

FREMONT

WATER SOLUTIONS

FREMONT BWT 4321 Boiler Water Treatment

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/01/2015

Supersedes: 12/26/2010

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

1.1. Product identifier

Trade name : FREMONT BWT 4321 Boiler Water Treatment
Product form : Mixture

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

Use of the substance/mixture : Boiler water treatment

1.3. Details of the supplier of the safety data sheet

FREMONT INDUSTRIES, INC.
4400 Valley Industrial Blvd. N.
P.O. Box 67
Shakopee, MN 55379-0067

1.4. Emergency telephone number

Emergency number : (952) 445-4121
CHEMTREC: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Corr. 1A H314

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS05

Signal word (GHS-US)

: **Danger**

Hazard statements (GHS-US)

: H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS-US)

: P260 - Do not breathe mists
P264 - Wash skin thoroughly after handling
P280 - Wear eye protection, face protection, protective clothing, protective gloves
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
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
P321 - Specific treatment (see first aid instructions on this label)
P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P501 - Dispose of contents/container to licensed waste handling facility

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

FREMONT BWT 4321 Boiler Water Treatment

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6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mists. Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use.

Incompatible products

: Strong oxidizers. Strong acids.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Potassium hydroxide (1310-58-3)	
ACGIH Ceiling (mg/m ³)	2 mg/m ³
OSHA PEL (Ceiling) (mg/m ³)	2 mg/m ³ vacated

8.2. Exposure controls

Appropriate engineering controls

: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

: Gloves. Protective goggles. Face shield. Protective clothing. Respiratory protection of the dependent type.



Hand protection

: Protective gloves made of rubber.

Eye protection

: Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection

: Corrosionproof clothing.

Respiratory protection

: An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Dark brown.
Odor	: Sweet
Odor Threshold	: No data available
pH	: 12.5 - 14
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.18
Solubility	: Complete solubility in water.
Log Pow	: No data available
Log Kow	: No data available

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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other adverse effects : No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Transport document description

: UN1760, CORROSIVE LIQUIDS, N.O.S. (POTASSIUM HYDROXIDE), 8, PGII

UN-No.(DOT)

: 1760

DOT NA no.

UN1760

14.2. UN proper shipping name

DOT Proper Shipping Name

: Corrosive liquids, n.o.s.
(Potassium hydroxide)

Department of Transportation (DOT) Hazard Classes

: 8 - Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT)

: 8 - Corrosive substances



Packing group (DOT)

: II - Medium Danger

14.3. Additional information

Other information

: No supplementary information available.

Overland transport

No additional information available

Transport by sea

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

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 1 L
(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 30 L

SECTION 15: Regulatory information

15.1. US Federal regulations

FREMONT BWT 4321 Boiler Water Treatment

All chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

Potassium hydroxide (1310-58-3)

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

Listed on SARA Section 313 (Specific toxic chemical listings)

RQ (Reportable quantity, section 304 of EPA's List of Lists) :

1000 lb

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

Boiler Water Treatment

Fremont BWT 4231 Boiler Water Treatment is a liquid, "3 in 1" formulation containing phosphate cycle boiler water treatment, sulfite-based oxygen scavenger, and neutralizing amine return line treatment components. BWT 4231 is intended for the control of scale formation, deposition and oxidative pitting corrosion of boiler and pre-boiler components and the control of corrosion of return line components of steam boiler systems operating at pressures up to 600 psig.

Fremont BWT 4231 is compliant with USDA regulations for use in federally inspected meat and poultry facilities.

Fremont BWT 4231 is acceptable to the FDA for the treatment of boilers producing steam which contacts food, excluding milk and milk products, in accordance with terms of the Code of Federal regulations, CFR 21, Section 173.310, Boiler Water Additives.

Physical Characteristics:

Description: Dark brown liquid with ammoniaical odor

Density: 9.51 lbs./gallon

Specific gravity: 1.14

pH: 12.5-14

Flash Point: >200°F (Setaflash)

Product Application: BWT 4231 feed rate is dependent upon feedwater chemistry and physical equipment characteristics. Please consult your Fremont Account Manager for the proper product application dosage.

BWT 4231 may be fed with other boiler treatment products to the feedwater or to the boiler. For maximum efficiency, feed this product to the feedwater line, downstream of the feedwater pump.

