disodium salt	No data.	No data.	No data.
68439-46-3	Alcohol ethoxylate	No data.	No data.	No data.
67-63-0	Isopropyl alcohol	PEL: 400 ppm	TLV: 200 ppm STEL: 400 ppm	No data.

Respiratory Equipment (Specify Type): Always use a NIOSH approved respirator when necessary.

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Face shield and safety glasses.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Blue color liquid with mild or no fragrance.

pH: ~ 11.50 - 12.50

Melting Point: NE

Boiling Point: >= 212.00 F

Flash Pt: NE

Evaporation Rate: NE

Flammability (solid, gas): No data available.

Explosive Limits: LEL: N/A N.E. UEL: N/A N.E.

Vapor Pressure (vs. Air or mm Hg): NE

Vapor Density (vs. Air = 1): NE

Specific Gravity (Water = 1): ~ 1.042

Density: ~ 8.69 LB/GA

Bulk density: NE

Solubility in Water: 100%

Saturated Vapor Concentration: NE

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Octanol/Water Partition Coefficient: No data.

VOC / Volume: 0.0000 G/L

Autoignition Pt: NE

Decomposition Temperature: NE

Viscosity: NP

Particle Size: NE

Heat Value: NE

Corrosion Rate: NE

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - None.

Instability:

Incompatibility - Materials To Avoid: Cationic materials, strong oxidizers, strong acidic materials.

Hazardous Decomposition or Byproducts: CO, CO2.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - None.

Hazardous Reactions:

11. Toxicological Information

Toxicological Information: No data available.

Carcinogenicity/Other Information: CAS# 112-34-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Carcinogenicity. 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. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. 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. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. CAS# 67-63-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
112-34-5	Diethylene glycol monobutyl ether	n.a.	n.a.	n.a.	n.a.
6834-92-0	Silicic acid (H ₂ SiO ₃), Disodium salt	n.a.	n.a.	n.a.	n.a.
68439-46-3	Alcohol ethoxylate	n.a.	n.a.	n.a.	n.a.
67-63-0	Isopropyl alcohol	n.a.	3	A4	n.a.

12. Ecological Information

No data available.

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13. Disposal Considerations

Waste Disposal Method: Dispose of contents and container according to the local, city, state and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not regulated as a hazardous material.

DOT Hazard Class:

UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated.

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not Regulated.

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated.

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

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)
112-34-5	Diethylene glycol monobutyl ether	No	No	Yes-Cat. N230
6834-92-0	Silicic acid (H ₂ SiO ₃), Disodium salt	No	No	No
68439-46-3	Alcohol ethoxylate	No	No	No
67-63-0	Isopropyl alcohol	No	No	Yes

This material meets the EPA ☒ Yes ☐ No **Acute (immediate) Health Hazard**

'Hazard Categories' defined ☐ Yes ☒ No **Chronic (delayed) Health Hazard**

for SARA Title III Sections ☐ Yes ☒ No **Fire Hazard**

311/312 as indicated: ☐ Yes ☒ No **Sudden Release of Pressure Hazard**

☐ Yes ☒ No **Reactive Hazard**

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
112-34-5	Diethylene glycol monobutyl ether	CA PROP.65: No; CA TAC, Title 8: Yes - Cat.
6834-92-0	Silicic acid (H ₂ SiO ₃), Disodium salt	CA PROP.65: No; CA TAC, Title 8: No
68439-46-3	Alcohol ethoxylate	CA PROP.65: No; CA TAC, Title 8: No
67-63-0	Isopropyl alcohol	CA PROP.65: No; CA TAC, Title 8: TAC, Title 8

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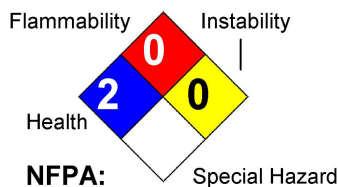
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16. Other Information

Revision Date: 10/26/2020**Hazard Rating System:**

HEALTH		2
FLAMMABILITY		0
PHYSICAL		0
PPE		C

HMIS:**Additional Information About** No data available.**This Product:****Company Policy or****Disclaimer:**

The manufacturer believes the data set forth are accurate and makes no warranty with respects thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion.



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1. Product and Company Identification

Product Code: 201200
Product Name: XS-100 Stripper
Company Name: GORM, Inc.
1501 South Hudson Avenue
Ontario, CA 91761
Phone Number: (909)292-1400
Web site address: www.gorminc.com
Emergency Contact: ChemTel (800)255-3924
Recommended Use: Floor Stripper
Intended Use: For sale to, use and storage by service persons only.

2. Hazards Identification

Acute Toxicity: Inhalation, Category 4
Acute Toxicity: Oral, Category 5
Acute Toxicity: Skin, Category 5
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A
Target Organ Systemic Toxicity (single exposure), Category 3



GHS Signal Word: **Warning**
GHS Hazard Phrases: Harmful if inhaled.
May be harmful if swallowed.
May be harmful in contact with skin.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
GHS Precaution Phrases: Use only outdoors or in a well-ventilated area.
Avoid breathing fumes and spray mist.
Wash hands thoroughly after handling.
Wear protective gloves, protective clothing, eye protection, face protection.
Keep out of reach of children.
GHS Response Phrases: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs, get medical attention immediately.
Take off contaminated clothing.
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 attention immediately.
IF SWALLOWED: Immediately call a POISON CENTER or physician.
GHS Storage and Disposal Phrases: Dispose of contents and container according to the local, city, state and federal regulations.
Store in cool dry place at room temperature away from direct sunlight.



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**Potential Health Effects
(Acute and Chronic):**

Prolonged or repeated skin contact may cause dermatitis.

Effects may be delayed.

Inhalation:

Harmful if inhaled. May cause respiratory tract irritation. May cause narcotic effects in high concentration.

Skin Contact:

Causes skin irritation. Harmful if absorbed through the skin. Substance is rapidly absorbed through the skin. Causes symptoms similar to those of inhalation.

Eye Contact:

Causes eye irritation. Causes redness and pain. Causes eye burns. May cause chemical conjunctivitis and corneal damage.

Ingestion:

Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause severe and permanent damage to the digestive tract.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
111-76-2	Ethanol, 2-Butoxy-	Proprietary
1310-73-2	Sodium hydroxide	Proprietary
75-31-0	Isopropylamine	Proprietary
6834-92-0	Silicic acid (H ₂ SiO ₃), Disodium salt	Proprietary

4. First Aid Measures

**Emergency and First Aid
Procedures:****In Case of Inhalation:**

Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Consult a physician.

In Case of Skin Contact:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Consult a physician.

In Case of Eye Contact:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Continue rinsing eyes during transport to hospital.

In Case of Ingestion:

Get medical aid immediately. Call a poison control center. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

**Signs and Symptoms Of
Exposure:**

Burning sensation, Cough, Wheezing, Laryngitis, Shortness of breath.

Note to Physician:

Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt:

NA

Explosive Limits:

LEL: N/A N.E. UEL: N/A N.E.

Autoignition Pt:

NA

Suitable Extinguishing Media: Use water fog, dry chemical, carbon dioxide or alcohol type foam.**Fire Fighting Instructions:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Flammable Properties and
Hazards:**

No data available.



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6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Methods for cleaning up:
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Pick up and arrange disposal without creating dust.

7. Handling and Storage

Precautions To Be Taken in Handling: Do not breathe dust, mist, or vapor. Avoid ingestion and inhalation. Do not get in eyes, on skin or clothing. Wash hands thoroughly after handling.

Precautions To Be Taken in Storing: Store in a cool, dry, well-ventilated area away from incompatible substances.

Other Precautions: None.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
111-76-2	Ethanol, 2-Butoxy-	PEL: 50 ppm	TLV: 20 ppm	No data.
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.
75-31-0	Isopropylamine	PEL: 5 ppm	TLV: 5 ppm STEL: 10 ppm	No data.
6834-92-0	Silicic acid (H ₂ SiO ₃), Disodium salt	No data.	No data.	No data.

Respiratory Equipment (Specify Type): Always use a NIOSH approved respirator when necessary.

Eye Protection: Safety glasses.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure. Handle with gloves.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Yellow color liquid with solvent odor.

Melting Point: NA

Boiling Point: > 212.00 F

Decomposition Temperature: NA

Autoignition Pt: NA

Flash Pt: NA

Explosive Limits: LEL: N/A N.E. UEL: N/A N.E.

Specific Gravity (Water = 1): 1.070

Density: ~ 8.92 lbs/gal



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Vapor Pressure (vs. Air or mm Hg): NA
Vapor Density (vs. Air = 1): NA
Evaporation Rate: NA
Solubility in Water: 100%
Saturated Vapor Concentration: NA
Viscosity: NP
pH: 12 - 13
Percent Volatile: No data.
VOC / Volume: < 57.0000 G/L

10. Stability and Reactivity

Stability: Unstable [] Stable [X]
Conditions To Avoid - Instability: No data available.
Incompatibility - Materials To Avoid: Strong oxidizing agents, Strong bases, Aluminum, Water, Metals. acids, Aluminum and Soft Metals. gelatin, nitromethane, leather, flammable liquids, organic halogens. iron, Copper, Lead. Tin/tin oxides.
Hazardous Decomposition Or Byproducts: Carbon monoxide, Toxic fumes of sodium oxide, Hazardous decomposition products formed under fire conditions.
Carbon oxides, nitrogen oxides (NOx), formed under fire conditions. Sodium oxides, silicon oxides.
Possibility of Hazardous Reactions: Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions: None.

11. Toxicological Information

Toxicological Information: No data available.
CAS# 111-76-2:
Acute toxicity, LD50, Oral, Rat, 470.0 MG/KG.
Results:
Behavioral: Somnolence (general depressed activity).
Behavioral: Muscle weakness.
- Dow Chemical Company Reports., Dow Chemical USA, Health and Environment Research, Toxicology Research Lab, Midland, MI 48640, Vol/p/yr: MSD-46,
Acute toxicity, LC50, Inhalation, Rat, 450.0 PPM, 4 H.
Results:
Behavioral: Ataxia.
Nutritional and Gross Metabolic: Weight loss or decreased weight gain.
- Toxicology and Applied Pharmacology, Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 68,405, 1983
CAS# 1310-73-2:
Acute toxicity, LD50, Intraperitoneal, Mouse, 40.00 MG/KG.
Results:
Behavioral: Somnolence (general depressed activity).



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- Comptes Rendus Hebdomadaires des Seances, Academie des Sciences., For publisher information, see CRASEV, Paris France, Vol/p/yr: 257,791, 1963

CAS# 6834-92-0:

Acute toxicity, LD50, Oral, Mouse, 770.0 MG/KG.

Results:

Kidney, Ureter, Bladder: Changes in tubules (including acute renal failure, acute tubular necrosis).

Kidney, Ureter, Bladder: Changes in bladder weight.

Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

- Toxicology Letters., Elsevier Science Pub. B.V., POB 211, 1000 AE, Amsterdam 1000 AE Netherlands, Vol/p/yr: 31(Suppl),, 1986

Carcinogenicity/Other Information:

CAS# 111-76-2: ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans.

California: Not listed.

NTP: Not listed.

IARC: Not listed. CAS# 1310-73-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Carcinogenicity.

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.

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.

Carcinogenicity:

NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

No data available.

Results of PBT and vPvB assessment:

CAS# 111-76-2:

LC50, Brine Shrimp (*Artemia salina*), nauplii, 1000000. UG/L, 24 H, Mortality, Water temperature: 24.00 C C.

Results:

Morphological changes.

- Brine Shrimp Bioassay and Seawater BOD of Petrochemicals, Price, K.S., G.T. Waggy, and R.A. Conway, 1974

CAS# 1310-73-2:

LC50, Western Mosquitofish (*Gambusia affinis*), adult(s), 125000. UG/L, 24 H, Mortality, Water temperature: 22.00 C - 24.00 C C, pH: 9.00.

Results:

No loss of equilibrium observed.

- Toxicity to *Gambusia affinis* of Certain Pure Chemicals in Turbid Waters, Wallen, I.E., W.C. Greer, and R. Lasater, 1957

Persistence and Degradability:

No data available.



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13. Disposal Considerations

Waste Disposal Method: No data available.

14. Transport Information

LAND TRANSPORT (US DOT):**DOT Proper Shipping Name:** NOT REGULATED FOR DOMESTIC TRANSPORT.**DOT Hazard Class:****UN/NA Number:**

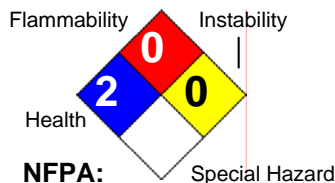
15. Regulatory Information

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
111-76-2	Ethanol, 2-Butoxy-	CA PROP.65: No
1310-73-2	Sodium hydroxide	CA PROP.65: No
75-31-0	Isopropylamine	CA PROP.65: No
6834-92-0	Silicic acid (H ₂ SiO ₃), Disodium salt	CA PROP.65: No

16. Other Information

Hazard Rating System:

HEALTH		2
FLAMMABILITY		0
PHYSICAL		0
PPE		C

HMIS:**Revision Date:** 09/03/2013**Additional Information About** No data available.**This Product:****Company Policy or****Disclaimer:**

The manufacturer believes the data set forth are accurate and makes no warranty with respects thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion.

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1. Product and Company Identification

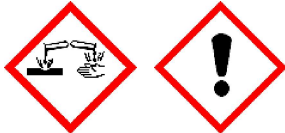
Product Code: 03151
Product Name: Heavy Duty Non-Butyl Degreaser
Company Name: Genlabs
5568 Schaefer Ave.
Chino, CA 91710
Phone Number: 1 (254)826-9001
Web site address: www.genlabscorp.com
Email address: sol@genlabscorp.com
Emergency Contact: Chemtrec 1 (800)424-9300
Recommended Use: Hard Surface Cleaner/Degreaser
Intended Use: For sale to, use and storage by service persons only.

2. Hazards Identification

Skin Corrosion/Irritation, Category 1B

Acute Toxicity: Inhalation, Category 4

Serious Eye Damage/Eye Irritation, Category 2A



GHS Signal Word: Danger

GHS Hazard Phrases: H314 - Causes severe skin burns and eye damage.
H332 - Harmful if inhaled.
H319 - Can cause serious eye irritation.

GHS Precaution Phrases: P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P271 - Use only outdoors or in a well-ventilated area.
P264 - Wash hands thoroughly after handling.
P102 - Keep out of reach of children.

GHS Response Phrases: P305+351+338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+340 - If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P302+352 - If on skin (or in hair): Wash with plenty of soap and water.
P301+312 - If swallowed: Call a Poison Center or doctor if you feel unwell.

GHS Storage and Disposal Phrases: P411+235 - Store in cool dry place at room temperature away from direct sunlight.
P501 - Dispose of contents and container according to the local, city, state and federal regulations.

Inhalation: Causes irritation of the mucous membranes.

Skin Contact: Irritation and burning pain on prolonged skin contact.

Eye Contact: Contact with eyes may cause severe irritation, and possible eye burns. Avoid any eye contact.

Ingestion: Causes burns. May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns. May be harmful if swallowed.

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3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
1310-73-2	Sodium hydroxide	Proprietary	
6834-92-0	Silicic acid (H ₂ SiO ₃), Disodium salt	Proprietary	
78-96-6	1-Amino-2-Propanol	Proprietary	

4. First Aid Measures

Emergency and First Aid

Procedures:

- In Case of Inhalation:** Move victim to fresh air. If breathing becomes difficult, call a physician.
- In Case of Skin Contact:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Consult a physician. Destroy contaminated shoes.
- In Case of Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Do NOT allow victim to rub eyes or keep eyes closed.
- In Case of Ingestion:** If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Consult a physician.
- Signs and Symptoms Of Exposure:** Burning sensation, Cough, Wheezing, Laryngitis, Shortness of breath.
- Note to Physician:** Treat symptomatically and supportively. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

5. Fire Fighting Measures

- Flash Pt:** No data. Method Used: Estimate
- Explosive Limits:** LEL: No data. UEL: No data.
- Autoignition Pt:** No data.
- Suitable Extinguishing Media:** Use dry chemical, carbon dioxide, or alcohol-resistant foam.
- Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
- Flammable Properties and Hazards:** No data available.
- Hazardous Combustion Products:** No data available.

6. Accidental Release Measures

- Steps To Be Taken In Case Material Is Released Or Spilled:** Use proper personal protective equipment as indicated in Section 8. Absorb on sand or vermiculite and place in closed containers for disposal.

7. Handling and Storage

- Precautions To Be Taken in Handling:** Wash thoroughly after handling. Do not get in eyes, on skin or clothing. Do not breathe dust, vapor, mist, or gas. Avoid ingestion and inhalation.
- Precautions To Be Taken in Storing:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.
6834-92-0	Silicic acid (H2SiO3), Disodium salt	No data.	No data.	No data.
78-96-6	1-Amino-2-Propanol	No data.	No data.	No data.

Respiratory Equipment (Specify Type): Always use a NIOSH approved respirator when necessary.

Eye Protection: Face shield and safety glasses.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Blue color liquid with mild or no fragrance.

pH: ~ 11.50 - 12.50

Melting Point: NE

Boiling Point: >= 212.00 F

Flash Pt: No data. Method Used: Estimate

Evaporation Rate: NE

Flammability (solid, gas): No data available.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure (vs. Air or mm Hg): NE

Vapor Density (vs. Air = 1): NE

Specific Gravity (Water = 1): ~ 1.080

Density: ~ 9.01 LB/GA

Bulk density: NE

Solubility in Water: 100%

Saturated Vapor Concentration: NE

Octanol/Water Partition Coefficient: No data.

VOC / Volume: 0.0000 GL

Autoignition Pt: No data.

Decomposition Temperature: NE

Viscosity: NP

Particle Size: NE

Heat Value: NE

Corrosion Rate: NA

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10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - No data available.

Instability:

Incompatibility - Materials To Avoid: Anionic compounds. Strong oxidizers, strong alkali materials, aluminum and soft metals.

Hazardous Decomposition or Byproducts: CO, CO₂.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - No data available.

Hazardous Reactions:

11. Toxicological Information

Toxicological Information: No data available.

Carcinogenicity/Other Information: CAS# 1310-73-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Carcinogenicity. 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. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. 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. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. CAS# 78-96-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
1310-73-2	Sodium hydroxide	n.a.	n.a.	n.a.	n.a.
6834-92-0	Silicic acid (H ₂ SiO ₃), Disodium salt	n.a.	n.a.	n.a.	n.a.
78-96-6	1-Amino-2-Propanol	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method: Dispose of contents and container according to the local, city, state and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: UN3266, Corrosive Liquid, Basic, Inorganic, n.o.s., (Contains Sodium Hydroxide), 8, II.

DOT Hazard Class: 8 CORROSIVE

UN/NA Number: UN3266

Packing Group: II



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15. Regulatory Information

This material meets the EPA ☒ Yes ☐ No Acute (immediate) Health Hazard
'Hazard Categories' defined ☐ Yes ☒ No Chronic (delayed) Health Hazard
for SARA Title III Sections ☐ Yes ☒ No Fire Hazard
311/312 as indicated: ☐ Yes ☒ No Sudden Release of Pressure Hazard
☐ Yes ☒ No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
1310-73-2	Sodium hydroxide	CA PROP.65: No; CA TAC, Title 8: TAC, Title 8
6834-92-0	Silicic acid (H ₂ SiO ₃), Disodium salt	CA PROP.65: No; CA TAC, Title 8: No
78-96-6	1-Amino-2-Propanol	CA PROP.65: No; CA TAC, Title 8: No

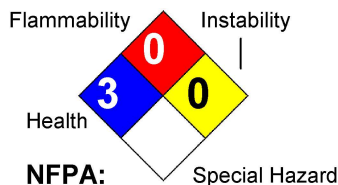
16. Other Information

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Hazard Rating System:

HEALTH		3
FLAMMABILITY		0
PHYSICAL		0
PPE		B

HMIS:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

The manufacturer believes the data set forth are accurate and makes no warranty with respects thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion.



SAFETY DATA SHEET

LIME-A-WAY

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : LIME-A-WAY

Other means of identification : Not applicable.

Recommended use : Delimer

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : Product is sold ready to use.

Company : ECOLAB PTY LTD
2 Drake Avenue
Macquarie Park, NSW Australia 2113
1 800 022 002

Emergency telephone number : 1800 205 506, +64 7 958 2372

Issuing date : 20.11.2020

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Corrosive to metals : Category 1

Skin corrosion/irritation : Category 1B

Serious eye damage/eye irritation : Category 1

GHS Label element

Hazard pictograms :



Signal Word : Danger

Hazard Statements : May be corrosive to metals.
Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**
Keep only in original container. Do not breathe dusts or mists. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. Absorb spillage to prevent material damage. 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 or doctor/ physician. Wash contaminated clothing before reuse.

Storage:
Store locked up. Store in a corrosion resistant container with a resistant inner liner.