CAUTION: Harmful if swallowed. Causes alkali burns. Avoid skin and eye contact. Avoid breathing mist or vapor. Keep container closed. Contains: Potassium Hydroxide, Tetrasodium EDTA, Sodium Sulfite, Diethylaminoethanol, Sodium Carbonate, Sodium Lignosulfonate, Acrylamide – Sodium Acrylate Resin, Poly (acrylic acid-co-hypophosphite) – Sodium Salt.

Safety and First Aid:

EYES: Flush immediately with cool water for 15 minutes. Contact physician immediately.

SKIN: Flush immediately with cool water for 15 minutes. Call physician immediately.

INHALATION: Remove to fresh air. If any irritation persists, call physician immediately.

INGESTION: DO NOT INDUCE VOMITING. If conscious, give large amounts of water, citrus juice, or

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WATER SOLUTIONS

FREMONT 9106 Cooling Water Dispersant

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/01/2015

Supersedes: 01/28/2009

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

1.1. Product identifier

Trade name : FREMONT 9106 Cooling Water Dispersant
Product form : Mixture

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

Use of the substance/mixture : Cooling Water Treatment

1.3. Details of the supplier of the safety data sheet

FREMONT INDUSTRIES, INC.
4400 Valley Industrial Blvd. N.
P.O. Box 67
Shakopee, MN 55379-0067

1.4. Emergency telephone number

Emergency number : (952) 445-4121
CHEMTREC: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Irrit. 2 H315
Eye Irrit. 2A H319
Skin Sens. 1 H317

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US)

Warning

Hazard statements (GHS-US)

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

Precautionary statements (GHS-US)

P261 - Avoid breathing vapors, spray, mist
P264 - Wash skin thoroughly after handling
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear protective gloves, protective clothing, face shield, eye 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
P321 - Specific treatment (see first aid instructions on this label)
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P337 + P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P501 - Dispose of contents/container to licensed waste handling facility

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

FREMONT 9106 Cooling Water Dispersant

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.3. Methods and material for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe vapor or mists. Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2,4-Pentanediol, 2-methyl- (107-41-5)	
ACGIH Ceiling (ppm)	25 ppm
OSHA PEL (Ceiling) (mg/m³)	125 mg/m³
OSHA PEL (Ceiling) (ppm)	25 ppm

8.2. Exposure controls

- Personal protective equipment : Safety glasses. Gloves.



- Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Suggested glove materials are: Natural rubber ("latex"), Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.
- Eye protection : Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.
- Skin and body protection : Corrosionproof clothing.
- Respiratory protection : Where excessive vapor, mist, or dust may result, use approved NIOSH respiratory protection equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Color : Amber
- Odor : Ammonia-like.
- Odor Threshold : No data available
- pH : 8 - 9
- Relative evaporation rate (butyl acetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : 100 °C (212°F)
- Flash point : 121 °C (250°F)
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : No data available
- Vapor pressure : No data available
- Relative vapor density at 20 °C : No data available

FREMONT 9106 Cooling Water Dispersant

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations

Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Additional information

Other information

No supplementary information available.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

FREMONT 9106 Cooling Water Dispersant

All chemical substances in this product are listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances Control Act) Inventory

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

2,4-Pentanediol, 2-methyl- (107-41-5)

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

15.2. International regulations

CANADA

2,4-Pentanediol, 2-methyl- (107-41-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

15.2.2. National regulations

2,4-Pentanediol, 2-methyl- (107-41-5)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on KECI (Chemical Inventory of Korea)

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WATER SOLUTIONS

FREMONT 9917 Closed System Treatment

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/01/2015

Supersedes: 12/30/2014

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

1.1. Product identifier

Trade name : FREMONT 9917 Closed System Treatment
Product form : Mixture
Other means of identification : Oxidizer

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

Use of the substance/mixture : Closed System Treatment

1.3. Details of the supplier of the safety data sheet

FREMONT INDUSTRIES, INC.
4400 Valley Industrial Blvd. N.
P.O. Box 67
Shakopee, MN 55379-0067

1.4. Emergency telephone number

Emergency number : (952) 445-4121
CHEMTREC: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Irrit. 2 H315
Eye Irrit. 2A H319
Repr. 1B H360

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS07



GHS08

Signal word (GHS-US)

: **Danger**

Hazard statements (GHS-US)

: H315 - Causes skin irritation
H319 - Causes serious eye irritation
H360 - May damage fertility or the unborn child

Precautionary statements (GHS-US)

: P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P264 - Wash hands, forearms and face, clothing thoroughly after handling
P280 - Wear eye protection, face protection, protective clothing, protective gloves
P302+P352 - If on skin: Wash with plenty of water spray
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
P321 - Specific treatment (see first aid on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P405 - Store locked up
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

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

FREMONT 9917 Closed System Treatment

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Sweep or shovel spills into appropriate container for disposal.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Neutralize residue with weak acid and flush to drain with plenty of water. Product may create slip hazard. Wash spill area thoroughly with plenty of soap and water. If slipperiness remains, apply additional dry-sweeping compound. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Provide good ventilation in process area to prevent formation of vapour. Do not breathe vapours, mist. Avoid spilling the product, as this might cause danger of slippage and falls. 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

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

Storage temperature : Room Temperature

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Potassium hydroxide (1310-58-3)	
ACGIH Ceiling (mg/m ³)	2 mg/m ³
OSHA PEL (Ceiling) (mg/m ³)	2 mg/m ³ vacated
Sodium nitrite (7632-00-0)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
Boric acid (HBO₂), sodium salt, tetrahydrate (10555-76-7)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
1,2,3-Benzotriazole (95-14-7)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
Tetrasodium EDTA (64-02-8)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established

8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment : Protective clothing. Safety glasses. Gloves.



Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Change contaminated gloves immediately. Gloves should be classified under Standard EN 374 or ASTM F1296. Suitable gloves for this specific application can be recommended by the glove supplier. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

FREMONT 9917 Closed System Treatment

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Sodium nitrite (7632-00-0)	
ATE CLP (oral)	85.000 mg/kg bodyweight
ATE CLP (vapours)	5.500 mg/l/4h
ATE CLP (dust,mist)	5.500 mg/l/4h
Potassium Carbonate (584-08-7)	
LD50 oral rat	1870 mg/kg
1,2,3-Benzotriazole (95-14-7)	
LD50 oral rat	500 - 965 mg/kg
LC50 inhalation rat (mg/l)	1910 mg/m³ 3 h
Tetrasodium EDTA (64-02-8)	
LD50 oral rat	1658 mg/kg
Sodium hydroxide (1310-73-2)	
LD50 dermal rabbit	1350 mg/kg
Sodium tetraborate decahydrate (1303-96-4)	
LD50 oral rat	5.66 g/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2 g/m³ 4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: May damage fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.
Chronic symptoms	: May damage fertility. May damage the unborn child.

SECTION 12: Ecological information

12.1. Toxicity

Sodium nitrite (7632-00-0)	
LC50 fishes 1	0.19 mg/l 96 Hr Oncorhynchus mykiss [flow-through] (juvenile)
LC50 fish 2	0.092 - 0.13 mg/l 96 Hr Oncorhynchus mykiss [flow-through]

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

FREMONT 9917 Closed System Treatment

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Sodium hydroxide (1310-73-2)

State or local regulations

RTK - U.S. - Massachusetts - Right To Know List
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
RTK - U.S. - Pennsylvania - RTK (Right to Know) List

Sodium tetraborate decahydrate (1303-96-4)

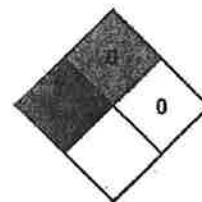
State or local regulations

RTK - U.S. - Massachusetts - Right To Know List
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
RTK - U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Indication of changes : Revision 1.0: New SDS Created.
Revision date : 4/30/2015
Other information : Author: OAB.

NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard : 0 - Materials that will not burn.
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 3
Flammability : 0
Physical : 0
Personal Protection : Splash goggles, Gloves, Synthetic apron, Dust & vapor respirator

FREMONT'S PRODUCTS ARE SOLD "AS IS." FREMONT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO ITS PRODUCTS OR RELATED SERVICES. ALL SUCH EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE SPECIFICALLY DISCLAIMED.