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LIME-A-WAY

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards : Do not mix with bleach or other chlorinated products – will cause chlorine gas.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration: (%)
Phosphoric acid	7664-38-2	10 - 30
citric acid	77-92-9	5 - 10
oxirane, methyl-, polymer with oxirane	9003-11-6	1 - 5

Section: 4. FIRST AID MEASURES

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

If swallowed : Contact the Poison's Information Centre (eg Australia 13 1126; New Zealand 0800 764 766).

Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : Treat symptomatically.

Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : None known.

Specific hazards during firefighting : Exposure to decomposition products may be a hazard to health.

Hazardous combustion products : Decomposition products may include the following materials:
Carbon oxides
Oxides of phosphorus

SAFETY DATA SHEET

LIME-A-WAY

Special protective equipment for firefighters : Use personal protective equipment.

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Hazchem Code : 2R

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. 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). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Section: 7. HANDLING AND STORAGE

Advice on safe handling : Do not ingest. Do not breathe dust/fume/gas/mist/vapours/spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not get in eyes, on skin, or on clothing. Do not mix with bleach or other chlorinated products – will cause chlorine gas. In case of mechanical malfunction, or if in contact with unknown dilution of product, wear full Personal Protective Equipment (PPE).

Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : 0 °C to 45 °C

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Phosphoric acid	7664-38-2	TWA	1 mg/m ³	AU OEL
		STEL	3 mg/m ³	AU OEL

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles
Face-shield

SAFETY DATA SHEET

LIME-A-WAY

Hand protection	: Wear the following personal protective equipment: Standard glove type. Neoprene gloves PVC Natural rubber Nitrile Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin protection	: Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Respiratory protection	: Refer to AS/NZS 1715 and AS/NZS 1716 for selection, use and maintenance of respiratory protective equipment as applicable. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: clear, green
Odour	: slight
pH	: 2.0, (100 %)
Flash point	: Not applicable., Does not sustain combustion.
Odour Threshold	: no data available
Melting point/freezing point	: no data available
Initial boiling point and boiling range	: > 100 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: Not applicable.
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: 1.2 - 1.23
Water solubility	: soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available

SAFETY DATA SHEET**LIME-A-WAY**

Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: no data available
Molecular weight	: no data available
VOC	: no data available

Section: 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Conditions to avoid	: None known.
Incompatible materials	: Bases Metals Organic materials
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Inhalation, Eye contact, Skin contact
--	---

Potential Health Effects

Eyes	: Causes serious eye damage.
Skin	: Causes severe skin burns.
Ingestion	: Causes digestive tract burns.
Inhalation	: May cause nose, throat, and lung irritation.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact	: Redness, Pain, Corrosion
Skin contact	: Redness, Pain, Corrosion
Ingestion	: Corrosion, Abdominal pain
Inhalation	: Respiratory irritation, Cough

Toxicity**Product**

SAFETY DATA SHEET**LIME-A-WAY**

Acute oral toxicity	: no data available
Acute inhalation toxicity	: no data available
Acute dermal toxicity	: no data available
Skin corrosion/irritation	: no data available
Serious eye damage/eye irritation	: no data available
Respiratory or skin sensitization	: no data available
Carcinogenicity	: no data available
Reproductive effects	: no data available
Germ cell mutagenicity	: no data available
Teratogenicity	: no data available
STOT - single exposure	: no data available
STOT - repeated exposure	: no data available
Aspiration toxicity	: no data available

Components

Acute oral toxicity	: Phosphoric acid LD50 rat: > 2,600 mg/kg
	citric acid LD50 rat: 11,700 mg/kg

Components

Acute inhalation toxicity	: Phosphoric acid 4 h LC50 rat: 0.962 mg/l Test atmosphere: dust/mist
	oxirane, methyl-, polymer with oxirane 4 h LD50 rat: 1 mg/l Test atmosphere: dust/mist

Components

Acute dermal toxicity	: Phosphoric acid LD50 rabbit: > 2,000 mg/kg
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Section: 12. ECOLOGICAL INFORMATION**Ecotoxicity**

Environmental Effects	: This product has no known ecotoxicological effects.
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Product

Toxicity to fish	: no data available
Toxicity to daphnia and other aquatic invertebrates	: no data available
Toxicity to algae	: no data available

Components

Toxicity to fish	: citric acid 96 h LC50 Fish: > 100 mg/l
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SAFETY DATA SHEET**LIME-A-WAY**

oxirane, methyl-, polymer with oxirane
96 h LC50 Fish: > 100 mg/l

Components

Toxicity to daphnia and other aquatic invertebrates : Phosphoric acid
48 h EC50 Daphnia magna (Water flea): > 100 mg/l

Components

Toxicity to algae : Phosphoric acid
72 h EC50 Desmodesmus subspicatus (green algae): > 100 mg/l

Persistence and degradability

Readily biodegradable.

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

Section: 13. DISPOSAL CONSIDERATIONS

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (ADG)

UN number : 1805
Description of the goods : PHOSPHORIC ACID, SOLUTION
Class : 8
Packing group : III
Hazchem Code : 2R

Sea transport (IMDG/IMO)

UN number : 1805
Description of the goods : PHOSPHORIC ACID SOLUTION
Class : 8
Packing group : III
Marine pollutant : No

Section: 15. REGULATORY INFORMATION

SAFETY DATA SHEET**LIME-A-WAY****National regulatory information**

Standard for the Uniform : Schedule 5
Scheduling of Medicines and
Poisons

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

United States TSCA Inventory :

All substances listed as active on the TSCA inventory

Canadian Domestic Substances List (DSL) :

All components of this product are on the Canadian DSL.

Australia. Australian Industrial Chemicals Introduction Scheme (AICIS) :

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand :

not determined

Japan. ENCS - Existing and New Chemical Substances Inventory :

On the inventory, or in compliance with the inventory

Korea. Korean Existing Chemicals Inventory (KECI) :

On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :

On the inventory, or in compliance with the inventory

China Inventory of Existing Chemical Substances :

On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory :

On the inventory, or in compliance with the inventory

Section: 16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet
Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
IARC: (International Agency for Research on Cancer)
US. National Toxicology Program (NTP) Report on Carcinogens
ECHA List of Publishable Substances Registered
EU HPVCs (High Production Volume Chemicals)

Issuing date : 20.11.2020
Date of first issue : 09.12.2015
Version : 1.2
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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.

MAXIMA 256

Product number: 161047 / 192003 / 193023 / 192023 / 161048 / 161042

**SAFETY DATA SHEET****1. Identification**

Product identifier MAXIMA 256

Other means of identification

Product number 161047 / 192003 / 193023 / 192023 / 161048 / 161042

Recommended use Disinfectant Cleaner

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Brulin & Company, Inc.

Address P.O. Box 270
Indianapolis, IN 46206
United States

Telephone Phone: 317-923-3211
Fax: 317-925-4596

Website www.Brulin.com

Emergency phone number CHEMTREC 1-800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards

Acute toxicity, oral	Not classified
Acute toxicity, dermal	Not classified
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

OSHA defined hazards Not classified.

Label elements

Signal word Danger

Hazard statement Causes serious eye damage. Causes skin irritation.

Prevention Wear safety glasses with side shields (or goggles). Wash hands thoroughly after handling. Wear protective gloves.

Response 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 ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage Store away from incompatible materials. Keep out of the reach of children.

Disposal Dispose of waste and residues in accordance with local authority requirements.

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

Supplemental information None known.

3. Composition/information on ingredients**Mixtures**

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Product number: 161047 / 192003 / 193023 / 1920

Chemical name	CAS number	% by weight
ALKYL (C 12-16) DIMETHYLBENZYL AMMONIUM CHLORIDE	68424-85-1	5 - <10
Didecyldimethylammonium chloride	7173-51-5	1 - <5
Dioctyl Dimethyl Ammonium Chloride	5538-94-3	1 - <5
Ethyl Hydroxide	64-17-5	1 - <5
Non-Ionic Surfactant	Proprietary	1 - <5

4. First-aid measures

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.
Skin contact	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Notes to physician	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
Most important symptoms/effects, acute and delayed	Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.
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	None known.
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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Ensure adequate ventilation. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	<p>Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.</p>

7. Handling and storage

Precautions for safe handling	Wear appropriate personal protective equipment. Do not get this material in contact with eyes. Avoid contact with skin. Avoid contact with clothing. Avoid prolonged exposure. Provide adequate ventilation. Do not mix with other chemicals. 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). Keep out of the reach of children.

MAXIMA 256

Product number: 161047 / 192003 / 193023 / 1920

8. Exposure controls/personal protection**Occupational exposure limits****US. ACGIH Threshold Limit Values**

Components	Type	Value
Ethyl Hydroxide (CAS 64-17-5)	STEL	1000 ppm

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

Components	Type	Value
Ethyl Hydroxide (CAS 64-17-5)	PEL	1900 mg/m3
		1000 ppm

Appropriate engineering controls Eye wash facilities and emergency shower must be available when handling this product. Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear protective gloves.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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
Form	Liquid.
Color	Colorless or Clear green
Odor	mild, characteristic or Pleasant Sassafrass or Floral spring
Odor threshold	Not available.
pH	1.3
Melting point/freezing point	Not available.
Boiling point	212 °F (100 °C)
Flash point	None to boiling.
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.
Vapor pressure	Not available.
Vapor density	Not available.
Solubility(ies)	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.

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Product number: 161047 / 192003 / 193023 / 1920

Viscosity	Water-thin
Specific gravity	1.02
VOC (Weight %)	2.1 %

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. Do not mix with other chemicals. Reacts violently with strong alkaline substances.
Incompatible materials	Incompatible with bases. This product may react with reducing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information**Toxicological data**

Product	Test Results
MAXIMA 256 (Mixture)	Acute Dermal LD50 Rabbit: > 5000 mg/kg /
	Acute Oral LD50 Rat: 5890 mg/kg /

Information on likely routes of exposure

Eye contact	Causes serious eye damage.
Skin contact	Causes skin irritation.
Ingestion	Expected to be a low ingestion hazard. May cause discomfort if swallowed.
Inhalation	No adverse effects due to inhalation are expected.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Skin corrosion/irritation**Irritation Corrosion - Skin**

MAXIMA 256

4.496 Primary Skin: Draize, moderately irritating
Species: Rabbit**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.
Chronic effects	Prolonged inhalation may be harmful.
Toxicological information	Occupational exposure to the substance or mixture may cause adverse effects.

12. Ecological information

Ecotoxicity	Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	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.
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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	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 emptied.

14. Transport information**DOT**

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

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.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

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

Not listed.

CERCLA (Superfund) reportable quantity

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

No

SARA 311/312 Hazardous chemical

No

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**US. Massachusetts RTK - Substance List**

Ethyl Hydroxide (CAS 64-17-5)

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

Not regulated.

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US. Pennsylvania RTK - Hazardous Substances

Ethyl Hydroxide (CAS 64-17-5)

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)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
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

*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	07-08-2014
Revision date	09-23-2015
Version #	06
Further information	<p>This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label: DANGER</p> <p>CORROSIVE</p> <p>Causes irreversible eye damage and skin burns.</p>
Disclaimer	<p>The information in the sheet was written based on the best knowledge and experience currently available. 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 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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.</p>

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: MORGAN-129-BULK
Product Name: MG 500
Company Name: Morgan-Gallacher, Inc.
8707 Millergrove Drive
Santa Fe Springs, CA 90670
Phone Number: +1 (562)695-1232
Emergency Contact: CHEMTREC +1 (800)424-9300

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 3

Serious Eye Damage/Eye Irritation, Category 2A

Acute Toxicity: Oral, Category 4



GHS Signal Word: **Warning**

GHS Hazard Phrases: H302 - Harmful if swallowed.

GHS Precaution Phrases:

H320 - Causes eye irritation. H315 - Causes skin irritation.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P262 - Do not get in eyes, on skin, or on clothing.

P102 - Keep out of reach of children.

P103 - Read label before use.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases:

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P315 - Get immediate medical advice/attention.

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with plenty of water for 15 minutes. P332+313 - If skin irritation occurs, get medical advice/attention.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342 - If experiencing respiratory symptoms:

P313 - Get medical advice/attention.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P315 - Get immediate medical advice/attention.

GHS Storage and Disposal Phrases:

P501 - Dispose of contents/container in accordance to local, state and federal regulations.

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

Potential Health Effects (Acute and Chronic):

Inhalation:

May cause irritation to the mucous membranes of the upper respiratory tract.

Skin Contact:

May cause skin irritation. Possible sensitizer. Repeated or prolonged exposure may cause drying of the skin.

Eye Contact:

May cause serious eye damage. May cause eye irritation. May cause redness.

Ingestion:

May be harmful if swallowed. May cause gastrointestinal irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
6834-92-0	Sodium metasilicate	<15.0 %
7601-54-9	Sodium phosphate, Tribasic	< 5.0 %
111-76-2	Glycol Ether EB	<10.0 %
NA	Surfactant	<10.0 %

4. FIRST AID MEASURES

Emergency and First Aid

Procedures:

In Case of Inhalation:	Remove from exposure and move to fresh air immediately.
In Case of Skin Contact:	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.
In Case of Eye Contact:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
In Case of Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. If victim is conscious and alert, give 2-4 cupfuls of water. Get medical attention immediately.
Note to Physician:	Show this safety data sheet to the doctor in attendance. Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash Pt:	NA
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	NA
Suitable Extinguishing Media:	Use water fog, dry chemical, carbon dioxide, or alcohol-resistant foam.
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
Flammable Properties and Hazards:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8.
Environmental Precautions:	Observe all federal, state, and local environmental regulations.
Steps To Be Taken In Case Material Is Released Or Spilled:	Contain spilled material if possible.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.
Precautions To Be Taken in Storing:	Store in a cool, dry, well-ventilated area away from incompatible substances. Store in a tightly closed container. Keep container closed when not in use. Protect containers against damage.
Other Precautions:	Handle in accordance with good industrial hygiene and safety practice. Keep out of

reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
6834-92-0	Sodium metasilicate	No data.	No data.	No data.
7601-54-9	Sodium phosphate, Tribasic	No data.	No data.	No data.
111-76-2	Glycol Ether EB	PEL: 50 ppm	TLV: 20 ppm	No data.
NA	Surfactant	No data.	No data.	No data.

Respiratory Equipment (Specify Type): No special respiratory protection equipment is required with normal use.

Eye Protection: Safety glasses.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.

Other Protective Clothing: No data available.

Engineering Controls (Ventilation etc.): No data available.

Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Appearance: Blue. Liquid. Transparent.

Melting Point: NA

Boiling Point: > 212.00 F / 760 mm Hg.

Decomposition Temperature: NA

Autoignition Pt: NA

Flash Pt: NA

Explosive Limits: LEL: No data. UEL: No data.

Specific Gravity (Water = 1): 1.08 - 1.09

Density: 9.04

Vapor Pressure (vs. Air or mm Hg): NA

Vapor Density (vs. Air = 1): NA

Evaporation Rate: NA

Solubility in Water: 100%

Saturated Vapor Concentration: NA

Viscosity: NA

pH: > 10.00

Percent Volatile: No data.

10. STABILITY AND REACTIVITY

Reactivity:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	High temperatures, ignition sources.
Incompatibility - Materials To Avoid:	None known.
Hazardous Decomposition or Byproducts:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information:	<p>Epidemiology: No data available. Teratogenicity: No data available. Reproductive Effects: No data available. Mutagenicity: No data available. Neurotoxicity: No data available.</p>
Irritation or Corrosion:	<p>CAS# NA: Surfactant: Acute toxicity, LD50, Oral, Rat, 960.0 - 3980. MG/KG. Result: Blood:Tumors. Immunological Including Allergic: Autoimmune (multiple organ involvement). Acute toxicity, LD50, Dermal, Rabbit, 2000. - 2991. MG/KG. Result: Behavioral: Somnolence (general depressed activity). Vascular: BP lowering not characterized in autonomic section. Skin and Appendages: Skin: After topical exposure: Corrosive. Acute toxicity, LD50, Inhalation, Rat, 1.150 MG/L, 4 H. Result: Lungs, Thorax, or Respiration:Other changes. Gastrointestinal:Nausea or vomiting.</p> <p>Skin - rabbit - Severe skin irritation - -24 h.</p> <p>Other Studies: CAS# 111-76-2: Acute toxicity, LC50, Inhalation, Rat, 450.0 ppm, 4 H. Acute toxicity, LD50, Oral, Rat, 470.0 mg/kg Acute toxicity, LD50, Skin, Rabbit, 220.0 mg/kg</p> <p>Other Studies: CAS# 111-76-2: Standard Draize Test, Eyes, Species: Rabbit, 100.0 mg, 24 H</p>
Carcinogenicity/Other Information:	<p>Carcinogenicity. 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.</p> <p>ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.</p> <p>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.</p>

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CAS# 7601-54-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 111-76-2: ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans.

California: Not listed.

NTP: Not listed.

IARC: Not listed.

Carcinogenicity:

NTP? No

IARC Monographs? No

OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information:

Environmental: No information available.

Physical: No information available.

CAS# NA: Surfactant: LC50, Fathead Minnow (*Pimephales promelas*), 3.800 - 6.200 MG/L, 96 H. Result: Affected fish stopped schooling behavior. Affected fish became hyperactive. Fish were overreactive to external stimuli. Affected fish swam at or near surface. No loss of equilibrium observed.
LC50, Water Flea (*Daphnia magna*), 9.300 - 21.40 MG/L, 48 H. Result: Affected fish stopped schooling behavior. Affected fish became hyperactive. Fish were overreactive to external stimuli. Affected fish swam at or near surface. No loss of equilibrium observed.

Results of PBT and vPvB assessment:

Other Studies: CAS# 111-76-2:

LC50, Water Flea (*Daphnia magna*), 1720 mg/l, 24 H, Intoxication

LC50, Common Shrimp, Sand Shrimp (*Crangon crangon*), 775000 ug/l, 96 H, Mortality

LC50, Amphipod (*Chaetogammarus marinus*), young organism(s), 1000 mg/l, 24 H, Mortality

LC50, Carp (*Leuciscus idus* ssp. *melanotus*), 1575 mg/l, 48 H, Mortality

Effective concentration to 0% of test organisms, Blue-Green Algae (*Microcystis aeruginosa*), 156000 ug/L, Population

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.

DOT Hazard Class:

UN/NA Number:

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)
6834-92-0	Sodium metasilicate	No	No	No
7601-54-9	Sodium phosphate, Tribasic	No	Yes 5000 LB	No
111-76-2	Glycol Ether EB	No	No	Yes-Cat. N230
NA	Surfactant	No	No	No

CAS # Hazardous Components (Chemical Name)

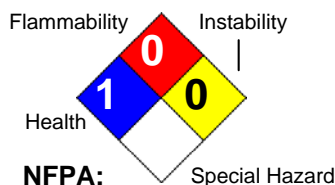
Other US EPA or State Lists

6834-92-0	Sodium metasilicate	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No
7601-54-9	Sodium phosphate, Tribasic	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: Yes - 1724; NY Part 597: Yes; PA HSL: Yes - E
111-76-2	Glycol Ether EB	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: Yes - 0275; NY Part 597: No; PA HSL: Yes - 1
NA	Surfactant	TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; NY Part 597: No; PA HSL: No

16. OTHER INFORMATION

Revision Date: 10/01/2014

Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

While Morgan-Gallacher believes the statements set forth herein are accurate as of the date hereof, Morgan-Gallacher makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.



NDC 128

Neutral Disinfectant Cleaner

Product Information

- EPA Registered - Cleaner Disinfectant
- Virucide, Bactericide, Fungicide & Mildewcide

Disinfectant/Cleaner/Sanitizer

Desinfectante / Limpiador / Sanitizante

DESCRIPTION:

A multi-purpose, neutral pH, germicidal detergent and deodorant effective in hard water up to 200 ppm (calculated as CaCO₃) in the presence of a moderate amount of soil (5% organic serum) according to the AOAC Use-dilution Test. Disinfects, cleans, and deodorizes in one labor saving step. For use in hospitals and nursing homes as a disinfectant. Use in schools, colleges, veterinary clinics, animal life science laboratories, pet shops, airports, and kennels. Disinfects, cleans and deodorizes the following hard, nonporous inanimate surfaces: floors, walls, (non-medical) metal surfaces, (non-medical) stainless steel surfaces, glazed porcelain, plastic surfaces (such as polypropylene, polystyrene, acrylic, etc.). This product kills Pandemic 2009 H1N1 influenza A virus (formerly called swine flu). Effective against Influenza A virus associated with the flu.

DIRECTIONS:

Dilute product 1:128 or 1 ounces per gallon of water (660 ppm quat). Use a mop, brush, sponge or coarse sprayer. Apply to surface and let stand for a few minutes. Rinse with clean water.