CLOSED SYSTEM TREATMENT

Fremont 9917 is an effective, economical treatment designed to protect closed loop cooling and/or heating systems from scale or deposit formation and corrosion of ferrous and cuprous metals. Fremont 9917 employs a blend of polymeric scale retardants, nitrite, molybdate, and triazole corrosion inhibitors.

Fremont 9917 is compatible with glycol and alcohol containing freeze point depressants.

PHYSICAL CHARACTERISTICS:

Form:	Liquid
Color:	Yellow/amber
Weight Per Gallon:	9.26 lbs./gal.
Specific Gravity:	1.11
1% pH:	Approximately 10.8
Freeze/Thaw Stability:	Excellent

DOSAGE: Proper dosage of Fremont 9917 varies with system parameters present. Dosage is normally between 5 and 10 gallons Fremont 9917 per 1000 gallons of system water. Nitrite residuals are maintained between 300 and 600 mg/l. Consult your Fremont Account Manager for exact dosage requirements.

HAZARDS: Fremont 9917 is alkaline and may cause irritation to eyes and skin.

CAUTION: Alkalinity irritating to skin, eyes and nose. Harmful if ingested. Wear safety glasses and glove when handling concentrate.

FIRST AID: Skin - wash with soap and water. If irritation develops, see physician. Eyes - flush with plenty of water for 15 minutes and see physician immediately. Inhalation - remove to fresh air and if irritation persists see physician. Ingestion - drink plenty of water and/or citrus juice and see physician immediately. Refer to MSDS for additional information.

STORAGE AND HANDLING: Wear protective equipment when handling concentrate. Avoid freezing. If frozen, slowly return to room temperature and stir well to dissolve before using. Keep container closed when not in use.

FREMONT'S PRODUCTS ARE SOLD "AS IS." FREMONT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO ITS PRODUCTS OR RELATED SERVICES. ALL SUCH EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE SPECIFICALLY DISCLAIMED.

Issued 12-30-14, supersedes 06-09-09 - Lab

FREMONT

WATER SOLUTIONS

FREMONT 9945A Closed System Treatment

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/01/2015

Supersedes: 06/06/2008

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

1.1. Product identifier

Trade name : FREMONT 9945A Closed System Treatment
Product form : Mixture
Other means of identification : Acid

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

Use of the substance/mixture : Closed System Treatment

1.3. Details of the supplier of the safety data sheet

FREMONT INDUSTRIES, INC.
4400 Valley Industrial Blvd. N.
P.O. Box 67
Shakopee, MN 55379-0067

1.4. Emergency telephone number

Emergency number : (952) 445-4121
CHEMTREC: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Irrit. 2 H315
Eye Irrit. 2A H319
Skin Sens. 1 H317
Repr. 2 H361
STOT RE 2 H373

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS07



GHS08

Signal word (GHS-US)

: **Warning**

Hazard statements (GHS-US)

: H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H361 - Suspected of damaging fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US)

: P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe vapours, mist
P261 - Avoid breathing vapours, mist
P264 - Wash hands, forearms and face, clothing thoroughly after handling
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear eye protection, face protection, protective clothing, protective gloves
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
P308+P313 - If exposed or concerned: Get medical advice/attention
P314 - Get medical advice/attention if you feel unwell
P321 - Specific treatment (see first aid instructions on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P362+P364 - Take off contaminated clothing and wash it before reuse

FREMONT 9945A Closed System Treatment

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.1.1. For non-emergency personnel

- Protective equipment : Wear Protective equipment as described in Section 8.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Self-contained breathing apparatus. Wear suitable protective clothing, gloves and eye or face protection.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Sweep or shovel spills into appropriate container for disposal.
Methods for cleaning up : Wear suitable protective clothing. Soak up residue with an absorbent such as clay, sand or other suitable material. Product may create slip hazard.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wear personal protective equipment. Do not handle until all safety precautions have been read and understood. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour. 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

- Storage conditions : Keep container tightly closed in a cool, dry, and well-ventilated place.
Storage temperature : Room Temperature

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Phosphoric acid (7664-38-2)	
ACGIH TWA (mg/m³)	1
ACGIH STEL (mg/m³)	3
OSHA PEL (TWA) (mg/m³)	1
OSHA PEL (STEL) (mg/m³)	3
Phosphorous acid [P(OH)3] (10294-56-1)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
Boric acid (HBO2), sodium salt, tetrahydrate (10555-76-7)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established

8.2. Exposure controls

- Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

- Personal protective equipment : Protective clothing. Protective goggles. Gloves.



- Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

- Eye protection : Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

- Skin and body protection : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

- Respiratory protection : Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

FREMONT 9945A Closed System Treatment

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Phosphorous acid [P(OH)3] (10294-56-1)	
ATE CLP (oral)	500.000 mg/kg bodyweight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.
Chronic symptoms	: May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities.
No discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Additional information

Other information : No supplementary information available.

Overland transport

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

FREMONT 9945A Closed System Treatment

All components of this product are listed on the TSCA Inventory or are exempt

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

WATER SOLUTIONS

FREMONT 9945B Closed System Treatment

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 02/01/2015 Supersedes: 06/06/2008

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

1.1. Product identifier

Trade name : Fremont 9945B Closed System Treatment
Other means of identification : Base

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

Use of the substance/mixture : Closed System Treatment

1.3. Details of the supplier of the safety data sheet

FREMONT INDUSTRIES, INC.
4400 Valley Industrial Blvd. N.
P.O. Box 67
Shakopee, MN 55379-0067

1.4. Emergency telephone number

Emergency number : (952) 445-4121
CHEMTREC: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Met. Corr. 1 H290
Skin Irrit. 2 H315
Eye Irrit. 2A H319

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS05

Signal word (GHS-US)

Warning

Hazard statements (GHS-US)

H290 - May be corrosive to metals
H315 - Causes skin irritation
H319 - Causes serious eye irritation

Precautionary statements (GHS-US)

P234 - Keep only in original container
P264 - Wash hands, forearms and face thoroughly after handling
P280 - Wear eye protection, protective clothing, protective gloves
P302+P352 - If on skin: Wash with plenty of water and soap.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P321 - Specific treatment (see first aid on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P390 - Absorb spillage to prevent material damage
P406 - Store in corrosive resistant container with a resistant inner liner

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

FREMONT 9945B Closed System Treatment

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.3. Methods and material for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Wear suitable protective clothing. Neutralize residue with weak acid and flush to drain with plenty of water. Product may create slip hazard. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid contact with eyes. Do not eat, drink or smoke when using this product. 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

- Storage conditions : Keep container tightly closed and dry. Keep in a cool, well-ventilated place away from acids. Keep container closed when not in use.
- Storage temperature : room temperature

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Potassium hydroxide (1310-58-3)	
ACGIH Ceiling (mg/m ³)	2
OSHA PEL (Ceiling) (mg/m ³)	2 vacated
Sodium silicate (1344-09-8)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established

8.2. Exposure controls

- Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

- Personal protective equipment : Gloves. Protective goggles.



- Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

- Eye protection : Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

- Skin and body protection : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

- Respiratory protection : Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear, colorless liquid.
- Color : No data available
- Odor : No data available
- Odor Threshold : No data available
- pH : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available

FREMONT 9945B Closed System Treatment

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Do not discharge to public wastewater systems without permit of pollution control authorities.
No discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with DOT

Not hazardous for transport

Additional information

Other information

: No supplementary information available.

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Fremont 9945B Closed System Treatment

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

Potassium hydroxide (1310-58-3)

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists) :

1000 lb

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

Sodium silicate (1344-09-8)

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

15.2. International regulations

No additional information available.

15.3. US State regulations

California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Indication of changes

: Revision 1.0: New SDS Created.

Revision date

: 02/11/2015

Other information

: Author: BCS.

SAFETY DATA SHEET



Game Time Cleaner (Diluted 1: 64)

697 DIL

Section 1. Identification

GHS product identifier : Game Time Cleaner (Diluted 1: 64)
Other means of identification : Not available.
Product type : Liquid.

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

Not applicable.

Supplier's details : Betco Corporation
1001 Brown Avenue
Toledo, OH 43607
www.betco.com
888-462-3826

Emergency telephone number (with hours of operation) : Chemtrec 800-424-9300 (24 Hour)

Section 2. Hazards identification

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

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : Not available.