Efficacy - see efficacy sheet for additional claims

Bacteria	Contact Time	Viruses	Contact Time
<i>Pseudomonas aeruginosa</i> ¹	10 min	Human coronavirus	1 min
<i>Staphylococcus aureus</i> ¹	10 min	Influenza A Virus/Hong Kong	2 min
<i>Salmonella enterica</i>	10 min	HIV-1 (AIDS virus)	4 min
<i>Acinetobacter baumannii</i>	10 min	Adenovirus Type 7 - at 4 oz per gallon	10 min
<i>Acinetobacter calcoaceticus</i>	10 min	* See Note	
<i>Bordetella bronchiseptica</i>	10 min	Hepatitis B Virus (HBV)	10 min
<i>Chlamydia psittaci</i>	10 min	Hepatitis C Virus (HCV)	10 min
<i>Staphylococcus aureus</i> - Community	10 min	Herpes Simplex Virus Type 1	10 min
Associated Methicillin - Resistant -		Herpes Simplex Virus Type 2	10 min
CA-MRSA (NRS384) (USA300)		Rotavirus (WA)	10 min
<i>Staphylococcus aureus</i> - Community	10 min	Respiratory Syncytial Virus (RSV)	10 min
Associated Methicillin - Resistant -		Rubella Virus	10 min
CA-MRSA (NRS123) (USA400)		SARS Associated Coronavirus (SARS)	10 min
<i>Enterobacter aerogenes</i>	10 min	Vaccinia virus	10 min
<i>Enterobacter cloacae</i>	10 min		
<i>Enterococcus faecalis</i>	10 min		
-Vancomycin Resistant (VRE)	10 min		
<i>Escherichia coli</i> ¹	10 min		
<i>Fusobacterium necrophorum</i>	10 min		
<i>Klebsiella pneumoniae</i> ¹	10 min		
<i>Legionella pneumophila</i>	10 min		
<i>Listeria monocytogenes</i>	10 min		
<i>Pasteurella multocida</i>	10 min		
<i>Proteus mirabilis</i>	10 min		
<i>Proteus vulgaris</i>	10 min		
<i>Salmonella enteritidis</i>	10 min		
<i>Salmonella typhi</i>	10 min		
<i>Serratia marcescens</i>	10 min		
<i>Shigella flexneri</i>	10 min		
<i>Shigella sonnei</i>	10 min		
<i>Staphylococcus aureus</i>	10 min		
-Methicillin resistant (MRSA)			
<i>Staphylococcus aureus</i>	10 min		
-Vancomycin Intermediate			
Resistant (VISA)			
<i>Staphylococcus epidermidis</i> ²	10 min		
<i>Streptococcus faecalis</i> ¹	10 min		
<i>Streptococcus pyogenes</i> (Strep)	10 min		

Animal Viruses	Contact Time
Avian Influenza Virus (H5N1)	10 min
Avian polyomavirus	10 min
Canine distemper virus	10 min
Feline leukemia virus	10 min
Feline picornavirus	10 min
Infectious bovine rhinotracheitis virus	10 min
Infectious bronchitis virus (Avian IBV)	10 min
Newcastle Disease Virus	10 min
Pseudorabies virus	10 min
Rabies virus	10 min
Transmissible Gastroenteritis virus (TGE)	10 min

1 ATCC & antibiotic-resistant strain
2 antibiotic-resistant strain only



1 Gallon

145704

TECHNICAL SPECS:

pH	7.2 - 8.2
Fragrance	Lemon
Color	Blue
Specific Gravity	1.0
VOC Content	<7 g/l
Foam Characteristic	Moderate
Solubility in Water	Complete
See SDS for complete product information.	

Note: COVID-19 is caused by SARS-CoV-2, a novel coronavirus. NDC 128 kills similar viruses and therefore can be used against SARS-CoV-2 when used in accordance with the directions for use against Adenovirus Type 7 on hard, non-porous surfaces. Refer to the CDC website at <https://www.cdc.gov/coronavirus/2019-ncov/index.html> for additional information.

Disclaimer This information is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Maintex Inc. assumes no responsibility for personal injury or property damage to the Vendee, Users or Third Parties caused by the material. Such Vendees or Users assume all risks associated with the use of this material. The contents of this document are subject to change without notice.

EPA Registration Number: 47371-130-6885.
Main Registrant Product Name: FORMULATION HWS-128 (EPA Reg. No. 47371-130)
from H&S Chemicals Division of LONZA, LLC.

MAINTEX www.maintex.com

13300 E. Nelson Avenue
City of Industry, CA 91746
(800) 446-1888

13575 Gregg Street
Poway, CA 92064
(800) 261-4456

Safety Data Sheet

1457

1 Material and Supplier Identification

Product Name: **NDC 128**

Description: Disinfectant/Cleaner/Sanitizer

Recommended use of the chemical and restrictions: Use only for the purpose on product label. This product is not intended to be used without prior dilution if specified on product label.

Supplier's Information: **Maintex, Inc.**
13300 E. Nelson Ave
City of Industry, CA 91746
800-446-1888 (Customer Service)

Emergency Telephone: (800) 255-3924 USA (813)248-0585 International (Chemtel 24 hrs)

2 Hazards Identification

Classification of Mixture: Serious Eye Damage: Category 1
Skin Corrosion: Category 1

Pictogram



Signal Word: DANGER

Hazard Statements: Causes severe skin burns and eye damage.

Precautionary Statements

General: KEEP OUT OF REACH OF CHILDREN. Read label before use.

Prevention: Do not breathe vapors. Wash hands thoroughly after handling. Wear protective gloves and eye protection.

Response: IF ON SKIN: Take off contaminated clothing and wash before reuse. Rinse skin with water. If skin irritation persists: Get medical attention.
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 attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. If problem persists, call a Poison Center or get medical attention.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical attention immediately.

3 Composition/Information on Ingredients

Hazardous Ingredients

	<u>CAS Number</u>	<u>Concentration Range %</u>
Didecyl dimethyl ammonium chloride	7173-51-5	4.82-5.32
Alkyl dimethyl benzyl ammonium chloride	68424-85-1	3.21-3.55
Ethyl Alcohol	64-17-5	1.0-1.5

4 First Aid Measures

Eye Contact:	Flush eyes with water for 15 minutes. Remove contact lenses if any.
Skin Contact:	Contact with concentrate may be an irritant to sensitive skin. If spilt in large areas of skin, rinse immediately with water and remove clothing. Wash skin thoroughly with soap and water.
Inhalation	If discomfort is experienced after prolonged exposure to vapors, move person to fresh air. Get medical attention if irritation persists.
Ingestion:	Get medical attention immediately. Rinse mouth with water. Do NOT induce vomiting. Drink glass of water to dilute product.

5 Firefighting Measures

Suitable Extinguishing Media:	Water spray, normal foam, dry agent (carbon dioxide, dry chemical powder.)
Specific Hazards arising from the Chemical:	In a fire or if heated, a pressure increase will occur and the container may burst. Combustion products may include and are not limited to nitrogen oxides, carbon monoxide, and carbon dioxide.
Specific Protective Equipment and Precautions for Firefighters:	Firefighters should wear NIOSH approved self-contained breathing apparatus and protective clothing. If safe to do so, remove containers from path of fire. If involved in a fire, keep containers cool with water spray.

6 Accidental Release Measures

Emergency Procedures:	Keep area clear of personnel until area has been properly cleaned.
Personal Precautions/ Protective Equipment:	Slippery when spilt. To avoid accidents, clean up immediately and shut off source of leak, if safe to do so. Wear appropriate protective equipment to prevent any contamination of skin, eyes, and personal clothing. Provide sufficient ventilation.
Environmental Precautions:	If contamination of sewers or waterways has occurred, advise local emergency services.
Methods for Containment and Cleaning Up:	Contain spill with absorbent (soil, sand, or other inert material) or spill kit to prevent contamination of sewers or waterways. Neutralization agent is not recommended within building, as toxic vapors may be omitted. Properly dispose of used absorbents in accordance with local, state, and federal regulations.

7 Handling and Storage

Precautions for Safe Handling:	Avoid skin and eye contact, inhalation and ingestion. Wash hands thoroughly after use. Keep out of reach of children.
Conditions for Safe Storage, Including Incompatibilities:	Store in cool, dry place and out of direct sunlight. Store away from source of heat or ignition. Do not mix with other chemicals. Keep container closed when not in use, and check regularly for leaks.
	See Section 10 for incompatible materials.

8 Exposure Controls/Personal Protection

Control Parameters:

<u>Hazardous Ingredients</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH IDLH</u>
Didecyl dimethyl ammonium chloride	N/A	N/A	N/A
Alkyl dimethyl benzyl ammonium chloride	N/A	N/A	N/A
Ethyl Alcohol	TWA 1000 ppm	TWA 1000 ppm	N/A

Appropriate engineering controls:

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

Personal Protection

Eye Protection: Use protective glasses or safety goggles if splashing or spray-back is likely.

Hand Protection: Use protective gloves when used for prolonged periods or if skin sensitive.

Skin Protection: Use apron if splashing or spray-back is likely.

Respiratory Protection: Use in well ventilated areas or local exhaust ventilation when cleaning small spaces.

Hygiene Measures: Always wash hands after handling chemical products, and before smoking, eating, drinking, or using the toilet. Wash contaminated clothing or protective equipment before storage and re-use.

9 Physical and Chemical Properties

Physical State:	Liquid	Specific Gravity:	1.0	Vapour Pressure (mm Hg):	< 17 mm Hg
Color:	Blue	Evaporation Rate:	< 1	Vapour Density:	> 1
Odor:	Lemon	Solubility in Water:	Complete	Freezing Point (°F):	< 32
pH:	7.2-8.2	VOC (g/L):	<7	Boiling Point (°F):	> 212
				Flash Point (°F):	> 200

< means less than

> means greater than

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10 Stability and Reactivity

Reactivity: No specific data

Chemical Stability: Stable

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

Conditions to Avoid: Avoid exposure to heat and light.

Incompatible Materials: Slightly reactive or incompatible with oxidizers (e.g., bleach), strong acids (e.g., hydrochloric acid) and reactive metals (e.g., aluminum).

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxological Information

Symptoms:

Eye Contact:	Adverse symptoms may include the following: irritation, watering, redness
Skin Contact:	Adverse symptoms may include the following: irritation, redness
Inhalation:	Adverse symptoms may include the following: respiratory tract irritation, coughing
Ingestion:	Adverse symptoms may include the following: stomach pains

Acute Toxicity:

Eye Contact:	May cause eye irritation.
Skin Contact:	May cause skin irritation.
Inhalation:	May cause respiratory irritation.
Ingestion:	May cause burns to mouth, throat and stomach.

Toxicity Data:

<u>Hazardous Ingredients</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>
Didecyl dimethyl ammonium chloride	LD50 - Oral	Rat	238 mg/kg
	LD50 - Dermal	Rabbit	3,342 mg/kg
Alkyl dimethyl benzyl ammonium chloride	LD50	Rat	344 mg/kg
	LD 50- Dermal	Rabbit	3,412 mg/kg

Ethyl Alcohol

Chronic Effects: No known significant effects or critical hazards

12 Ecological Information

Ecotoxicity: No data available.

Aquatic Toxicity:

<u>Hazardous Ingredients</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>
Didecyl dimethyl ammonium chloride	No Data Available		
Alkyl dimethyl benzyl ammonium chloride	N/A		
Ethyl Alcohol	No data available		

Other Adverse Effects: No known significant effects or critical hazards.

13 Disposal Considerations

Disposal Methods: Diluted product can be flushed to sanitary sewer. Discard empty container in trash. Dispose of waste in accordance with federal, state, and local regulations.

14 Transportation Information

Certain shipping modes or package sizes may have exceptions from the transport regulations.

The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Ground Transport

DOT Classification:	Regulated
UN Number:	1760
Transport Hazard Class:	8
Packaging Group:	II
Hazardous Division:	Corrosive liquids, n.o.s.
Hazardous Contents:	(Alkyldimethylbenzyl ammonium chloride,Didecyldimethylammonium Chloride)

15 Regulatory Information

SARA Title III: No

California Proposition 65:

No

Other Regulations:

EPA Regulated

16 Other Information

HMIS/NFPA Hazard Rating:

Health: 1

Flammability: 0

Reactivity: 0

The information contained herein is based on the data available to us. It is believed to be correct. NO warranty, expressed or implied, is made regarding the accuracy of this data or the results to be obtained from the use thereof. For further information consult Maintex, Inc. .

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Neutral Cleaner pH 7

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Revision: 11/04/2020

Supersedes Revision: 06/18/2018

1. Product and Company Identification

Product Code: 01054
Product Name: Neutral Cleaner pH 7
Company Name: Genlabs
5568 Schaefer Ave.
Chino, CA 91710
Phone Number: 1 (254)826-9001
Web site address: www.genlabscorp.com
Email address: sol@genlabscorp.com
Emergency Contact: Chemtrec 1 (800)424-9300
Recommended Use: Neutral Cleaner
Intended Use: For sale to, use and storage by service persons only.

2. Hazards Identification

Acute Toxicity: Oral, Category 5

GHS Signal Word: Warning
GHS Hazard Phrases: H303 - May be harmful if swallowed.
H320 - Can cause eye irritation.
GHS Precaution Phrases: P264 - Wash hands thoroughly after handling.
GHS Response Phrases: P332+313 - If skin irritation occurs, get medical attention immediately.
P305+351+338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313 - If eye irritation persists, get medical attention immediately.
P301+310 - If swallowed: Immediately call a Poison Center or doctor.
GHS Storage and Disposal Phrases: P411+235 - Store in cool dry place at room temperature away from direct sunlight.
P501 - Dispose of contents and container according to the local, city, state and federal regulations.
Inhalation: Not expected to be a problem.
Skin Contact: Not expected to be a problem.
Eye Contact: Slight irritation.
Ingestion: Nausea, diarrhea, vomiting, stomach discomfort.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
68439-57-6	Alpha Olefin sulfonate, sodium salt	Proprietary	
61789-40-0	Cocamidopropyl betaine	Proprietary	

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Inhalation: Not expected to be a problem.

In Case of Skin Contact: Wash with water. Get medical aid if irritation develops and persists.

In Case of Eye Contact: Flush eyes with water as a precaution. Get medical aid if irritation or symptoms occur.

In Case of Ingestion: Drink large amounts of water. Call physician.

5. Fire Fighting Measures

Flash Pt: NA

Explosive Limits: LEL: N/A N.E. UEL: N/A N.E.

Autoignition Pt: NA

Suitable Extinguishing Media: CO2, dry foam, water.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Flammable Properties and Hazards: No data available.

Hazardous Combustion Products: No data available.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Wear appropriate gloves to prevent skin exposure.

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb on sand or vermiculite and place in closed containers for disposal.

7. Handling and Storage

Precautions To Be Taken in Handling: Keep container tightly closed in a dry and well-ventilated place.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
68439-57-6	Alpha Olefin sulfonate, sodium salt	No data.	No data.	No data.
61789-40-0	Cocamidopropyl betaine	No data.	No data.	No data.

Respiratory Equipment (Specify Type): None.

Eye Protection: None.

Protective Gloves: None.

Other Protective Clothing: None.

Engineering Controls (Ventilation etc.): No data available.

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Neutral Cleaner pH 7

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9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Pink color liquid with citrus fragrance.
pH:	6.50 - 8.50
Melting Point:	NA
Boiling Point:	> 212.00 F
Flash Pt:	NA
Evaporation Rate:	NA
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: N/A N.E. UEL: N/A N.E.
Vapor Pressure (vs. Air or mm Hg):	NA
Vapor Density (vs. Air = 1):	NA
Specific Gravity (Water = 1):	~ 1.036
Density:	~ 8.64
Solubility in Water:	100%
Saturated Vapor Concentration:	NA
Octanol/Water Partition Coefficient:	No data.
VOC / Volume:	0.0000 G/L
Autoignition Pt:	NA
Decomposition Temperature:	NA
Viscosity:	No data.

10. Stability and Reactivity

Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	None.
Incompatibility - Materials To Avoid:	Cationic materials, strong oxidizers, chlorine (bleach).
Hazardous Decomposition or Byproducts:	None.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	None.

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11. Toxicological Information

Toxicological Information: No data available.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
68439-57-6	Alpha Olefin sulfonate, sodium salt	n.a.	n.a.	n.a.	n.a.
61789-40-0	Cocamidopropyl betaine	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method: Dispose of contents and container according to the local, city, state and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT):**DOT Proper Shipping Name:** Not regulated as a hazardous material.**DOT Hazard Class:****UN/NA Number:****MARINE TRANSPORT (IMDG/IMO):****IMDG/IMO Shipping Name:** Not Regulated.**AIR TRANSPORT (ICAO/IATA):****ICAO/IATA Shipping Name:** Not Regulated.

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)
68439-57-6	Alpha Olefin sulfonate, sodium salt	No	No	No
61789-40-0	Cocamidopropyl betaine	No	No	No

This material meets the EPA ☒ Yes ☐ No Acute (immediate) Health Hazard**'Hazard Categories' defined** ☒ Yes ☐ No Chronic (delayed) Health Hazard**for SARA Title III Sections** ☐ Yes ☒ No Fire Hazard**311/312 as indicated:** ☐ Yes ☒ No Sudden Release of Pressure Hazard☐ Yes ☒ No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
68439-57-6	Alpha Olefin sulfonate, sodium salt	CA PROP.65: No; CA TAC, Title 8: No
61789-40-0	Cocamidopropyl betaine	CA PROP.65: No; CA TAC, Title 8: No

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Neutral Cleaner pH 7

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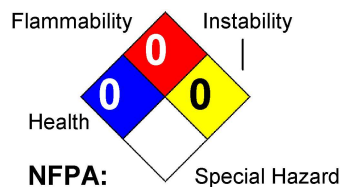
Revision: 11/04/2020

Supersedes Revision: 06/18/2018

16. Other Information

Revision Date: 11/04/2020**Hazard Rating System:**

HEALTH		0
FLAMMABILITY		0
PHYSICAL		0
PPE		

HMIS:**Additional Information About** No data available.**This Product:****Company Policy or****Disclaimer:**

The manufacturer believes the data set forth are accurate and makes no warranty with respects thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion.

1. Product and Company Identification

Product Code: 03010
Product Name: Stainless Steel Polish
Company Name: Genlabs
5568 Schaefer Ave.
Chino, CA 91710
Phone Number: 1 (254)826-9001
Web site address: www.genlabscorp.com
Email address: sol@genlabscorp.com
Emergency Contact: Chemtrec 1 (800)424-9300
Recommended Use: Polish
Intended Use: For sale to, use and storage by service persons only.

2. Hazards Identification

Aspiration Toxicity, Category 1

Flammable Liquids, Category 4

Acute Toxicity: Inhalation, Category 4

Acute Toxicity: Skin, Category 5

Serious Eye Damage/Eye Irritation, Category 2B



GHS Signal Word: **Danger**

GHS Hazard Phrases: H304 - May be fatal if swallowed and enters airways.
H227 - Combustible liquid.
H333 - May be harmful if inhaled.
H313 - May be harmful in contact with skin.
H320 - Can cause eye irritation.

GHS Precaution Phrases: P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P271 - Use only outdoors or in a well-ventilated area.
P264 - Wash hands thoroughly after handling.
P102 - Keep out of reach of children.

GHS Response Phrases: P301+310 - If swallowed: Immediately call a Poison Center or doctor.
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.
P302+352 - If on skin (or in hair): Wash with plenty of soap and water. P333+313 - If skin irritation or rash occurs, seek medical attention. P331 - Do NOT induce vomiting.

GHS Storage and Disposal Phrases: P501 - Dispose of contents and container according to the local, city, state and federal regulations.
P403+235 - Store in cool/well-ventilated place. P405 - Store locked up.

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Stainless Steel Polish

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Printed: 06/18/2021

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**Potential Health Effects
(Acute and Chronic):**

Chronic: Prolonged or repeated skin contact may cause defatting and dermatitis.

Inhalation:

May cause respiratory tract irritation. May cause dizziness, headaches and drowsiness.

Skin Contact:

May cause irritation with burning pain, itching and redness. Avoid any skin contact.

Eye Contact:

May cause eye irritation. Avoid any eye contact.

Ingestion:

Aspiration hazard. May cause irritation of the digestive tract. Do not induce vomiting unless directed by a physician. Toxic by ingestion. May cause dizziness, headaches and drowsiness.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
64742-47-8	Hydrotreated light distillate (petroleum)	Proprietary	
8042-47-5	Technical white oil* (regulated as mist only)	Proprietary	

4. First Aid Measures

**Emergency and First Aid
Procedures:****In Case of Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

In Case of Skin Contact:

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

In Case of Eye Contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

In Case of Ingestion:

Potential for aspiration if swallowed. Get medical aid immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have victim lean forward.

Note to Physician:

Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt:

> 320.00 F

Explosive Limits:

LEL: N/A N.E. UEL: N/A N.E.

Autoignition Pt:

NE

Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.**Fire Fighting Instructions:**

Combustible liquid. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool.

**Flammable Properties and
Hazards:**

No data available.

Hazardous Combustion

No data available.

Products:

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled:

Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Provide ventilation.

7. Handling and Storage

Precautions To Be Taken in Handling:

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Keep away from heat and flame.

Precautions To Be Taken in Storing:

Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
64742-47-8	Hydrotreated light distillate (petroleum)	No data.	TLV: 200 mg/m3	No data.
8042-47-5	Technical white oil* (regulated as mist only)	No data.	No data.	No data.

Respiratory Equipment (Specify Type):

Always use a NIOSH approved respirator when necessary.

Eye Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Protective Gloves:

Wear appropriate protective gloves to prevent skin exposure.

Other Protective Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.):

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

9. Physical and Chemical Properties

Physical States:

[] Gas [X] Liquid [] Solid

Appearance and Odor:

Colorless liquid with fruity fragrance.

pH:

NA

Melting Point:

NE

Boiling Point:

> 450.00 F

Flash Pt:

> 320.00 F

Evaporation Rate:

NE

Flammability (solid, gas):

No data available.

Explosive Limits:

LEL: N/A N.E. UEL: N/A N.E.

Vapor Pressure (vs. Air or mm Hg):

NE

Vapor Density (vs. Air = 1):

NE

SAFETY DATA SHEET

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Revision: 11/04/2020

Supersedes Revision: 06/18/2018

Specific Gravity (Water = 1): ~ 0.840
Density: ~ 7.00 LB/GA
Bulk density: NP
Solubility in Water: Insoluble
Saturated Vapor Concentration: NE
Octanol/Water Partition Coefficient: No data.
VOC / Volume: 16.8000 G/L
Autoignition Pt: NE
Decomposition Temperature: NE
Viscosity: NP
Particle Size: NP
Heat Value: NP
Corrosion Rate: NP

10. Stability and Reactivity

Stability: Unstable [] Stable [X]
Conditions To Avoid - Instability: Excessive heat, open flames and sparks. ignition sources.
Incompatibility - Materials To Avoid: Water, strong oxidizers, heat, open flames and sparks.
Hazardous Decomposition or Byproducts: Nitrogen oxides, Carbon monoxide, oxides of sulfur.
Possibility of Hazardous Reactions: Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions: None.

11. Toxicological Information

Toxicological Information: No data available.
Carcinogenicity/Other Information: CAS# 64742-47-8: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
64742-47-8	Hydrotreated light distillate (petroleum)	n.a.	n.a.	A4	n.a.
8042-47-5	Technical white oil* (regulated as mist only)	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method: Dispose of contents and container according to the local, city, state and federal regulations.

14. Transport Information

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Revision: 11/04/2020

Supersedes Revision: 06/18/2018

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not regulated as a hazardous material.

DOT Hazard Class:

UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated.

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated.

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

15. Regulatory Information

This material meets the EPA ☒ Yes ☐ No Acute (immediate) Health Hazard
'Hazard Categories' defined ☐ Yes ☒ No Chronic (delayed) Health Hazard
for SARA Title III Sections ☒ Yes ☐ No Fire Hazard
311/312 as indicated: ☐ Yes ☒ No Sudden Release of Pressure Hazard
☐ Yes ☒ No Reactive Hazard

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
64742-47-8	Hydrotreated light distillate (petroleum)	CA PROP.65: No; CA TAC, Title 8: No
8042-47-5	Technical white oil* (regulated as mist only)	CA PROP.65: No; CA TAC, Title 8: No

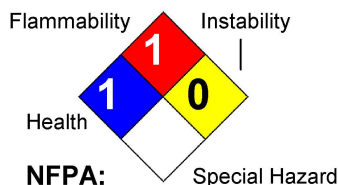
16. Other Information

Revision Date: 11/04/2020

Hazard Rating System:

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL	<input type="checkbox"/>	0
PPE	B	

HMIS:



Additional Information About This Product: No data available.

This Product:

Company Policy or

Disclaimer:

The manufacturer believes the data set forth are accurate and makes no warranty with respects thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion.

SAFETY DATA SHEET

POWER FORCE PREMIUM CLEANER DEGREASER

Section 1. Chemical product and company identification

Product name : POWER FORCE PREMIUM CLEANER DEGREASER
Recommended use and restrictions : Cleaning product

Use only for the purpose on the product label.

Product dilution information : Not applicable

Supplier's information : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

Code : 910488

Date of issue : 09 Jul 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

GHS Classification : **Product AS SOLD**
: SERIOUS EYE DAMAGE/ EYE IRRITATION -
Category 2A

GHS label elements

Signal word : Warning

Symbol :



Hazard statements : Causes serious eye irritation.

Precautionary statements

Prevention : Wear eye or face protection. Wash hands thoroughly after handling.

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 attention.

Storage : No other specific measures identified.

Disposal : See section 13 for waste disposal information.

Other hazards : None known.

Product AT USE DILUTION

Product is sold ready to use.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
PHENOXYISOPROPANOL	1 - 5	770-35-4
TRIETHANOLAMINE	1 - 5	102-71-6
poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-	1 - 5	34398-01-1

Product AT USE DILUTION

Hazardous ingredients	Concentration Range (%)	CAS number
-----------------------	-------------------------	------------

Product is sold ready to use.

Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	Product is sold ready to use.
Skin contact	: No known effect after skin contact. Rinse with water for a few minutes.	
Inhalation	: No special measures required. Treat symptomatically.	
Ingestion	: Get medical attention if symptoms occur.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing media	: Use water spray, fog or foam.
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 nitrogen oxides
Specific fire-fighting methods	: 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.

Section 6. Accidental release measures

	Product AS SOLD
Personal precautions	: Use personal protective equipment as required.
Environmental precautions	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Methods for cleaning up	: Use a water rinse for final clean-up.

Product AT USE DILUTION

Product is sold ready to use.

Section 7. Handling and storage

	Product AS SOLD
Handling	: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage	: Keep out of reach of children. Keep container tightly closed.
	Store between the following temperatures: 0 and 40°C

Product AT USE DILUTION

Product is sold ready to use.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
TRIETHANOLAMINE	ACGIH TLV (United States, 3/2012). TWA: 5 mg/m ³ 8 hours.

	Product AS SOLD	Product AT USE DILUTION
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.	Product is sold ready to use.
Personal protection		
Eye protection	: Wear eye protection.	
Hand protection	: No protective equipment is needed under normal use conditions.	
Skin protection	: No protective equipment is needed under normal use conditions.	
Respiratory protection	: A respirator is not needed under normal and intended conditions of product use.	
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.	

Section 9. Physical and chemical properties

	Product AS SOLD
Physical state	: Liquid.
Color	: Clear
Odor	: citrus
pH	: 9 to 11 (100%)
Flash point	: > 100°C Product does not support combustion.
Explosion limits	: Not available.

Product AT USE DILUTION

Product is sold ready to use.

Section 9. Physical and chemical properties

Flammability (solid, gas)	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Evaporation rate (butyl acetate = 1)	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 0.995 to 1.025 (Water = 1)
Solubility	: Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Odor threshold	: Not available.
Viscosity	: Not available.

Section 10. Stability and reactivity

Product AS SOLD

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.
Materials to avoid	: Slightly reactive or incompatible with the following materials: acids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion

Product AS SOLD

Symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Skin contact	: No specific data.
Inhalation	: No specific data.
Ingestion	: No specific data.

Acute toxicity

Eye contact	: Causes serious eye irritation.
Skin contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Toxicity data

Product/ingredient name

Product AT USE DILUTION

Product is sold ready to use.

Section 11. Toxicological information

1-phenoxy-2-propanol	LC50 Inhalation Dusts and mists	Rat	>5.4 mg/l
	LD50 Dermal	Rat	>2000 mg/kg
	LD50 Oral	Rat	2853 mg/kg
triethanolamine	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	6400 mg/kg
poly(oxy-1,2-ethanediyl), .alpha.-undecyl-. omega.-hydroxy-	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	1700 mg/kg

Chronic toxicity

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.

Section 12. Ecological information

Product AS SOLD

Ecotoxicity : No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
1-phenoxy-2-propanol	Acute LC50 280 mg/l	Fish	96 hours
triethanolamine	Acute LC50 11800 mg/l	Fish	96 hours
poly(oxy-1,2-ethanediyl), .alpha.-undecyl-. omega.-hydroxy-	Acute LC50 3.2 mg/l	Fish	96 hours

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Product AS SOLD
Disposal methods : Diluted product can be flushed to sanitary sewer.
Discard empty container in trash.

Product AT USE DILUTION
Product is sold ready to use.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification : Not regulated.

IMO/IMDG

IMO/IMDG Classification : Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION
Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

U.S. Federal regulations

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

SARA 302/304/311/312 **extremely hazardous substances**: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

SARA 313

Product name

CAS number

Concentration

Form R - Reporting requirements : No listed substance

California Prop. 65 : No listed substance

Section 16. Other information

Product AS SOLD

Hazardous Material :
Information System (U.S.A.)

Health	*	2
Flammability		0
Physical hazards		0

National Fire Protection Association (U.S.A.) :



Date of issue : 09 Jul 2013
Prepared by : Regulatory Affairs
1-800-352-5326

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.



SAFETY DATA SHEET

QUIK FILL 530 (NPE-FREE)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : QUIK FILL 530 (NPE-FREE)

Other means of identification : Not applicable

Recommended use : Degreaser

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 1.56 % - 12.5 %

Company : Ecolab Inc.
370 N. Wabasha Street
St. Paul, Minnesota USA 55102
1-800-352-5326

Emergency health information : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 11/18/2015

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

Skin corrosion : Category 1A

Serious eye damage : Category 1

Product AT USE DILUTION

Skin corrosion : Category 1A

Serious eye damage : Category 1

GHS Label element

Product AS SOLD

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**

Wash skin thoroughly after handling. 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. Immediately call a POISON CENTER or doctor/ physician. 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 or doctor/ physician. Wash contaminated clothing before reuse.

SAFETY DATA SHEET

QUIK FILL 530 (NPE-FREE)

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Product AT USE DILUTION

Hazard pictograms

:



Signal Word

: Danger

Hazard Statements

: Causes severe skin burns and eye damage.

Precautionary Statements

: **Prevention:**

Wash skin thoroughly after handling. 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. Immediately call a POISON CENTER or doctor/ physician. 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 or doctor/ physician. Wash contaminated clothing before reuse.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Product AS SOLD

Other hazards

: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD

Pure substance/mixture

: Mixture

Chemical Name

alcohols, c10-14, ethoxylated
Sodium Xylenesulfonate
triethanolamine
Sodium silicate
sodium hydroxide
2-(2-butoxyethoxy)ethanol

CAS-No.

66455-15-0
1300-72-7
102-71-6
1344-09-8
1310-73-2
112-34-5

Concentration (%)

10 - 30
5 - 10
1 - 5
1 - 5
1 - 5
1 - 5

Product AT USE DILUTION**Chemical Name**

alcohols, c10-14, ethoxylated

CAS-No.

66455-15-0

Concentration (%)

1 - 5

SECTION 4. FIRST AID MEASURES

Product AS SOLD

In case of eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

SAFETY DATA SHEET

QUIK FILL 530 (NPE-FREE)

In case of skin contact	: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
If swallowed	: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
If inhaled	: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
Protection of first-aiders	: If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to physician	: Treat symptomatically.
Most important symptoms and effects, both acute and delayed	: See Section 11 for more detailed information on health effects and symptoms.

Product AT USE DILUTION

In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
In case of skin contact	: Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
If swallowed	: Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
If inhaled	: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

SECTION 5. FIRE-FIGHTING MEASURES
--

Product AS SOLD

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: None known.
Specific hazards during fire fighting	: Not flammable or combustible.
Hazardous combustion products	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus
Special protective equipment for fire-fighters	: Use personal protective equipment.

SAFETY DATA SHEET

QUIK FILL 530 (NPE-FREE)

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Product AS SOLD

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. 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). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. 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). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE
--

Product AS SOLD

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage : Do not store near acids. Keep out of reach of children. Store in suitable labeled containers.

Storage temperature : 0 °C to 50 °C

Product AT USE DILUTION

Advice on safe handling : Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

SAFETY DATA SHEET

QUIK FILL 530 (NPE-FREE)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
triethanolamine	102-71-6	TWA	5 mg/m ³	ACGIH
sodium hydroxide	1310-73-2	Ceiling	2 mg/m ³	ACGIH
		Ceiling	2 mg/m ³	NIOSH REL
		TWA	2 mg/m ³	OSHA Z1
2-(2-butoxyethoxy)ethanol	112-34-5	TWA (Inhalable fraction and vapor)	10 ppm	ACGIH

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Wear eye protection/ face protection.

Hand protection : Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.
Wash face, hands and any exposed skin thoroughly after handling.
Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Product AT USE DILUTION

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Wear eye protection/ face protection.

Hand protection : Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they

SAFETY DATA SHEET**QUIK FILL 530 (NPE-FREE)**

must use appropriate certified respirators.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: fluorescent, light yellow	light yellow
Odor	: citrus	citrus
pH	: 12.5 - 14.0, 100 %	11.0 - 13.5
Flash point	: Not applicable	
Odor Threshold	: No data available	
Melting point/freezing point	: No data available	
Initial boiling point and boiling range	: 100 °C	
Evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapor pressure	: No data available	
Relative vapor density	: No data available	
Relative density	: 1.06 - 1.08	
Water solubility	: No data available	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/water	: No data available	
Autoignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Molecular weight	: No data available	
VOC	: No data available	

SECTION 10. STABILITY AND REACTIVITY**Product AS SOLD**

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: Acids Metals

SAFETY DATA SHEET

QUIK FILL 530 (NPE-FREE)

Hazardous decomposition products : Decomposition products may include the following materials:
 Carbon oxides
 Nitrogen oxides (NOx)
 Sulfur oxides
 Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Product AS SOLD

Eyes : Causes serious eye damage.
 Skin : Causes severe skin burns.
 Ingestion : Causes digestive tract burns.
 Inhalation : May cause nose, throat, and lung irritation.
 Chronic Exposure : Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes : Causes serious eye damage.
 Skin : Causes severe skin burns.
 Ingestion : Causes digestive tract burns.
 Inhalation : May cause nose, throat, and lung irritation.
 Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Product AS SOLD

Eye contact : Redness, Pain, Corrosion
 Skin contact : Redness, Pain, Corrosion
 Ingestion : Corrosion, Abdominal pain
 Inhalation : Respiratory irritation, Cough

Product AT USE DILUTION

Eye contact : Redness, Pain, Corrosion
 Skin contact : Redness, Pain, Corrosion
 Ingestion : Corrosion, Abdominal pain
 Inhalation : Respiratory irritation, Cough

Toxicity

Product AS SOLD

Acute oral toxicity : Acute toxicity estimate : 4,504 mg/kg

SAFETY DATA SHEET**QUIK FILL 530 (NPE-FREE)**

Acute inhalation toxicity	: No data available
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg/kg
Respiratory or skin sensitization	: No data available
Carcinogenicity	: No data available
Reproductive effects	: No data available
Germ cell mutagenicity	: No data available
Teratogenicity	: No data available
STOT-single exposure	: No data available
STOT-repeated exposure	: No data available
Aspiration toxicity	: No data available

SECTION 12. ECOLOGICAL INFORMATION**Product AS SOLD****Ecotoxicity**

Environmental Effects	: Harmful to aquatic life.
-----------------------	----------------------------

Product

Toxicity to fish	: No data available
Toxicity to daphnia and other aquatic invertebrates	: No data available
Toxicity to algae	: No data available

Ingredients

Toxicity to fish	: alcohols, c10-14, ethoxylated 96 h LC50 Fish: 1.125 mg/l
	triethanolamine 96 h LC50: 11,800 mg/l
	Sodium silicate 96 h LC50: 210 mg/l
	2-(2-butoxyethoxy)ethanol 96 h LC50 Fish: 1,300 mg/l

Ingredients

Toxicity to daphnia and other aquatic invertebrates	: triethanolamine 48 h EC50: 609.88 mg/l
	sodium hydroxide 48 h EC50: 40 mg/l

Ingredients

Toxicity to algae	: Sodium Xylenesulfonate 96 h EC50: 230 mg/l
	triethanolamine 72 h EC50: > 100 mg/l

SAFETY DATA SHEET**QUIK FILL 530 (NPE-FREE)****Persistence and degradability**

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Product AS SOLD**

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste : D002 (Corrosive)

Product AT USE DILUTION

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION**Product AS SOLD**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

UN number : 1824
 Description of the goods : Sodium hydroxide solution
 Class : 8
 Packing group : III
 Environmentally hazardous : no

Sea transport (IMDG/IMO)

SAFETY DATA SHEET**QUIK FILL 530 (NPE-FREE)**

UN number : 1824
 Description of the goods : SODIUM HYDROXIDE SOLUTION
 Class : 8
 Packing group : III
 Marine pollutant : no

Product AT USE DILUTION

Not intended for transport.

SECTION 15. REGULATORY INFORMATION**Product AS SOLD****EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium hydroxide	1310-73-2	1000	60976

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

2-(2-butoxyethoxy)ethanol 112-34-5 1.1979 %

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:**United States TSCA Inventory :**

On TSCA Inventory

Canadian Domestic Substances List (DSL) :

All components of this product are on the Canadian DSL

Australia Inventory of Chemical Substances (AICS) :

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemical Substances :

not determined

Japan. ENCS - Existing and New Chemical Substances Inventory :

not determined

Japan. ISHL - Inventory of Chemical Substances (METI) :

not determined

Korea. Korean Existing Chemicals Inventory (KECI) :

not determined

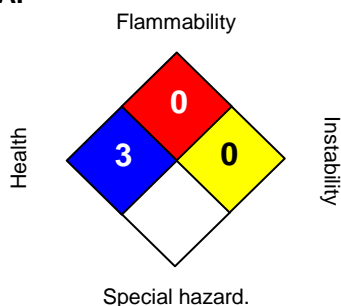
SAFETY DATA SHEET

QUIK FILL 530 (NPE-FREE)

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
not determined

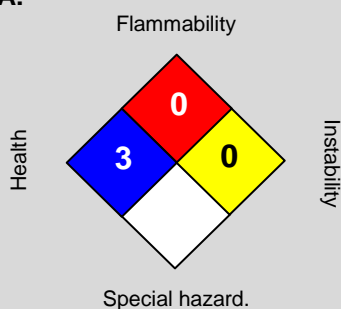
China. Inventory of Existing Chemical Substances in China (IECSC) :
On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Product AS SOLD**NFPA:****HMIS III:**

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Product AT USE DILUTION**NFPA:****HMIS III:**

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Issuing date : 11/18/2015
Version : 1.0
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material 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.

Safety Data Sheet

1453

1 Material and Supplier Identification

Product Name: **Sani-Cide 94**

Description: Disinfectant/Cleaner/Sanitizer

Recommended use of the chemical and restrictions: Use only for the purpose on product label. This product is not intended to be used without prior dilution if specified on product label.

Supplier's Information: **Maintex, Inc.**
13300 E. Nelson Ave
City of Industry, CA 91746
800-446-1888 (Customer Service)

Emergency Telephone: (800) 255-3924 USA (813)248-0585 International (Chemtel 24 hrs)

2 Hazards Identification

Classification of Mixture: Serious Eye Damage: Category 1
Skin Corrosion: Category 1B
Aquatic Hazard (Acute): Category 1
Aquatic Hazard (Long-term): Category 2

Pictogram



Signal Word: DANGER

Hazard Statements: Causes severe skin burns and eye damage. . Very toxic to aquatic life. Toxic to aquatic life with long lasting effects

Precautionary Statements

General: KEEP OUT OF REACH OF CHILDREN. Read label before use.

Prevention: Do not breathe vapors. Wash hands thoroughly after handling. Wear protective gloves and eye protection or face shield.

Response: IF ON SKIN: Take off contaminated clothing and wash before reuse. Rinse skin with water. If skin irritation persists: Get medical attention.
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 attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. If problem persists, call a Poison Center or get medical attention.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical attention immediately.

3 Composition/Information on Ingredients

<u>Hazardous Ingredients</u>	<u>CAS Number</u>	<u>Concentration Range %</u>
Alkyl dimethyl benzyl ammonium chloride	68424-85-1	10-15
Ethyl Alcohol	64-17-5	1-3

4 First Aid Measures

Eye Contact:	Flush eyes with water for 15 minutes. Remove contact lenses if any.
Skin Contact:	Contact with concentrate may be an irritant to sensitive skin. If spilt in large areas of skin, rinse immediately with water and remove clothing. Wash skin thoroughly with soap and water.
Inhalation	If discomfort is experienced after prolonged exposure to vapors, move person to fresh air. Get medical attention if irritation persists.
Ingestion:	Get medical attention immediately. Rinse mouth with water. Do NOT induce vomiting. Drink glass of water to dilute product.