AS number/other identifiers

CAS number : Not applicable.
Product code : 697 DIL

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

Section 5. Fire-fighting measures

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

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

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 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.
Viscosity	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Section 12. Ecological information

toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

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

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

Section 15. Regulatory information

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	0
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
Not classified.	



#1697

CH515555C

Safety Data Sheet

Issue date 21-Oct-2014

Version 1

1. Identification of the Substance/Preparation and of the Company/Undertaking**Product Identifier**

Product name

SCHILLING SUPPLY COMPANY GLASS CLEANER

Chemical name

7-7694-1

Other means of Identification

Product code

FG 437-3459-4100

Synonyms

Glass Cleaner

Recommended use of the chemical and restrictions on use

Recommended Use

Glass surfaces.

Uses advised against

DO NOT USE ON FLOORS

Details of the supplier of the safety data sheet

Supplier Address

Schilling Supply Company

P.O. Box 369

Lacrosse, WI 54602

800-888-1885

Manufacturer Address

Chase Products Co.

2727 Gardner Road

Broadview, IL 60155

708-273-1121

Emergency Telephone Number

Company Phone Number

708-865-1000

24 Hour Emergency Phone Number

1-800-255-3924

Emergency telephone

ChemTel 1-800-255-3924

2. Hazards Identification**Classification**

Acute toxicity - Inhalation (Gases)

Category 4

Serious eye damage/eye irritation

Category 2

Gases Under Pressure

liquefied gas

Label Elements**EMERGENCY OVERVIEW****WARNING****hazard statements**

HARMFUL IF INHALED

Causes serious eye irritation

Contains gas under pressure; may explode if heated



Appearance Clear liquid that will be aerosolized.

Physical State Aerosol

Odor Perfumed.

FG 437-3459-4100 SCHILLING SUPPLY COMPANY GLASS CLEANER

Symptoms

Acute, Deliberate inhalation of concentrated vapor or mist may cause headaches. Prolonged and repeated contact with the eyes may cause mild irritation. Chronic: 2-butoxyethanol may cause hemolysis of the blood cells leading to possible liver and kidney damage.

Indication of any immediate medical attention and special treatment needed

Note to physicians

None needed.

5. Fire-fighting measures

Suitable extinguishing media

Dry chemical, CO2 or water spray.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

This product is under pressure. Water spray may be used to cool cans in the vicinity of fire or excessive heat to prevent the explosion of the cans.

Hazardous combustion products Thermal decomposition may release carbon monoxide and carbon dioxide.

Explosion data

Sensitivity to Mechanical Impact Contents under pressure, keep away from heat and open flame.

Sensitivity to Static Discharge Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Protective equipment and precautions for firefighters

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use with adequate general or local exhaust ventilation.

For emergency responders

Remove all sources of ignition.

Environmental Precautions

Environmental Precautions

See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment

Provide adequate ventilation to area being treated. Soak up spills with chemically inert, absorbent material.

Methods for cleaning up

Clean contaminated surface thoroughly.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling

Do not deliberately inhale vapor or spray mist. Avoid getting spray into eyes.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Store in a cool, dry place away from heat and open flame. Keep out of reach of children. AEROSOL STORAGE LEVEL I (NFPA-30B).

Incompatible Materials

Avoid heat, open flame and contact with strong oxidizers.

FG 437-3459-4100 SCHILLING SUPPLY COMPANY GLASS CLEANER

Autoignition Temperature
Decomposition temperature
Kinematic viscosity
Dynamic viscosity
Explosive properties
Oxidizing properties

No information available
No information available

No information available
No information available
No information available
No information available

Other Information

Softening point
Molecular weight
VOC content (%)
Density
Bulk Density

No information available
No information available
9.08%
8.26 - 8.35 lb/gal
No information available

10. Stability and Reactivity

Reactivity

Not applicable Not applicable

Chemical stability

Stable.

Possibility of hazardous reactions

Temperatures above 120 F may cause cans to burst with force.

hazardous polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Temperatures above 120 F.

Incompatible Materials

Avoid heat, open flame and contact with strong oxidizers.

Hazardous decomposition products

Thermal decomposition may yield gases like carbon monoxide and carbon dioxide.