5 Firefighting Measures

Suitable Extinguishing Media:	Water spray, normal foam, dry agent (carbon dioxide, dry chemical powder.)
Specific Hazards arising from the Chemical:	In a fire or if heated, a pressure increase will occur and the container may burst. Combustion products may include and are not limited to nitrogen oxides, carbon monoxide, and carbon dioxide.
Specific Protective Equipment and Precautions for Firefighters:	Firefighters should wear NIOSH approved self-contained breathing apparatus and protective clothing. If safe to do so, remove containers from path of fire. If involved in a fire, keep containers cool with water spray.

6 Accidental Release Measures

Emergency Procedures:	Keep area clear of personnel until area has been properly cleaned.
Personal Precautions/ Protective Equipment:	Slippery when spilt. To avoid accidents, clean up immediately and shut off source of leak, if safe to do so. Wear appropriate protective equipment to prevent any contamination of skin, eyes, and personal clothing. Provide sufficient ventilation.
Environmental Precautions:	If contamination of sewers or waterways has occurred, advise local emergency services.
Methods for Containment and Cleaning Up:	Contain spill with absorbent (soil, sand, or other inert material) or spill kit to prevent contamination of sewers or waterways. Neutralization agent is not recommended within building, as toxic vapors may be omitted. Properly dispose of used absorbents in accordance with local, state, and federal regulations.

7 Handling and Storage

Precautions for Safe Handling:	Avoid skin and eye contact, inhalation and ingestion. Wash hands thoroughly after use. Keep out of reach of children.
Conditions for Safe Storage, Including Incompatibilities:	Store in cool, dry place and out of direct sunlight. Store away from source of heat or ignition. Do not mix with other chemicals. Keep container closed when not in use, and check regularly for leaks.
	See Section 10 for incompatible materials.

8 Exposure Controls/Personal Protection

Control Parameters:

Hazardous Ingredients

Alkyl dimethyl benzyl ammonium chloride

Ethyl Alcohol

ACGIH TLV

N/A

TWA 1000 ppm

OSHA PEL

N/A

TWA 1000 ppm

NIOSH IDLH

N/A

N/A

Appropriate engineering controls:

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

Personal Protection

Eye Protection: Use protective glasses or safety goggles if splashing or spray-back is likely.

Hand Protection: Use protective gloves when used for prolonged periods or if skin sensitive.

Skin Protection: Use apron if splashing or spray-back is likely.

Respiratory Protection: Use in well ventilated areas or local exhaust ventilation when cleaning small spaces.

Hygiene Measures: Always wash hands after handling chemical products, and before smoking, eating, drinking, or using the toilet. Wash contaminated clothing or protective equipment before storage and re-use.

9 Physical and Chemical Properties

Physical State:	Liquid	Specific Gravity:	0.99	Vapour Pressure (mm Hg):	N/A
Color:	Clear	Evaporation Rate:	< 1	Vapour Density:	N/A
Odor:	Characteristic	Solubility in Water:	Complete	Freezing Point (°F):	N/A
pH:	6.5-8.3	VOC (g/L):	< 20	Boiling Point (°F):	N/A
				Flash Point (°F):	> 200

< means less than

> means greater than

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10 Stability and Reactivity

Reactivity: No specific data

Chemical Stability: Stable

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

Conditions to Avoid: Avoid exposure to heat and light.

Incompatible Materials: Slightly reactive or incompatible with oxidizers (e.g., bleach), strong acids (e.g., hydrochloric acid) and reactive metals (e.g., aluminum).

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxological Information

Symptoms:

Eye Contact:	Adverse symptoms may include the following: irritation, watering, redness
Skin Contact:	Adverse symptoms may include the following: irritation, redness
Inhalation:	Adverse symptoms may include the following: respiratory tract irritation, coughing
Ingestion:	Adverse symptoms may include the following: stomach pains

Acute Toxicity:

Eye Contact:	May cause eye irritation.
Skin Contact:	May cause skin irritation.
Inhalation:	May cause respiratory irritation.
Ingestion:	May cause burns to mouth, throat and stomach.

Toxicity Data:

<u>Hazardous Ingredients</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>
Alkyl dimethyl benzyl ammonium chloride	LD50	Rat	344 mg/kg
Ethyl Alcohol	LD 50- Dermal	Rabbit	3,412 mg/kg

Chronic Effects:

No known significant effects or critical hazards

12 Ecological Information

Ecotoxicity: No data available.

Aquatic Toxicity:

<u>Hazardous Ingredients</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>
Alkyl dimethyl benzyl ammonium chloride	N/A		
Ethyl Alcohol	No data available		

Other Adverse Effects:

No known significant effects or critical hazards.

13 Disposal Considerations

Disposal Methods:

Dispose of in accordance with local regulations.

14 Transportation Information

Certain shipping modes or package sizes may have exceptions from the transport regulations.

The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Ground Transport

DOT Classification:	Regulated
UN Number:	1760
Transport Hazard Class:	8
Packaging Group:	II
Hazardous Division:	Corrosive liquids, n.o.s.
Hazardous Contents:	Alkyldimethylbenzyl ammonium chloride

15 Regulatory Information

SARA Title III:	No
California Proposition 65:	No
Other Regulations:	EPA Regulated

16 Other Information

HMIS/NFPA Hazard Rating:

Health: 3

Flammability: 0

Reactivity: 0

The information contained herein is based on the data available to us. It is believed to be correct. NO warranty, expressed or implied, is made regarding the accuracy of this data or the results to be obtained from the use thereof. For further information consult Maintex, Inc. .

SAFETY DATA SHEET**1. Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade Name: LIQUID TIMSEN
Product Code: UCC-LTDS

1.2 Relevant identified uses of the substance or mixture and uses advised against

Uses of the Substance/Mixture: EPA Registration Number: 10324-111-507
Disinfectant/Food-Contact Sanitizer. This product is intended to be diluted prior to use. For further information refer to the EPA Registered product label. Uses other than those identified are not recommended.

Product dilution information: Disinfectant: 1 ounce per gallon; Sanitizer: 1 ounce per 4 gallons. Refer to EPA registered label for product dilution/application directions for use.

1.3 Details of the supplier of the safety data sheet

Company: Unit Chemical Corporation
7360 Commercial Way
Henderson, NV 89011
Phone: 800-879-8648 or 702-564-6454
Email: info@unitchemical.com

Prepared by: SDS Coordinator

Date prepared: 01/15/2024

Supersedes: 10/18/2021

Reason for revision: Section 14 update

1.4 Emergency telephone

Emergency telephone number: 800-879-8648

2. Hazards identification**2.1 Emergency overview**

Appearance: Clear solution with characteristic odor
Precautionary statements: Causes severe skin burns and serious eye damage
Harmful if swallowed

GHS classification**Health**

Serious eye damage/eye irritation	Category 1
Skin corrosion/irritation	Category 1B
Acute toxicity (oral)	Category 4
Acute toxicity (dermal)	Category 4

Product at Use-Dilution

Serious eye damage/eye irritation	Category 2B
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2.2 GHS label elements, including precautionary statements

Hazard pictograms/symbols

Signal Word:

DANGER!

Hazard Statements:

H302: Harmful if swallowed
H312: Harmful in contact with skin
H314: Causes severe skin burns and eye damage

Precautionary Statements:

Prevention

P262: Do not get in eyes, on skin, or on clothing
P264: Wash affected areas thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P280: Wear protective gloves and eye, face and foot protection

Response

P301+P312+P330+P331: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310: Immediately call a POISON CENTER or doctor/physician
P363: Wash contaminated clothing before reuse

Storage

P233: Keep container tightly closed
P234: Keep only in original container
P501: Dispose of contents and container to an approved waste disposal plant

Product at Use-Dilution

Hazard pictograms/symbols None

Signal Word: Warning

Hazard Statements: H320: Causes eye irritation

Precautionary Statements: **Prevention**

P264: Wash affected areas thoroughly after handling

Response

P305+P351+P338+P337+P313: 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 attention.

2.3 Other hazards

No information available

3. Composition/information on ingredients**3.1 Information on components and impurities**

Chemical name	CAS number(s)	GHS Classification	Concentration, %
Alkyl (C ₁₂₋₁₆) dimethylbenzyl ammonium chloride	68424-85-1	Serious eye damage/eye irritation: Category 1, Skin corrosion/irritation: Category 1B, Acute toxicity (oral): Category 3, Acute toxicity (dermal): Category 3; H301, H314, H318	>=9.5-<=10.5
Other components		Not classified	Balance

Product at Use-Dilution

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

4. First aid measures**4.1 Description of first-aid measures**

General advice: Show this material safety data sheet to medical personnel. Do not leave affected person unattended. Isolate exposed apparel for laundry before re-use.

Eye contact: Rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention if irritation develops or persists.

Skin contact: Take off contaminated clothing and shoes immediately. Wash affected areas with plenty of water. Seek medical attention if irritation develops or persists.

Ingestion: Do NOT induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Rinse mouth with water. Seek medical attention.

If inhaled: Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

Product at Use-Dilution

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

Skin contact: No known effect after skin contact. Rinse with water for a few minutes.

Ingestion: Get medical attention if symptoms occur

If inhaled: No special measures required. Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

Risks: The most important known symptoms and effects are described in the labeling (section 2.2) and/or in section 11. Corrosive effects. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. Prolonged or repeated skin contact may aggravate existing skin conditions. Inhalation of mists may aggravate existing chronic respiratory conditions such as asthma, emphysema or bronchitis.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.

5. Firefighting measures

Flash Point and Method: None

5.1 Extinguishing media

Suitable extinguishing media: The product is not flammable
Use media suitable for the material that is burning

Unsuitable extinguishing media: No data available

5.2 Special hazards arising from the substance or mixture

Special hazards during fire fighting: Container may rupture on heating

On combustion or on thermal decomposition: May include carbon oxides, nitrogen oxides

5.3 Advice for firefighters

Special protective equipment for firefighters: As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear.

Specific firefighting methods: No special methods required. Move containers from area if it can be done without risk. Cool fire-exposed containers with water from side. Contain the extinguishing fluids by diking.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Spill area may be slippery. Wear appropriate protective equipment (See Section 8).

6.2 Environmental precautions

Avoid contact of spilled material and runoff with soil and surface waterways

6.3 Methods and material for containment and cleaning up

Recovery: Stop leak if safe to do so. Absorb spills with vermiculite, fuller's earth, or sand. Shovel up and place in a non-metal waste container for disposal. Dike large spills with soil or sandbags to contain it and prevent its spread. Keep in suitable, properly labeled, closed containers for disposal.

Decontamination/cleaning: Wash non-recoverable remainder with large amounts of water. Clean contaminated surfaces thoroughly. Recover the cleaning water for subsequent disposal.

Disposal: Dispose of in accordance with local regulations

Additional advice: Spill area may be slippery

Product as Use-Dilution

Use a water rinse for final clean-up

6.4 Reference to other sections

No information available

7. Handling and storage

7.1 Precautions for safe handling

Technical measures: Does not require any specific or particular measures

Advice on safe handling and usage: Wear appropriate protective equipment including long chemical resistant gloves, chemical splash goggles and protective footwear. Handle in accordance with good industrial hygiene and safety practice. Do not spray toward face. Wash affected areas after use. Do not taste or swallow. Avoid breathing vapors or mists. Use only with adequate ventilation. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

Product at Use-Dilution

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures for storage: Does not require any specific or particular measures

Storage class (TRGS 510): Non-combustible, corrosive materials

Storage conditions

Recommended: Keep container tightly closed. Opened containers must be carefully resealed and kept upright to prevent leakage.

Incompatible products: Hazardous reactions may occur on contact with certain chemicals. Refer to the list of incompatible materials section 10: "Incompatible materials"

Product at Use-Dilution

Keep out of reach of children. Keep container tightly closed.

7.3 Specific end use(s)

No information available

8. Exposure controls/personal protection

Introductory remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers

8.1 Control parameters

Components with workplace control parameters

Components	Value	Control parameters	Basis
Not reportable			

8.2 Exposure controls

Control measures

Engineering measures: Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

Personal protective equipment

Respiratory protection: In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.

Hand protection: Wear long chemical resistant gloves. Observe instructions regarding permeability and breakthrough time provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection: Wear chemical splash goggles.

Skin and body protection: Wear footwear protecting against chemicals, and impervious clothing. Choose body protection according to the amount and concentration of the substances in the workplace.

Hygiene measures: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Protective measures: Ensure that eyewash stations and safety showers are close to the workstation location, and that emergency equipment is immediately accessible with instructions for use.
The protective equipment must be selected in accordance with current local standards and in following proper use instructions from the supplier of the protective equipment.
Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

Product at Use-Dilution

Respiratory protection: A respirator is not needed under normal and intended conditions of product use

Hand protection: No protective equipment is needed under normal use conditions

Eye protection: No protective equipment is needed under normal use conditions

Skin and body protection: No protective equipment is needed under normal use conditions

Hygiene measures: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet
- 3) Wash exposed skin promptly to remove accidental splashes or contact with product

9. Physical and chemical properties

Physical and chemical properties listed represent typical properties and should not be considered product specifications. Refer to product Certificate of Analysis for Product Specifications or contact Mason Chemical Company for additional information.

9.1 Information on basic physical and chemical properties

Appearance: Clear solution
Odor: Characteristic odor
Odor Threshold: No information available
pH: 6-8
Freezing point: No information available
Melting point/range: No information available

Boiling point/boiling range:	>100°C
Flash point:	Does not flash
Evaporation rate:	No information available
Flammability (solid, gas):	Not applicable
Flammability/Explosive limit:	No information available
Auto-ignition temperature:	No information available
Vapor pressure:	No information available
Vapor density:	No information available
Density:	0.99 g/ml, 8.3 lbs/gal (25°C)
Solubility:	Water solubility: soluble
Solubility in other solvents:	No information available
Partition coefficient: n-octanol/water:	No information available
Thermal decomposition:	No information available
Viscosity:	Low viscosity
Explosive properties:	No information available
Oxidizing properties:	No information available

Product at Use-Dilution

Appearance:	Clear solution
Odor:	Characteristic odor
pH:	5-8
Flash point:	Does not flash

9.2 Other information

No information available

10. Stability and reactivity

10.1 Reactivity

No information available

10.2 Chemical stability

Stable and non-reactive under normal conditions of use, storage and transport

10.3 Possibility of hazardous reactions

No information available

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

Anionic surfactants

10.6 Hazardous decomposition products

Oxides of carbon and nitrogen

11. Toxicological information

Product Summary:

Causes severe skin burns and serious eye damage. Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly digestive tract. Vapors and spray mist may irritate throat and respiratory system and cause coughing.

No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

Information on likely routes of exposure:

Eye contact	Corrosive. Causes serious eye damage. Symptoms may include pain, burning sensation, redness, watering, blurred vision or loss of vision.
Skin contact	Corrosive. Causes severe burns. Symptoms may include burns, blisters, redness and pain (which may be delayed).
Ingestion	Harmful if swallowed. Causes burns/serious damage to mouth, throat and stomach. Symptoms may include vomiting, nausea, and/or feeling of general unwellness.
Inhalation	May cause irritation and corrosive effects to nose, throat and respiratory tract. Symptoms may include coughing and difficulty breathing.
Sensitization	No known effects

Product at Use-dilution**Product Summary:**

Causes eye irritation.

No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

Information on likely routes of exposure:

Eye contact	Causes eye irritation. Symptoms may include irritation, watering, redness
Skin contact	No known significant effects or critical hazards
Ingestion	No known significant effects or critical hazards
Inhalation	No known significant effects or critical hazards
Sensitization	No known effects

11.1 Information on toxicological effects**Acute toxicity**

Acute oral:	LD ₅₀ 344-366 mg/kg
Acute dermal:	LD ₅₀ 1500-3340 mg/kg
Acute inhalation:	No information available
Acute toxicity (other):	No information available

Skin corrosion/irritation

Skin irritation:	Corrosive. Causes severe burns
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Serious eye damage/eye irritation

Eye irritation:	Corrosive. Causes serious eye damage.
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Respiratory or skin sensitization

Sensitization:	Not classified as sensitizing by skin contact
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Product at Use-dilution**Acute toxicity**

Acute oral:	LD ₅₀ >5000 mg/kg
Acute dermal:	LD ₅₀ >2000 mg/kg
Acute inhalation:	No information available
Acute toxicity (other):	No information available

Skin corrosion/irritation

Skin irritation:	No known significant effects or critical hazards
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Serious eye damage/eye irritation

Eye irritation:	Causes eye irritation
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Respiratory or skin sensitization

Sensitization:	Not classified as sensitizing by skin contact
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Mutagenicity

Genotoxicity in vitro:	No information available
Genotoxicity in vivo:	No information available

Carcinogenicity

Carcinogenicity:	This product does not contain any ingredient designated as probable or suspected human carcinogens by IARC, ACGIH
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Toxicity for reproduction and development

Toxicity to reproduction/fertility:	No information available
Developmental toxicity/teratogenicity:	No information available

Specific Target Organ Toxicity (STOT)

STOT-single exposure:	No information available
STOT-repeated exposure:	No information available

Aspiration toxicity

Aspiration toxicity:	No information available
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Other Hazards

No information available

12. Ecological information**12.1 Toxicity**

Aquatic toxicity:	Toxic to aquatic life
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12.2 Persistence and degradability

Biodegradation:	No information available
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12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:	No bioaccumulation is to be expected (log Pow≤4)
Bioconcentration factor (BCF):	No information available

12.4 Mobility in soil

Known distribution to environmental compartments:	No information available
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12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

Environmental assessment:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.
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13. Disposal considerations**13.1 Waste treatment methods****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.

Product disposal:

Observe all applicable federal, state, and local regulations

Packaging:

Remove all residue when emptying

Product at Use-Dilution**Waste treatment methods****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.

Product disposal:

Diluted product can be flushed to sanitary sewer

Packaging:

Discard empty container in trash or offer for recycling

14. Transportation information

DOT Hazard Classification:

UN number: 1903

UN proper shipping name: DISINFECTANTS, LIQUID, CORROSIVE, N.O.S. (QUATERNARY AMMONIUM COMPOUND)

Transport hazard class: 8

Packing group: III

Limited Quantity: 5L*

*inner packaging, requiring proper outer packaging and Limited Quantities marking with proper shipping name, maximum gross weight 30kgs/66lbs

Product at Use-Dilution

DOT Hazard Classification:

Not applicable

15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Notification status:

Not applicable

OSHA Hazard Communication Standard (26 CFR 1910.1200):

Hazardous

CERCLA (RQ)

Ingredient(s)	CAS#	Weight	CERCLA RQ	Section 302 TPQ
Not listed				

SARA/EPCRA Extremely Hazardous Substances (302/304)

Ingredient(s)	CAS#	Weight	RQ	TPQ
Not listed				

SARA Hazard Categories (311/312)

Fire	Reactive	Acute health hazard	Chronic health hazard
No	No	Yes	No

SARA Toxic Substances (313) The following components are subject to SARA Section 313 reporting requirements

Ingredient(s)	CAS#	Weight
Not listed		

CAA (311) Volatile Organic compounds

Ingredient(s)	CAS#	Weight
Not listed		

15.2 Other regulations

No information available

16. Other information

NFPA-Classification		HMIS-Classification	
Health	3 high	Health	3 high
Flammability	0 insignificant	Flammability	0 insignificant
Instability or Reactivity	0 insignificant	Reactivity	0 insignificant
		HMIS PPE	B
		B=Safety glasses, Gloves	

Product at Use-Dilution

NFPA-Classification		HMIS-Classification	
Health	1 slight	Health	1 slight
Flammability	0 insignificant	Flammability	0 insignificant
Instability or Reactivity	0 insignificant	Reactivity	0 insignificant
		HMIS PPE	

Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH: American Conference of Governmental Industrial Hygienists	NIOSH: National Institute for Occupational Safety and Health
HMIS: Hazardous Materials Identification System	NTP: National Toxicology Program
IARC: International Agency for Research on Cancer	OSHA: Occupational Safety and Health Administration
NFPA: National Fire Protection Association	

Disclaimer:

This document was created for reference purposes only. Based on the US EPA approved basic formulation.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of this 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.



SAFETY DATA SHEET

SECTION 1. PRODUCT & COMPANY IDENTIFICATION

Material Name: MEDI-ZAP 128 Neutral Disinfectant Cleaner (NDC)
 Product Use Dilution: Up to 1 ounce per gallon in water.
 Manufacturer: Unit Chemical Corporation
 7360 Commercial Way
 Henderson, NV 89011
 Telephone: (702) 564-6454 / (800) 879-8648
 Medical Telephone: 911

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview:

Appearance: Liquid
 Color: Green/Yellow/Clear
 Fragrance: Pleasant

GHS Classification:

Acute Toxicity: Category 4
 Skin Corrosion/Irritation: Category 1B
 Eye Corrosion/Irritation: Category 1

GHS Label Elements:

Pictograms:



Signal Word: Danger

Hazard Statements: Harmful if swallowed.
 Causes severe skin burns.
 Causes eye damage.

Precautionary:

Prevention:

Wash skin thoroughly after handling.
 Wear eye protection / face protection / protective gloves.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
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 or doctor/physician.

Diluted Product

None
 Category 3
 Category 2B

No Symbol

Warning

Skin Irritation Unlikely
 Eye Irritation

Potential Health Effects - Carcinogenicity:

IARC	No component of this product is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product is identified as a carcinogen or potential carcinogen by ACGIH.
OSHA	No component of this product is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No component of this product is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Percent</u>
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68391-01-5	< 5%
Octyl decyl dimethyl ammonium chloride	42326-11-2	< 5%
Didecyl dimethyl ammonium chloride	7173-51-5	< 3%
Dioctyl dimethyl ammonium chloride	5538-94-3	< 3%
Ethylenediamine tetraacetic acid (EDTA)	64-02-08	< 2%
Ethoxylated Alcohols (C12-15)	68131-39-5	< 2%
Citric Acid (Food Grade)	77-92-9	< 1%
Citrus Strawberry Fragrance	P-71234	< 0.5%
D&C Acid Yellow #23	1934-21-0	< 0.1%
Water	7732-18-5	< 80%

SECTION 4. FIRST AID MEASURES

General Advice:	Move out of dangerous area. Show this safety sheet to the doctor in attendance. Do not leave victim unattended.
Inhalation:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
Skin Contact:	Wash skin thoroughly with soap and water. If on clothes, remove clothes. If skin irritation persists, call a physician.
Eye Contact:	Protect unharmed eye. Remove contact lenses. Immediately flush eye(s) with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
Ingestion:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. Clean mouth with water first and then drink plenty of water. Do not give milk or alcoholic beverages. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If symptoms persist, call a physician.
Note to Physician:	If the product is ingested, probably mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

SECTION 5. FIRE FIGHTING MEASURES:

Extinguishing Media:	Water spray, foam, dry agent (carbon dioxide, dry chemical powder).
Unsuitable Media:	None known.
Hazardous Thermal Decomposition Products:	Decomposition product may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxide, and smoke.
Fire Fighting Method:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dike the area of fire to prevent runoff.
Special Protective Fire-Fighter Equipment:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. No unusual fire or explosion hazards noted.

SECTION 6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions:	Initiate company's spill response procedures. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not walk through spilled material. Surface may be slippery after spillage.
Environmental Precautions:	Avoid contact of spilled material and runoff with soil and surface waterways.
Methods for Cleaning Up and Containment:	Contain spill with absorbent (soil, sand, or other inert material) or spill kit to prevent contamination of soil and surface waterways. Properly dispose of used absorbents in accordance with local, state, and federal regulations.

SECTION 7. HANDLING AND STORAGE:

Handling Precautions:	Do not ingest. Do not get in eyes, on skin, or on clothing. Keep container closed. Wash hands thoroughly after use. As with all chemicals, good industrial hygiene practices should be followed when handling this material.
Storage Precautions:	Keep out of reach of children. Store in a dry place. Avoid freezing or excessive heat. Store in the original tightly closed container.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Occupational Limits:	No exposure limits noted for ingredient(s).
Biological Limits:	No exposure limits noted for ingredient(s).
Engineering Controls:	Ensure adequate ventilation.
<u>Personal Protection:</u>	
Eye Protection:	Wear protective glasses or goggles if splashing or spray-back is likely.
Hand Protection:	Wear protective gloves.
Skin Protection:	Wear suitable protective clothing.
Respiratory Protection:	Use in well ventilated areas.
Hygiene Measures:	Always wash hands after handling chemical products, and before smoking, eating, drinking or using the toilet. Wash protective equipment before storage and re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Liquid
Color:	Green/Yellow/Clear
Odor:	Pleasant
Solubility In Water:	Complete
pH:	6.5 - 7.5
Flash Point:	> 201 °F PMCC
Specific Gravity:	8.41 lb/gal
Boling Point:	> 212 °F
Freezing Point:	< 32 °F
Evaporation Rate:	< 1

SECTION 10. STABILITY AND REACTIVITY:

Reactivity:	Non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Material is stable under normal conditions.
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. Anionic surfactants.
Hazardous Decomp:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION:

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Symptoms:

Eye Contact:	Adverse symptoms may include pain, watering and redness.
Skin Contact:	Adverse symptoms may include pain or irritation and redness.
Inhalation:	Adverse symptoms may include respiratory tract irritation and coughing.
Ingestion:	Adverse symptoms may include stomach pains.

Acute Toxicity:

Eye Contact:	May cause serious eye damage.
Skin Contact:	May cause skin irritation and possible burns.
Inhalation:	May cause respiratory irritation.
Ingestion:	Harmful if swallowed. May cause burns to mouth, throat and stomach.

Other Toxicity Information:

Skin Sensitization:	This product is not expect to cause skin sensitization
Carcinogenicity:	Not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive Toxicity:	Product is not expected to cause reproductive or development effects.
Target Organ Toxicity:	May cause damage to organs.
Aspiration Hazard:	Not likely, due to the form of this product.

NOTE: Product not listed under US.OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) or CERCLA Hazardous Substance List (40 CFR 302.4)

SECTION 12. ECOLOGICAL INFORMATION:

Ecotoxicity:	Not applicable for container sizes less than 5 gallons.
Mobility in Soil:	No information available.
Degradability:	No information available.
Bioaccumulative:	No information 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 product.

SECTION 13. DISPOSAL CONSIDERATIONS:

Waste Disposal Methods:	Dispose in accordance with all applicable regulations.
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 emptied.

SECTION 14. TRANSPORT INFORMATION:

DOT Proper Shipping name:	Certain shipping modes or package sizes may have exceptions from the transport regulations. Therefore, refer to bill of lading or container label for DOT or other transportation hazard warning or classification, if any.
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SECTION 15. REGULATORY INFORMATION:

US Federal Regulations:	This product is a U.S. EPA registered product. This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).
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Pesticide Labeling Information Required Under U.S. FIFRA Regulations: This chemical is a pesticide product registered by the Environmental Protection Agency (EPA) 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. Following is the hazard information as required on the pesticide label: DANGER, corrosive, causes irreversible eye damage, causes skin burns, harmful if swallowed, and may be fatal if absorbed through skin.

Superfund Amendments and Reauthorization Act of 1886 (SARA)

SARA 304 (Extremely Hazardous):	This material does not contain any components with a section 304 Extremely Hazardous Substances Reportable Quantity.
SARA 311/212 Hazards:	Acute Health Hazard.
SARA 302:	No chemicals in this material are subject to the reporting requirements 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.
Safe Drinking Water Act (SDWA):	Not regulated.
State Regulations:	California Proposition 65: This product does not contain a listed substance known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

SECTION 16. OTHER INFORMATION:

NFPA / HMIS Ratings (Concentrate): Health: 3 - Flammability: 0 - Reactivity: 0

NFPA / HMIS Ratings (Use Dilution): Health: 1 - Flammability: 0 - Reactivity: 0

Disclaimer: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Since the conditions of handling and use are beyond our control, it is impossible to foresee every health effect or exposure risk incurred by the use of this product. All chemicals present some degree of hazard and should be used with caution. The information and recommendations contained herein are presented in good faith. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Safety Data Sheet

1454

1 Material and Supplier Identification

Product Name: **15 Citra-Cide**

Description: Concentrated Disinfectant/Cleaner/Sanitizer

Recommended use of the chemical and restrictions: Use only for the purpose on product label. This product is not intended to be used without prior dilution if specified on product label.

Supplier's Information: **Maintex, Inc.**
13300 E. Nelson Ave
City of Industry, CA 91746
800-446-1888 (Customer Service)

Emergency Telephone: (800) 255-3924 USA (813)248-0585 International (Chemtel 24 hrs)

2 Hazards Identification

Classification of Mixture: Serious Eye Damage: Category 1
Skin Corrosion: Category 1

Pictogram



Signal Word: DANGER

Hazard Statements: Causes severe skin burns and eye damage.

Precautionary Statements

General: KEEP OUT OF REACH OF CHILDREN. Read label before use.

Prevention: Do not breathe vapors. Wash hands thoroughly after handling. Wear protective gloves and eye protection.

Response: IF ON SKIN: Take off contaminated clothing and wash before reuse. Rinse skin with water. If skin irritation persists: Get medical attention.
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 attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. If problem persists, call a Poison Center or get medical attention.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical attention immediately.

3 Composition/Information on Ingredients

Hazardous Ingredients

	<u>CAS Number</u>	<u>Concentration Range %</u>
Didecyl dimethyl ammonium chloride	7173-51-5	2.54
Alkyl dimethyl benzyl ammonium chloride	68424-85-1	1.69

4 First Aid Measures

Eye Contact:	Flush eyes with water for 15 minutes. Remove contact lenses if any.
Skin Contact:	Contact with concentrate may be an irritant to sensitive skin. If spilt in large areas of skin, rinse immediately with water and remove clothing. Wash skin thoroughly with soap and water.
Inhalation	If discomfort is experienced after prolonged exposure to vapors, move person to fresh air. Get medical attention if irritation persists.
Ingestion:	Get medical attention immediately. Rinse mouth with water. Do NOT induce vomiting. Drink glass of water to dilute product.

5 Firefighting Measures

Suitable Extinguishing Media:	Water spray, normal foam, dry agent (carbon dioxide, dry chemical powder.)
Specific Hazards arising from the Chemical:	In a fire or if heated, a pressure increase will occur and the container may burst. Combustion products may include and are not limited to nitrogen oxides, carbon monoxide, and carbon dioxide.
Specific Protective Equipment and Precautions for Firefighters:	Firefighters should wear NIOSH approved self-contained breathing apparatus and protective clothing. If safe to do so, remove containers from path of fire. If involved in a fire, keep containers cool with water spray.

6 Accidental Release Measures

Emergency Procedures:	Keep area clear of personnel until area has been properly cleaned.
Personal Precautions/ Protective Equipment:	Slippery when spilt. To avoid accidents, clean up immediately and shut off source of leak, if safe to do so. Wear appropriate protective equipment to prevent any contamination of skin, eyes, and personal clothing. Provide sufficient ventilation.
Environmental Precautions:	If contamination of sewers or waterways has occurred, advise local emergency services.
Methods for Containment and Cleaning Up:	Contain spill with absorbent (soil, sand, or other inert material) or spill kit to prevent contamination of sewers or waterways. Neutralization agent is not recommended within building, as toxic vapors may be omitted. Properly dispose of used absorbents in accordance with local, state, and federal regulations.

7 Handling and Storage

Precautions for Safe Handling:	Avoid skin and eye contact, inhalation and ingestion. Wash hands thoroughly after use. Keep out of reach of children.
Conditions for Safe Storage, Including Incompatibilities:	Store in cool, dry place and out of direct sunlight. Store away from source of heat or ignition. Do not mix with other chemicals. Keep container closed when not in use, and check regularly for leaks.
	See Section 10 for incompatible materials.

8 Exposure Controls/Personal Protection

Control Parameters:

Hazardous Ingredients

	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH IDLH</u>
Didecyl dimethyl ammonium chloride	N/A	N/A	N/A
Alkyl dimethyl benzyl ammonium chloride	N/A	N/A	N/A

Appropriate engineering controls:

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

Personal Protection

Eye Protection: Use protective glasses or safety goggles if splashing or spray-back is likely.

Hand Protection: Use protective gloves when used for prolonged periods or if skin sensitive.

Skin Protection: Use apron if splashing or spray-back is likely.

Respiratory Protection: Use in well ventilated areas or local exhaust ventilation when cleaning small spaces.

Hygiene Measures: Always wash hands after handling chemical products, and before smoking, eating, drinking, or using the toilet. Wash contaminated clothing or protective equipment before storage and re-use.

9 Physical and Chemical Properties

Physical State:	Liquid	Specific Gravity:	1.0	Vapour Pressure (mm Hg):	< 17 mm Hg
Color:	Yellow	Evaporation Rate:	< 1	Vapour Density:	> 1
Odor:	Lemon	Solubility in Water:	Complete	Freezing Point (°F):	< 32
pH:	7.5-8.5	VOC (g/L):	<6	Boiling Point (°F):	> 212
				Flash Point (°F):	> 200

< means less than

> means greater than

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10 Stability and Reactivity

Reactivity: No specific data

Chemical Stability: Stable

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

Conditions to Avoid: Avoid exposure to heat and light.

Incompatible Materials: Slightly reactive or incompatible with oxidizers (e.g., bleach), strong acids (e.g., hydrochloric acid) and reactive metals (e.g., aluminum).

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxological Information

Symptoms:

Eye Contact:	Adverse symptoms may include the following: irritation, watering, redness
Skin Contact:	Adverse symptoms may include the following: irritation, redness
Inhalation:	Adverse symptoms may include the following: respiratory tract irritation, coughing
Ingestion:	Adverse symptoms may include the following: stomach pains

Acute Toxicity:

Eye Contact:	May cause eye irritation.
Skin Contact:	May cause skin irritation.
Inhalation:	May cause respiratory irritation.
Ingestion:	May cause burns to mouth, throat and stomach.

Toxicity Data:

<u>Hazardous Ingredients</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>
Didecyl dimethyl ammonium chloride	LD50 - Oral	Rat	238 mg/kg
	LD50 - Dermal	Rabbit	3,342 mg/kg
Alkyl dimethyl benzyl ammonium chloride	LD50	Rat	344 mg/kg
	LD 50- Dermal	Rabbit	3,340 mg/kg

Chronic Effects: No known significant effects or critical hazards

12 Ecological Information

Ecotoxicity: No data available.

Aquatic Toxicity:

<u>Hazardous Ingredients</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>
Didecyl dimethyl ammonium chloride	No Data Available		
Alkyl dimethyl benzyl ammonium chloride	EC50	Daphnia Magna	<1.00 mg/l/48hrs

Other Adverse Effects: No known significant effects or critical hazards.

13 Disposal Considerations

Disposal Methods: Diluted product can be flushed to sanitary sewer. Discard empty container in trash.
Dispose of waste in accordance with federal, state, and local regulations.

14 Transportation Information

Certain shipping modes or package sizes may have exceptions from the transport regulations.

The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Ground Transport

DOT Classification: Not Regulated

UN Number:

Transport Hazard Class:

Packaging Group: N/A

Hazardous Division:

Hazardous Contents:

15 Regulatory Information

SARA Title III: No
California Proposition 65: No
Other Regulations: EPA Regulated

16 Other Information

HMIS/NFPA Hazard Rating:

Health: 1

Flammability: 0

Reactivity: 0

The information contained herein is based on the data available to us. It is believed to be correct. NO warranty, expressed or implied, is made regarding the accuracy of this data or the results to be obtained from the use thereof. For further information consult Maintex, Inc. .

SDS Revision Date: 7/8/2015

SAFETY DATA SHEET



This Safety Data Sheet (SDS) complies with the requirements of the U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200) and equivalent state Standards. It has also been developed in accordance with the United Nations Globally Harmonized System of Classification of Chemicals (GHS) and the Canadian Workplace Hazardous Materials Information System (WHMIS). Refer to Section 16 of this document for the definition of terms and abbreviations.

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

- ITEM NUMBER(S): 170300, 170304
- PRODUCT NAME: **700 Disinfectant Cleaner**
 - 3L: 170300
 - Quat-128
 - 1 GL: 170304

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE

- RECOMMENDED USE: Disinfection of surfaces, equipment.
- IDENTIFIED USERS: For sale to, use and storage by service persons only.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

- MANUFACTURER/
SUPPLIER: **Waxie's Enterprises, LLC, an Envoy Solutions Company**
- ADDRESS: 9353 Waxie Way, San Diego, CA 92123-1036
- BUSINESS PHONE: 1-800-995-4466
- EMERGENCY PHONE: 1-800-255-3924 (CHEMTEL; 24 hours)

1.4 OTHER PERTINENT INFORMATION

- This product is intended to be used only after dilution. The relevant hazard and safety data are specified for both the **Product as SOLD** and **Product at USE DILUTION**, where appropriate.
- EPA registration # 1839-166-14994.

SECTION 2: HAZARD IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

OSHA/HCS Status: The product is a disinfectant that has been labelled according to the regulations under FIFRA (Federal Insecticide, Fungicide and Rodenticide Act). The following GHS information has been developed based on OSHA regulations under Hazard Communication (29 CFR 1910.1200), the hazards associated with the components and their concentrations, and the anticipated routes of exposure for this product as sold and used.

OSHA/HCS Status

Classification of the Substance or Mixture

Product as SOLD

Acute Toxicity, Oral (Category 5), Skin corrosion/Irritation (Category 1); Serious eye damage/Irritation (Category 1)

Product at USE DILUTION

Not rated as a hazardous material under OSHA hazard classification definitions (29 CFR 1910, 200, Appendices A and B). The following label elements have been prepared based on prudent practice for use, accident response and storage.

2.2 LABEL ELEMENTS:

ELEMENT

Hazard Pictograms

Product as SOLD



Product at USE DILUTION

Not applicable.

Signal Word

DANGER

Not applicable.

Hazard Statements

H303: May be harmful if swallowed.
H314: Causes severe skin burns and

Not applicable.

SECTION 2: HAZARDS IDENTIFICATION (Continued)

2.2 LABEL ELEMENTS (Continued):

ELEMENT	Product as SOLD	Product at USE DILUTION
Precautionary Statements	eye damage. H318: Causes serious eye damage.	
Prevention	P102: Keep out of reach of children. P103: Read label before use. P264: Wash face, hands and any exposed skin thoroughly after handling. P280: Wear protective gloves, protective clothing, and eye protection/face protection.	P103: Read label before use. P264: Rinse exposed skin after use.
Response	P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+361+353: IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+340: IF INHALED: Remove person to fresh air and keep 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. P310: Immediately call a POISON CENTER or doctor/physician. P363: Wash contaminated clothing before reuse.	P313: In case of accidental exposure, seek medical advice if irritation persists.
Storage	P406+235+410+403: Store in original plastic container, or a corrosive resistant container with a corrosive resistant inner liner, locked up in a cool, dry, well-ventilated place at room temperature away from direct sunlight. P404: Keep container tightly closed.	(No P Code Specified): Store in a cool dry place at room temperature away from direct sunlight.
Disposal	P501: Dispose of contents and container according to the local, city, state and federal regulations	(No P Code Specified): Triple rinse container and offer for recycling. Dispose of contents and container according to the local, city, state and federal regulations.

2.3 OTHER PERTINENT DATA ON CHEMICAL AND PHYSICAL HAZARDS:

- Not applicable.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES/MIXTURES

CHEMICAL	CAS NUMBER	GHS HAZARD CLASSIFICATION FOR CHEMICAL	% (w/w)
Benzalkonium Chloride	68424-85-1	Acute toxicity, Oral (Category 4); Skin corrosion (Category 1B); Serious eye damage (Category 1)	1-5 ¹
Quaternium-24	32426-11-2	Acute toxicity, Oral (Category 4); Skin corrosion (Category 1B); Serious eye damage (Category 1)	1-5
1-Octanaminium, N,N-Dimethyl-N-octyl-, chloride	5538-94-3	Acute toxicity, Oral (Category 4); Skin corrosion (Category 1B)	1-5
1-Decanaminium, N-Decyl-N,N-dimethyl-, chloride	7173-51-5	Acute toxicity, Oral (Category 3); Skin corrosion (Category 1B); Serious eye damage (Category 1); Acute aquatic toxicity (Category 1); Chronic aquatic toxicity (Category 2)	1-5
Water and other components less than 1% in concentration within this solution. The remaining components of this product are not classified as hazardous in their existing concentrations			Balance

SECTION 4: FIRST AID MEASURES

¹ The exact percentage of composition has been withheld as a trade secret. All relevant physical and health hazards have been declared, in accordance with regulatory requirements.

4.1 DESCRIPTION OF FIRST AID MEASURES

AREA EXPOSED	Product as SOLD	Product at USE DILUTION
Eye Contact	Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention immediately.	Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention if irritation persists.
Skin Contact	Flush area with warm, running water for several minutes. Seek medical attention immediately.	Flush area with warm, running water for several minutes. Seek medical attention if irritation persists.
Inhalation	Obtain fresh air.	Obtain fresh air.
Ingestion	If conscious only: Rinse mouth with water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions.	If conscious only: Rinse mouth with water. Drink several cups of water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions.
Other Recommendations	Wash clothing before reuse.	

4.2 MOST IMPORTANT ACUTE AND CHRONIC EXPOSURE SYMPTOMS

- ACUTE HEALTH EFFECTS:

AREA EXPOSED	Product as SOLD	Product at USE DILUTION
Eye Contact	Corrosive to eye tissue; contact will cause pain, redness, and tissue damage. Chemical burns and blindness may occur.	Diluted product is not anticipated to cause adverse effects under typical circumstances if first aid is rendered promptly. May cause mild eye irritation, especially after prolonged exposure.
Skin Contact	Corrosive to skin tissue; contact will cause pain, redness, and tissue damage. Chemical burns may occur.	No adverse effects anticipated.
Inhalation	Inhalation of sprays, mists may cause coughing, nasal congestion and sore throat.	No adverse effects anticipated.
Ingestion	Corrosive and may cause severe and permanent damage to mouth, throat, and stomach. May be fatal if swallowed.	No adverse effects anticipated.

- CHRONIC HEALTH EFFECTS:

Product as SOLD
None reported.

Product at USE DILUTION
None reported.

- TARGET ORGANS:

Product as SOLD
Skin, eyes.

Product at USE DILUTION
None reported.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

The following information is for both **Product AS SOLD** and **Product at USE DILUTION**.

- GENERAL INFORMATION: For all exposures:** In case of accident, or if you feel unwell, seek medical advice immediately. Take this document and a copy of the label to the healthcare professional.
- RECOMMENDATIONS TO PHYSICIANS:** Treat symptomatically.
- MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** None reported.

SECTION 5: FIREFIGHTING MEASURES

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

5.1 EXTINGUISHING MEDIA

- RECOMMENDED FIRE EXTINGUISHING MEDIA:** Water Spray, Water Jet, Dry Powder, Foam, Carbon Dioxide, or any other.
- UNSUITABLE FIRE EXTINGUISHING MEDIA:** None known.

SECTION 5: FIREFIGHTING MEASURES (Continued)

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

• NFPA FLAMMABILITY CLASSIFICATION:

Classification

NFPA Rating

Product as SOLD



NFPA Classification

Not flammable.

Product at USE DILUTION



Not flammable.

• UNUSUAL HAZARDS IN FIRE SITUATIONS:

Decomposition

Product as SOLD

Generates carbon dioxide, carbon monoxide, hydrogen chloride, ammonia, and nitrogen oxides.

Explosion Sensitivity to Mechanical Impact

Not applicable.

Explosion Sensitivity to Static Discharge

Not applicable.

Product at USE DILUTION

Generates carbon dioxide, carbon monoxide, hydrogen chloride, ammonia, and nitrogen oxides.

Not applicable.

Not applicable.

5.3 ADVICE FOR FIREFIGHTERS

- Self-Contained Breathing Apparatus and full protective equipment for fire response should be worn in any situation. Move containers from fire area if it can be done without risk to personnel. Otherwise, use water spray to keep fire-exposed containers cool. Because this product is a cleaning agent, any equipment that comes in contact with this solution can be rinsed thoroughly with water and then returned to service.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

- RESPONSE TO INCIDENTAL RELEASES:** Personnel who have received basic chemical safety training can generally handle small-scale releases. Gloves and safety glasses must be worn when cleaning-up spills. Use caution during clean-up; contaminated floors and items may be slippery.
- RESPONSE TO NON-INCIDENTAL RELEASES:** Generally, releases of this product will be no larger than the loss of one shipment of material. Subsequently, personnel can follow the instructions for incidental releases. As needed, respond to non-incidental chemical releases of this product (such as the simultaneous destruction of several pallets of this product) by clearing the impacted area and contacting appropriate emergency personnel. In the event that over 5 gallons of this material has spilled, safety goggles with face-shield and air-purifying respirator with High Efficiency Particulate Filter should be worn.
- RESPONSE PROCEDURES FOR ANY RELEASE:** Absorb spilled liquid with polypads or other suitable absorbent materials. Rinse area thoroughly. Because this product is a disinfectant, all items that come in contact with the solution can be returned to service after rinsing.

6.2 ENVIRONMENTAL PRECAUTIONS

- Avoid response actions that can cause a release of a significant amount of product (more than 4 gallons) into the environment. Avoid accidental dispersal of spilled material into soil, waterways and sewers.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

- SPILL RESPONSE EQUIPMENT:** Polypad or other absorbent material.

6.4 REFERENCES TO OTHER SECTIONS

- SECTION 8:** For exposure levels and detailed personal protective equipment recommendations.
- SECTION 13:** For waste handling guidelines.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

ITEM	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Hygiene Practices	Keep out of reach of children. Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of mists and sprays. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately.	Keep out of reach of children. Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of mists and sprays. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately.
Handling Practices	Employees must be appropriately trained to use this product safely as needed. Keep containers closed when not in use. Avoid conditions that create static electrical discharge.	Employees must be appropriately trained to use this product safely as needed. Keep containers closed when not in use.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Storage Practices	Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Empty containers may contain residual liquid; therefore, empty containers should be handled with care.	Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals.
Incompatibilities	See Section 10 (Stability and Reactivity).	See Section 10 (Stability and Reactivity).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

- AIRBORNE EXPOSURE LIMITS: AIRBORNE EXPOSURE LIMITS:**

COMPONENT	ACGIH TLV	OSHA PEL	NIOSH REL	OTHER
Ethanol 64-17-5	1000 ppm (STEL)	1000 ppm (TWA)	1000 ppm (TWA) 3300 ppm (IDLH)	CA PEL: 1000 ppm (TWA)

- BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:** Not established.

8.2 EXPOSURE CONTROLS

- PRODUCT AS SOLD**

Engineering Controls
Respiratory Protection
Hand Protection

Eye Protection
Body Protection

Use in well-ventilated environment.
None needed in normal circumstances of use.
Neoprene, PVC, or butyl gloves are recommended if there is a potential for skin contact. Ensure gloves are intact prior to use.
Safety glasses, if splashes/sprays can occur when using.
None needed in normal circumstances of use.

- IN USE DILUTION**

Personal Precautions

Use in well-ventilated environment. No personal protection is typically required for most circumstances of use. If there is a possibility for extended periods of use of this product, or larger than normal volumes, refer to Recommendations for Use information above.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

8.3 PERSONAL PROTECTION SYMBOLS

Hand Protection
(If skin contact is anticipated)

Eye Protection
(If splashes or sprays can occur)

Product as SOLD



Product at USE DILUTION

No gloves required.

No eye protection required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Appearance	Clear liquid.	Clear, colorless liquid.
Odor	Pleasant.	Pleasant.
Odor Threshold	Not determined.	Not determined.
pH	6.0-8.0	Approximately 7
Melting Point/Freezing Point	< 0°C (32 °F).	Approx. 0°C (32 °F).
Initial Boiling Point/Boiling Range	93.33°C (200 °F).	Approximately 100°C (212°F).
Flash Point	> 93.9°C (201 °F).	Not applicable.
Evaporation Rate (Water = 1)	Approx. 1.0.	Approx. 1.0.
Flammability	Not applicable.	Not applicable.
Upper/Lower Explosive Limits	Not applicable.	Not applicable.
Vapor Pressure	Not determined.	Not determined.
Vapor Density	Not determined.	Not determined.
Relative Density (Density)	1.0 (8.34 lb./gal)	Approx. 1.0.
Solubility	Completely soluble in water.	Completely soluble in water.
Partition Coefficient/n-octanol/water	Not determined.	Not determined.
Autoignition Temperature	Not applicable.	Not applicable.
Decomposition Temperature	Not determined.	Not determined.
Viscosity	Not determined.	Not determined.

9.2 OTHER INFORMATION

- VOC (less water & exempt): Not applicable.
- WEIGHT% VOC: Not applicable.

SECTION 10: STABILITY AND REACTIVITY

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

10.1 REACTIVITY

- Not reactive under typical conditions of use or handling.

10.2 CHEMICAL STABILITY

- Normally stable under standard temperatures and pressures.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

- This product is not self-reactive, water-reactive, or air-reactive.
- This product will not undergo hazardous polymerization.

SECTION 10: STABILITY AND REACTIVITY (Continued)

10.4 CONDITIONS TO AVOID

- Avoid contact with incompatible chemicals.

10.5 INCOMPATIBLE MATERIALS

- Strong oxidizing agents and anionics.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

- Products of thermal decomposition include oxides of carbon (i.e., carbon monoxide and carbon dioxide), hydrogen chloride, ammonia, and nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

• ACUTE TOXICITY:

○ PRODUCT TOXICITY DATA:

- Acute Toxicity Estimate: (Oral): > 2,000 mg/kg
- Acute Toxicity Estimate (Dermal): > 2,000 mg/kg

○ TOXICOLOGY DATA: The following data are available for components of this product.

BENZLKONIUM CHLORIDE

LD50 (oral, rat) = 426 mg/kg

1-DECANAMINIUM, N-DECYL-N,N-DIMETHYL-, CHLORIDE

LD50 (oral, rat) = 84 mg/kg

LD50 (dermal, rat) > 2000 mg/kg

- **DEGREE OF IRRITATION:** This product causes severe skin burns and eye damage. See Section 4 (First Aid Measures) for more details.
- **SENSITIZATION:** The components of this product are not reported to have skin or respiratory sensitization effects.
- **REVIEW OF ACUTE SYMPTOMS AND EFFECTS BY ROUTE OF EXPOSURE:** See Section 2 (Hazards Information) and Section 4 (First Aid Measures) for additional details.

AREA EXPOSED

Eye Contact

Product as SOLD

Corrosive to eye tissue.

Product at USE DILUTION

May cause eye irritation, especially after prolonged exposure.

Skin Contact

Corrosive to skin tissue; contact will cause pain, redness, and tissue damage.

No adverse effects anticipated.

Inhalation

Inhalation of sprays, mists may cause coughing, nasal congestion and sore throat.

No adverse effects anticipated

Ingestion

Corrosive and may cause severe and permanent damage to mouth, throat, and stomach. May be fatal if swallowed.

No adverse effects anticipated

• CHRONIC TOXICITY:

- **CARCINOGENICITY STATUS:** Not applicable.
- **REPRODUCTIVE TOXICITY INFORMATION:** The components of this product are not reported to cause reproductive effects under typical circumstances of exposure.
- **MUTAGENIC EFFECTS:** The components of this product are not reported to cause mutagenic effects under typical circumstances of exposure.
- **SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** Not applicable.
- **ASPIRATION HAZARD:** Not applicable.

• OTHER INFORMATION:

- **TOXICOLOGICALLY SYNERGISTIC PRODUCTS:** None known.
- **ADDITIONAL TOXICOLOGY:** Not applicable.

SECTION 12: ECOLOGICAL INFORMATION

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

12.1 TOXICITY

- Based on available data, this product may be harmful or fatal to contaminated terrestrial or aquatic plants or animals, depending on the volume released into the environment.
- The following aquatic toxicity data are available for components of this product.

BENZALKONIUM CHLORIDE

LC50 (Morone saxatilis): fry, 14100. µg/L/96 hours

1-DECANAMINIUM, N-DECYL-N,N-DIMETHYL-CHLORIDE

LC50 (Brachydanio rerio): 0.49 mg/L - 96 hours

EC50 (Daphnia magna): 0.094 mg/L - 48 hours

12.2 PERSISTENCE AND DEGRADABILITY

- When released into the soil, the components of this product are expected to biodegrade, dissipate in soils via oxidation, or otherwise chemically degrade or photo-decompose via solar radiation.

12.3 BIOACCUMULATIVE POTENTIAL

- This product is not anticipated to bioaccumulate significantly.

12.4 MOBILITY IN SOIL

- It is to be expected this product will have some mobility in soil.

12.5 OTHER ADVERSE EFFECTS

- None reported.

SECTION 13: DISPOSAL CONSIDERATION

13.1 WASTE TREATMENT METHODS

Product as SOLD

Dispose of in accordance with local, State and Federal regulations.

Product at USE DILUTION

Dispose of unused product in accordance with local, State and Federal regulations.

13.2 DISPOSAL CONSIDERATIONS

- EPA RCRA WASTE CODE:** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

SECTION 14: TRANSPORT INFORMATION

14.1 DANGEROUS GOODS BASIC DESCRIPTION AND OTHER TRANSPORT INFORMATION

NOTE: This product is packaged in **LIMITED QUANTITY** volumes for some modes of transport. Follow the requirements for Limited Quantity packagings appropriate to the mode of transport.

- DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:**

UN/NA Number	Proper Shipping Name	Packing Group	Hazard Class	Label	North American Emergency Response Guide #	Marine Pollutant Status
This product is packaged in Limited Quantity volumes. Follow requirements in 49 CFR 173.154				Limited Quantity	Not Applicable	Not Applicable

- CANADIAN TRANSPORTATION INFORMATION:** This product is regulated by Transport Canada as dangerous goods under Canadian transportation standards in Limited Quantity packaging. Refer to above information.
- IATA DESIGNATION:** This product is regulated as dangerous goods by the International Air Transport Association.

UN/NA Number	Proper Shipping Name	Packing Group	Hazard Class	Labels	LIMITED QUANTITY: Packing Instruction (Max. Qty per PKG)	OTHER SHIPMENTS Packing Instruction (Max. Qty per PKG)
UN1760	Corrosive liquids, n.o.s. (Quaternary Ammonium Chloride)	III	8	Corrosive Limited Quantity (Air)	Y841 (1L)	852 (5L)

SECTION 14: TRANSPORT INFORMATION (Continued)

- **IMO DESIGNATION:** This product is regulated as dangerous goods by the International Maritime Organization in Limited Quantity packaging. Refer to following information.

UN/NA Number	Proper Shipping Name	Packing Group	Hazard Class	Label	Max. Qty per PKG	EM-S
This product is packaged in Limited Quantity volumes. Follow guidance in IMO International Maritime Dangerous Goods Code, Section 3.4.				Limited Quantity	5L	FA-SB

14.2 ENVIRONMENTAL HAZARDS

- Not applicable.

14.3 SPECIAL PRECAUTIONS FOR USERS

- Not applicable.

14.4 TRANSPORT IN BULK

- Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT

• OTHER IMPORTANT U.S. REGULATIONS

- **U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21):** Acute Toxicity; Skin Corrosion/Irritation; Serious Eye Damage/Irritation.
- **U.S. CERCLA REPORTABLE QUANTITY (RQ):** Not applicable.
- **U.S. TSCA INVENTORY STATUS:** All components of this product are listed on the TSCA Inventory.
- **U.S. SARA 313:** Not applicable to this product.
- **CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS:** Not applicable.

• INTERNATIONAL REGULATIONS

- **CANADIAN REGULATORY STATUS: CANADIAN REGULATORY STATUS:** The product is classified as hazardous under Hazardous Products Regulations (SOR-2022-272).
 - WHMIS 2015: See section 2.
 - This SDS contains all the information required by the HPR.
- **CANADIAN DSL/NDL INVENTORY STATUS:** The listed components of this product are on the DSL/NDL Inventory.
- **CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITY SUBSTANCES LISTS:** The components of this product are not on the CEPA Priority Substances Lists.

SECTION 16: OTHER INFORMATION

16.1 INDICATION OF CHANGE

- **DATE OF REVISION:** May 25, 2024
- **SUPERCEDES:** June 24, 2022
- **CHANGE INDICATED:** Review and update of regulatory information.

.2 KEY LITERATURE REFERENCES AND SOURCES FOR DATA

- SAFETY DATA SHEETS FOR COMPONENT PRODUCTS.
- Federal OSHA Hazard Communication Standard: 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION (Continued)

16.3 HAZARDOUS MATERIALS CLASSIFICATION SYSTEM

Product as SOLD			Product at USE DILUTION		
Health	3	HMIS Personal Protective Equipment	Health	0	HMIS Personal Protective Equipment Rating:
Flammability	0	Rating: Occupational	Flammability	0	Occupational Use
Physical Hazard	0	Use situations: B- Safety glasses and gloves, if splashes/sprays can be generated.	Physical Hazard	0	situations: No protective equipment is needed under normal circumstances of use and handling.
Protective Equipment	B		Protective Equipment	Not applicable	

16.4 DISCLAIMER

Waxie's Enterprises, LLC, an Envoy Solutions Company (WAXIE), makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of their own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by WAXIE as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does WAXIE assume any liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. WAXIE does not recommend blending this product with any other chemicals. All information, recommendations and data contained herein concerning this product are based upon information available at the time of writing from recognized technical sources.

16.5 ABBREVIATIONS AND ACRONYMS

ALL SECTIONS: OSHA: U.S. Federal Occupational Safety and Health Administration. WHMIS: Canadian Workplace Hazardous Materials Standard. GHS: Globally Harmonized System of Classification of Chemical Substances.

SECTION 3: CAS Number: Chemical Abstract Service Number, which is used by the American Chemical Society to uniquely identify a chemical.

SECTION 5: NFPA: National Fire Protection Association. NFPA FLAMMABILITY CLASSIFICATION: The NFPA uses the flash point (F.P.) and boiling point (BP) to classify flammable or combustible liquids. Class IA: F.P. below 73°F and BP below 100°F. Class IB: F.P. below 73°F and BP at or above 100°F. Class IC: F.P. at or above 73°F and BP at or above 100°F. Class II: F.P. at or above 100°F and below 140°F. Class IIIA: F.P. at or above 140°F and below 200°F. Class IIIB: F.P. at or above 200°F. NFPA HAZARDOUS MATERIALS RATING: This is a rating system used to summarize physical and health hazards to firefighters. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.

SECTION 8: NE: Not established. ACGIH: American Conference of Government Industrial Hygienists; TWA: Time-Weighted Average (over an 8-hour work day); STEL: Short-Term Exposure Limit (15-minute average, no more than 4-times daily and each exposure separated by one-hour minimally); C: Ceiling Limit (concentration not to be exceeded in a work environment). PEL: Permissible Exposure Limit. NIOSH: National Institute of Occupational Safety and Health; REL: Recommended Exposure Limit. ppm: Parts per Million. mg/m³: Milligrams per cubic meter. mppcf: Millions of Particles per Cubic Foot. BEI: Biological Exposure Limit. CA: California - TABLE AC-1 Permissible Exposure Limits for Airborne Contaminants

SECTION 9: pH: Scale (0 to 14) used to rate the acidity or alkalinity of aqueous solutions. For example, a pH value of 0 indicates a strongly acidic solution, pH of 7 indicates a neutral solution, and a pH value of 14 indicates an extremely basic solution. FLASH POINT: Temperature at which a liquid generates enough flammable vapors so that ignition may occur. AUTOIGNITION TEMPERATURE: Temperature at which spontaneous ignition occurs. LOWER EXPLOSIVE LIMIT (LEL): The minimal concentration of flammable vapors in air which will sustain ignition. UPPER EXPLOSIVE LIMIT (UEL): The maximum concentration of flammable vapors in air which will sustain ignition. ≈: Approximately symbol. VOC: Volatile Organic Compound.

SECTION 11: CARCINOGENICITY STATUS: NTP: National Toxicology Program. IARC: International Agency for Research on Cancer. REPRODUCTIVE TOXICITY INFORMATION: Mutagen: Substance capable of causing chromosomal damage to cells. Embryotoxin: Substance capable of damaging the developing embryo in an overexposed female. Teratogen: Substance capable of damaging the developing fetus in an overexposed female. Reproductive toxin: Substance capable of adversely affecting male or female reproductive organs or functions. TOXICOLOGY DATA: LDxx or LCxx: The Lethal Dose or Lethal Concentration of a substance which will be fatal to a given percentage (xx) of exposed test animals by the designate route of administration. This value is used to assess the toxicity of chemical substances to humans. TDxx or TCxx: The Toxic Dose or Toxic Concentration of a substance which will cause an adverse effect to a given percentage (xx) of exposed test animals by the designate route of administration.

SECTION 12: EC50: Effect Concentration (on 50% of study group); BOD: Biological Oxygen Demand. COD: Chemical Oxygen Demand. ThOD: Theoretical Oxygen Demand. TLM: Median Tolerance Limit.

SECTION 13: RCRA: Resource Conservation and Recovery Act. The regulations promulgated under this Act are found in 40 CFR, Sections 260 ff, and define the requirements of hazardous waste generation, transport, treatment, storage, and disposal. EPA RCRA Waste Codes: Defined in 40 CFR Section 261.

SECTION 15: CERCLA: Comprehensive Environmental Response Compensation and Liability Act (a.k.a. "Superfund") and SARA: (Superfund Amendment and Reauthorization Act). The regulations promulgated under this Act are located under 40 CFR 300 ff. and provide "community right-to-know" requirements. TSCA: Toxic Substances Control Act: Rules regulating the manufacture and sale of chemicals found in 40 CFR 700-766. DSL/NDL: Canadian Domestic Substances and Non-Domestic Substances Lists.

SECTION 16: HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATING: This is a rating system used by industry to summarize physical and health hazards to chemical users and was originally developed by the National Paint and Coating Association. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.

Safety Data Sheet (SDS)

*OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to United Nations (UN)
Globally Harmonized System of Classification and Labeling of Chemicals (GHS)*

Printing Date: January 17, 2020

1. Product and Company Identification

Product Identifier: Brillo® Steel Wool Soap Pads (pink and yellow soap-impregnated into steel wool).

Other Designations: Brillo® Lemon Fresh Scent Steel Wool Soap Pads; Brillo® Singles Small Size Steel Wool Pads; Brillo® Basics Small Size Steel Wool Pads; Brillo® Heavy Duty Steel Wool Soap Pads; Brillo® Commercial Steel Wool Soap Pads.

Recommended Uses: For Consumer Use. General Household Cleaning.

Product Description: Soap-impregnated steel wool pads.

Details of the Supplier of the SDS:

Armaly Brands
P.O. Box 611
Walled Lake, MI 48390
www.armalybrands.com

Product Information and Emergency Contact: 1-800-772-1222

2. Hazards Identification

Classification of the Substance or Mixture: This Product is considered hazardous as defined by OSHA Hazard Communications Standard, 29 CFR 1910.1200,

None of the Ingredients in this product are on the IRAC,NTP or OSHA carcinogen list.

Classification: Skin Corrosion/Irritation	Category 2
Eye Damage/Irritation	Category 2B

PITCOGRAM:



Signal Word: WARNING

Hazard statement: Causes Skin Irritation
Causes Eye Irritation

Hazard-determining Components of Labeling: N.A.

Precautionary Statements: Safe when used as directed

Classification System: NFPA/HMIS Scales = 0-Least; 1-Slight; 2-Moderate; 3-High; 4-Extreme

NFPA Rating: Health: 0 Flammability: 0 Solubility: 0 Special Hazard: 0

HMIS Rating: 1

Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to United Nations (UN)
Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Printing Date: January 17, 2020

3. Composition/Information on Ingredients

Chemical Characterization: Solid

Description: Soap-impregnated steel wool pads.

Chemical Name:

Sodium Carbonate: CAS 497-19-8

Fragrance: RR-29431-5

Iron: CAS 7439.89-6

Alfonic: CAS 68002-97-1

Sodium Nitrite: CAS 7632-00-0

Sodium Hydroxide: CAS 1310-73-2

Tallow: CAS 129521-65-9

Pigment: CAS WPS1112134

Cocoamide MEA: CAS 68140-00-1

Water: CAS 7732-18-5

Percentage of ingredients are proprietary.

4. First Aid Measures

Description of First Aid Measures

Inhalation: No information is available.

Skin Contact: Generally, no effect is anticipated. If there is mild skin irritation, wash the area with water. If irritation persists, consult a physician.

Eye Contact: Immediately flush with water for 15 minutes. If irritation persists, contact a physician.

Ingestion: Do Not Ingest. Soap – drink a glass of water to dilute. Steel wool pad – immediately contact a physician or poison control center. For pets contact a veterinarian immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

Potential Health Effects: Contact with eyes may produce irritation and redness; ingestion may cause irritation; improper use may cause mild skin irritation.

Indications of Any Immediate Medical Attention and Special Treatment Needed: No information is available.

5. Firefighting Measures

This product is not flammable or explosive.

Extinguishing Media: N.A.

Suitable Extinguishing Agents: N.A.

Special Hazards Arising From the Substance of Mixture: N.A.

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Advice for Firefighters/Protective Equipment: N.A.

6.

This product does not have an available spill procedure; no special precautions are necessary. Sweep or scoop up product and dispose in approved waste container in compliance with Federal, State and municipal regulations.

Personal Precautions, Protective Equipment and Emergency Procedures: N.A.

Environmental Precautions: N.A.

Methods and Material for Containment and Cleaning Up: N.A.

Reference to Other Sections: N.A.

7. Handling and Storage

Precautions for Safe Handling: Keep away from heat sources.

Information About Protection Against Explosions and Fires: Keep away from heat sources. Product is non-combustible.

Conditions for Safe Storage, Including Any Incompatibilities: N.A.

Storage: Keep away from heat sources.

Requirements to be Met by Storerooms and Receptacles: N.A.

Information About Storage in One Common Storage Facility: N.A.

Further Information About Storage Conditions: N.A.

Specific End Use(s): N.A.

8. Exposure Controls/Personal Protection

This product does not require any exposure control.

Additional Information About Design of Technical Systems: N.A.

Control Parameters: N.A.

Components With Occupational Exposure Limits: N.A.

Additional Information: N.A.

Exposure Controls: N.A.

Personal Protective Equipment: No precautions or protections are necessary. Rubber, nitrile, or neoprene gloves are recommended.

Pictogram:



Recommended

General Protective and Hygienic Measures: N.A.

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Special Requirements: N.A.

9. Physical and Chemical Properties

Appearance: Flexible steel wool pads impregnated with soap.

Odor: Soap-like.

Odor Threshold: N.A.

pH: N.A.

Melting Point/Freezing Point: N.A.

Initial Boiling Point and Boiling Range: N.A.

Flash Point: N.A.

Evaporation Rate: N.A.

Flammability: N.A.

Upper/Lower Flammability or Explosive Limits: N.A.

Vapor Pressure: N.A.

Vapor Density: N.A.

Relative Density: N.A.

Solubility: The soap in this product is completely water soluble. The steel wool is insoluble in water.

Partition Coefficient: N.A.

Auto-ignition Temperature: N.A.

Decomposition Temperature: N.A.

Viscosity: N.A.

10. Stability and Reactivity

Reactivity: Avoid contact with mineral acids and strong oxidizing agents.

Chemical Stability: This product is stable when used and stored under normal conditions (see Section 7 for storage).

Other (e.g., Thermal Decomposition/Conditions to be Avoided; Possibility of Hazardous Reactions; Conditions to Avoid; Incompatible Materials): N.A.

11. Toxicological Information

Primary Irritant Effects

Skin: Mild skin irritation if product is used incorrectly.

Eyes: Mild eye irritation if product is used incorrectly.

Ingestion: N.A.

Lungs: N.A.

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<p>Description of Exposure: Mild skin and eye irritation if product is used incorrectly.</p> <p>Delayed, Immediate, or Chronic Effects From Short-Term Exposure: N.A.</p> <p>Delayed, Immediate, or Chronic Effects From Long-Term Exposure: N.A.</p> <p>Numerical Measures of Toxicity: N.A.</p> <p>Description of Symptoms, Including Exposure From the Lowest to the Most Severe: Mild skin redness or irritation; eye irritation.</p> <p>NTP Listing: N.A.</p> <p>Carcinogen Report: N.A.</p>
<p>IARC Monographs: N.A.</p> <p>Potential Carcinogen as per OSHA: No ingredients in this product are on any carcinogen list (OSHA, IARC, or NTP).</p>
<p>12. Ecological Information (Non-Mandatory)</p>
<p>Toxicity: N.A.</p> <p>Aquatic Toxicity: N.A.</p> <p>Persistence and Degradability: N.A.</p> <p>Bio-accumulative Potential: N.A.</p> <p>Mobility in Soil: N.A.</p> <p>Additional Ecological Information: N.A.</p> <p>General Notes</p> <p style="padding-left: 20px;">Results of PBT and vPvB Assessment: N.A.</p> <p style="padding-left: 20px;">PBT: N.A.</p> <p style="padding-left: 20px;">vPvB: N.A.</p> <p style="padding-left: 20px;">Other Adverse Effects: N.A.</p>
<p>13. Disposal Considerations (Non-Mandatory)</p>
<p>Waste Treatment Methods: N.A.</p> <p>Recommendations for Appropriate Disposal: Dispose in standard waste container unless Federal, State, or municipal regulations mandate otherwise. This product can also be recycled in accordance with Federal, State and municipal regulations.</p> <p>Physical/Chemical Properties That May Affect Disposal: N.A.</p> <p>Language Discouraging Sewage Disposal: This product should not be disposed in a sewer.</p>
<p>14. Transport Information (Non-Mandatory)</p>
<p>UN Number: N.A.</p> <p>UN Proper Shipping Name: N.A.</p>

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Transport Hazard Class(es): N.A.

Packing Group Number With Degree of Hazard: N.A.

Special Precautions: N.A.

15. Regulatory Information (Non-Mandatory)

N.A.

16. Other Information

SDS Preparation Date: January 16, 2015

Last Known Revision Date: Unknown.

Other Useful Information:

List of Acronyms Used [*acronyms provided thus far; add as info gets added to SDS*]

°C: Degrees Celsius

g/cm³: Grams Per Cubic Centimeter

GHS: Globally Harmonized System

HMIS: Hazardous Materials Identification System

IARC: International Agency for Research on Cancer

N.A.: Not Applicable

NFPA: National Fire Protection Agency

NTP: National Toxicology Program

OSHA: United States Department of Labor, Occupational Safety and Health Administration

PBT: Persistent Bio-accumulative Toxins

SDS: Safety Data Sheet

UN: United Nations

vPvB: Very Persistent and Very Bio-accumulative

Det&Rinse

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/10/2019 Version: 2.2

SECTION 1: Identification

1.1. Identification

Product form : Mixtures
Trade name : Det&Rinse
Product code : DB1016A0

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Oven cleaners

1.3. Supplier

Unox Inc
987 Airlie Parkway
Denver, NC 28037
Phone 800-489-8669
Det.Rinse@unox.it

1.4. Emergency telephone number

Emergency number (24h/24) : Tel: 1.866.519.4752 (3E Company)
Access Code: 334577

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Flammable liquids, Category 4	H227	Combustible liquid
Corrosive to metals, Category 1	H290	May be corrosive to metals
Skin corrosion/irritation, Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) :
H227 - Combustible liquid
H290 - May be corrosive to metals
H315 - Causes skin irritation
H318 - Causes serious eye damage

Precautionary statements (GHS-US) :
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P234 - Keep only in original container
P264 - Wash hands, forearms and face thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - If on skin: Wash with plenty of water/...
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a poison center/doctor/...
P321 - Specific treatment (see supplemental first aid instruction on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use media other than water to extinguish
P390 - Absorb spillage to prevent material damage

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P403+P235 - Store in a well-ventilated place. Keep cool
P406 - Store in a corrosion resistant container with a resistant inner liner
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Dipropylene glycol monomethyl ether-	(CAS No) 34590-94-8	1 - 5	Flam. Liq. 4, H227
potassium hydroxide, caustic potash	(CAS No) 1310-58-3	1 - 4.5	Met. Corr. 4, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
Alcohols, C12-14, ethoxylated propoxylated	(CAS No) 68439-51-0	1 - 3	Not classified
D-Glucopyranose, oligomeric, decyl octyl glycosides	(CAS No) 68515-73-1	1 - 3	Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: Self-protection of the first aider.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention immediately.
First-aid measures after skin contact	: Immediately rinse with plenty of water (for at least 15 minutes). Remove contaminated clothing immediately and dispose of safely. Wash contaminated clothing before reuse. Seek medical attention immediately.
First-aid measures after eye contact	: In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.
First-aid measures after ingestion	: Immediately call a POISON CENTER or doctor/ physician. Never give anything by mouth to an unconscious person. Do not induce vomiting.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/injuries after inhalation	: Corrosive to respiratory system. Causes burns.
Symptoms/injuries after skin contact	: Causes severe burns.
Symptoms/injuries after eye contact	: Causes serious eye damage. Corneal opacity. Iris lesions.
Symptoms/injuries after ingestion	: Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

4.3. Immediate medical attention and special treatment, if necessary

Keep under medical supervision for at least 48 hours. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water fog, carbon dioxide (CO2), dry chemical powder, foam.
Unsuitable extinguishing media	: Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard	: Combustible. On burning: release of (highly) toxic gases/vapours.
Explosion hazard	: None known.
Reactivity	: Reacts exothermically with (some) acids. Reacts with (strong) oxidizers.

5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire	: Evacuate the personnel away from the fumes.
Firefighting instructions	: Cool down the containers exposed to heat with a water spray. Move undamaged containers from immediate hazard area if it can be done safely.

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Protective equipment for firefighters	: Extra personal protection: complete protective clothing including self-contained breathing apparatus.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Wear personal protection equipment. Do not attempt to take action without suitable protective equipment.
Emergency procedures	: Immediately contact emergency personnel. Eliminate all ignition sources if safe to do so. Spilled material may present a slipping hazard.

6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing, gloves and eye/face protection. Do not attempt to take action without suitable protective equipment. In presence of product's residue, total impervious protective suits, gloves, and boots must be worn.
Emergency procedures	: Evacuate unnecessary personnel. Eliminate all ignition sources if safe to do so. Spilled material may present a slipping hazard. Avoid inhalation of vapours. Ventilate affected area. Consult an expert.

6.2. Environmental precautions

Avoid release to the environment. Avoid sub-soil penetration. Relevant water authorities should be notified of any large spillage to water course or drain.

6.3. Methods and material for containment and cleaning up

For containment	: Stop leak if safe to do so. Recover small spills with a suitable absorbent, like diatomaceous earth. Recover large spills by pumping (use an explosion proof or hand pump).
Methods for cleaning up	: Ventilate affected area. Wear personal protection equipment. Collect in closed containers for disposal. Wash with plenty of soap and water. Consult the appropriate authorities about waste disposal. Wash contaminated area with large amounts of water.
Other information	: Do not allow uncontrolled discharge of product into the environment.

6.4. Reference to other sections

For disposal of residues refer to section 13 : Disposal considerations. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with skin and eyes. Avoid breathing mist or vapor . Keep away from sources of ignition - No smoking. Take any precaution to avoid mixing with Incompatible materials. Open and handle container with care. Ensure operatives are trained to minimise exposures. Avoid formation of vapours.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Provide adequate ventilation.
Storage conditions	: Store tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight.
Incompatible materials	: Acids, alkali, oxidizing agents. Flammable materials. Peroxides.
Storage temperature	: 5 - 40 °C
Heat and ignition sources	: Keep away from open flames, hot surfaces and sources of ignition.
Information on mixed storage	: Keep away from food, drink and animal feeding stuffs.
Storage area	: Use explosion-proof lighting equipment.
Packaging materials	: stainless steel, Polyvinylchloride (PVC) . Polyethylene, Teflon, Neoprene. Unsuitable material: Do not use aluminum, tin or zinc containers, Copper, Lead, Tin (inorganic compounds).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

potassium hydroxide, caustic potash (1310-58-3)
Not applicable
Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)
Not applicable

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D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)		
Not applicable		
Dipropylene glycol monomethyl ether- (34590-94-8)		
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (ppm)	150 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	600 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	Limit value category (OSHA)	prevent or reduce skin absorption
IDLH	US IDLH (ppm)	600 ppm
NIOSH	NIOSH REL (TWA) (mg/m³)	600 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
NIOSH	NIOSH REL (STEL) (mg/m³)	900 mg/m³
NIOSH	NIOSH REL (STEL) (ppm)	150 ppm
NIOSH	US-NIOSH chemical category	Potential for dermal absorption

8.2. Appropriate engineering controls

Appropriate engineering controls	: Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.
----------------------------------	--

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Safety glasses. Gloves. Protective clothing. An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits.

Materials for protective clothing:

Rubbers, PVC (Polyvinyl chloride). Natural fibres (e.g. cotton). (NIOSH-approved)

Hand protection:

Chemical resistant gloves (nitrile-rubber, PVC, neoprene). Break through time: ≥ 480 min. Thickness of glove material: 0.4-0.5 mm. Use equipment for hand protection tested and approved in accordance with OSHA requirements (29 CFR 1910.138)

Eye protection:

Chemical goggles or face shield with safety glasses. Do not wear contact lenses. Use equipment for eye protection tested and approved in accordance with OSHA requirements (29 CFR 1910.133)

Skin and body protection:

Wear work clothes with long sleeves. Wear suitable protective clothing or Rubber apron. (NIOSH-approved)

Respiratory protection:

An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits. (NIOSH-approved)



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: straw yellow
Odour	: characteristic

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Odour threshold	: No data available
pH	: 14 at 20°C
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 100 °C
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.1 - 1.25 kg/l
Solubility	: soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: Not expected to be explosive as none of the components is classified as explosive.
Oxidising properties	: Not oxidising.

9.2. Other information	
VOC content	: 4.6 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts exothermically with (some) acids. Reacts with (strong) oxidizers.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

Keep away from acids. Oxidizing agent. Peroxides.

10.5. Incompatible materials

Acids. Oxidizing agent. Peroxides. Flammable materials.

10.6. Hazardous decomposition products

On combustion or on thermal decomposition (pyrolysis) releases : Nitrogen oxides (NOx). Carbon dioxide (CO2). Phosphorus oxides. Sulfur oxides. Pyrolysis products, toxic.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

potassium hydroxide, caustic potash (1310-58-3)	
LD50 oral rat	333 mg/kg
ATE US (oral)	333.000 mg/kg bodyweight
Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)	
LD50 oral rat	> 2000 mg/kg
D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)	
LD50 oral rat	> 2000 mg/kg (OECD 423 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)

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Dipropylene glycol monomethyl ether- (34590-94-8)	
LD50 oral rat	5400 mg/kg
LD50 dermal rat	> 13000 mg/kg
ATE US (oral)	5400.000 mg/kg bodyweight
Skin corrosion/irritation	: Causes skin irritation. pH: 14 at 20°C
Serious eye damage/irritation	: Causes serious eye damage. pH: 14 at 20°C
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Corrosive to respiratory system. Causes burns.
Symptoms/injuries after skin contact : Causes severe burns.
Symptoms/injuries after eye contact : Causes serious eye damage. Corneal opacity. Iris lesions.
Symptoms/injuries after ingestion : Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

SECTION 12: Ecological information

12.1. Toxicity

potassium hydroxide, caustic potash (1310-58-3)	
LC50 fish 1	80 mg/l Gambusia affinis
Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)	
LC50 fish 1	1 - 10 mg/l (OECD 203 method)
EC50 Daphnia 1	1 - 10 (OECD 202 method)
EC50 other aquatic organisms 1	> 10000 mg/l Bacteria toxicity
D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)	
LC50 fish 1	> 100 mg/l Brachydario rerio
EC50 Daphnia 1	10 - 100 mg/l
NOEC chronic fish	1.8 mg/l Brachydanio rerio
NOEC chronic crustacea	1 mg/l Daphnia Magna
Dipropylene glycol monomethyl ether- (34590-94-8)	
LC50 fish 1	> 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	1919 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	4168 mg/l Active sludge

12.2. Persistence and degradability

potassium hydroxide, caustic potash (1310-58-3)	
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.
Dipropylene glycol monomethyl ether- (34590-94-8)	
Persistence and degradability	Readily biodegradable.
Biodegradation	96 % 28 day

12.3. Bioaccumulative potential

Det&Rinse	
Bioaccumulative potential	Low bioaccumulation potential.

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potassium hydroxide, caustic potash (1310-58-3)	
Bioaccumulative potential	No bioaccumulation.
Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)	
Log Pow	< 1.77
Bioaccumulative potential	No bioaccumulation.
Dipropylene glycol monomethyl ether- (34590-94-8)	
Log Pow	0.004
Bioaccumulative potential	No bioaccumulation.
12.4. Mobility in soil	
Det&Rinse	
Ecology - soil	Expected to be highly mobile in soil.

12.5. Other adverse effects

Effect on global warming	: No known effects from this product.
GWPmix comment	: No known effects from this product.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Reuse or recycle following decontamination. External recovery and recycling of waste should comply with applicable local and/or national regulations. Recycling is preferred to disposal or incineration.
Product/Packaging disposal recommendations	: Dispose of this material and its container at hazardous or special waste collection point.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT	
Transport document description	: UN1814 Potassium hydroxide, solution, 8, III

UN-No.(DOT)	: UN1814
Proper Shipping Name (DOT)	: Potassium hydroxide, solution
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: III - Medium Danger
Hazard labels (DOT)	: 8 - Corrosive



DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Special Provisions (49 CFR 172.102)	: B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154

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DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 52 - Stow "separated from" acids
Emergency Response Guide (ERG) Number	: 154
Other information	: No supplementary information available.

Transportation of Dangerous Goods

Transport by sea

Transport document description (IMDG)	: UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, III
UN-No. (IMDG)	: 1814
Proper Shipping Name (IMDG)	: POTASSIUM HYDROXIDE SOLUTION
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: III - substances presenting medium danger
Limited quantities (IMDG)	: 5 L

Air transport

Transport document description (IATA)	: UN 1814 Potassium hydroxide solution, 8, III
UN-No. (IATA)	: 1814
Proper Shipping Name (IATA)	: Potassium hydroxide solution
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:		
potassium hydroxide, caustic potash	CAS No 1310-58-3	1 - 4.5%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable minimum concentration as specified in 40 CFR §372.38(a) 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.

Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)

EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).
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15.2. International regulations

CANADA

No additional information available

Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)	
Listed on the Canadian DSL (Domestic Substances List)	
D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)	
Listed on the Canadian DSL (Domestic Substances List)	
Dipropylene glycol monomethyl ether- (34590-94-8)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

No additional information available

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D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)
Listed on the EU NLP (No Longer Polymers) inventory
Dipropylene glycol monomethyl ether- (34590-94-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
D-Glucopyranose, oligomeric, decyl octyl glycosides (68515-73-1)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on Turkish inventory of chemical
Dipropylene glycol monomethyl ether- (34590-94-8)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Canadian IDL (Ingredient Disclosure List) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on Turkish inventory of chemical

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Other information	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product.
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Full text of H-statements:

H227	Combustible liquid
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation

Abbreviations and acronyms:

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SDS	Safety Data Sheet
	CAS - Chemical Abstracts Service
	GHS - Globally Harmonised System
	CSR - Chemical Safety Report
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
	PVC (Polyvinyl chloride).
PNEC	Predicted No-Effect Concentration
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product