11. Toxicological Information

Information on likely routes of exposure

Product Information

Primary routes of entry: Eye contact, skin contact, inhalation, ingestion (possible, but consider unlikely).

inhalation

Deliberate inhalation of concentrated vapor or mist may cause headache, dizziness and nausea.

Eye Contact

Can cause irritation after contact with eyes.

Skin contact

May cause skin irritation after contact with skin. 2-Butoxyethanol penetrates skin readily. Frequent or wide spread contact may results on skin absorption of potentially harmful amounts.

INGESTION

This is an aerosol product, ingestion is unlikely to occur. 2-Butoxyethanol may cause red blood cell hemolysis and possible liver and kidney damage.

Chemical name	Oral LD50	dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
2-Butoxyethanol 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
N-Butane 106-97-8	-	-	= 658 g/m ³ (Rat) 4 h

FG 437-3459-4100 SCHILLING SUPPLY COMPANY GLASS CLEANER

Propane 74-98-6	2.3
--------------------	-----

Other adverse effects No information available

13. Disposal Considerations

Waste treatment methods

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

Contaminated packaging Pressurized container. Do not pierce or burn, even after use. Do not puncture or incinerate container. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions.

14. Transport Information

DOT	Limited quantity (LQ) Glass Cleaner
UN/ID no	UN1950
Proper Shipping Name	Limited quantity (LQ)
Hazard Class	2.1
Marine pollutant	This product does not contain marine pollutants.

15. Regulatory Information

International Inventories

TSCA All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

DSL All ingredients are listed or are excluded from listing on the DSL.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372. This information must be included in all SDSs that are copied and distributed for this material.

Chemical name	CAS No	weight-%	SARA 313 - Threshold Values %
2-Butoxyethanol - 111-76-2	111-76-2	1-5	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

SAFETY DATA SHEET

1. Identification

Product identifier
Product list
Other means of identification
Recommended use
Recommended restrictions
Manufacturer/Importer/Supplier/Distributor information
Company name
Address
Telephone
E-mail
Emergency phone number

Gentle Foam Soap, Dye-Free Fragrance Free
Pacific Blue Ultra™ Gentle Foam Soap, Fragrance Free SKU 43714
Pacific Blue Ultra™ Automated Gentle Foam Soap, Fragrance Free SKU 43716
Pacific Blue Select™ Gentle Foam Soap, Fragrance Free SKU 44723
Marathon® Manual Gentle Foam Soap Refill, Fragrance Free SKU 7671200
Marathon® Automated Gentle Foam Soap, Fragrance Free, Dye Free SKU 7571100
None.
Hand cleanser
This product is regulated as a cosmetic in the US and is intended for personal care use.
Manufactured for:
Georgia-Pacific Consumer Products LP
133 Peachtree Street, NE
Atlanta, GA 30303
Technical Information: 866.435.5647
SDS Request: 404.652.5119
MSDSREQ@GAPAC.com
Chemtrec - Emergency: 800.424.9300

2. Hazard(s) identification

Physical hazards
Health hazards
Environmental hazards
OSHA defined hazards
Label elements
Hazard symbol
Signal word
Hazard statement
Precautionary statement
Prevention
Response
Storage
Disposal
Hazard(s) not otherwise classified (HNOC)
Supplemental information

Not classified.
Eye irritation Category 2B
Hazardous to the aquatic environment, acute hazard Category 3
Not classified.
None.
Warning
Causes eye irritation. Harmful to aquatic life.
Wash thoroughly after handling large quantities. Observe good industrial hygiene practices.
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.
Store away from incompatible materials.
Dispose of waste and residues in accordance with local authority requirements.
None known.
None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
GLYCERIN		56-81-5	1 - 5
SODIUM LAURETH SULFATE		68585-34-2	1 - 5
COCAMIDOPROPYL BETAINE		61789-40-0	0.1 - 1
Other components below reportable levels			80 - 100

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

Components	Type	Value	Form
		15 mg/m3	Total dust.
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Appropriate engineering controls	General ventilation normally adequate.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	None necessary under normal conditions of use. Wear safety glasses or goggles if handling large quantities.		
Skin protection			
Hand protection	None necessary under normal conditions of use. Wear appropriate gloves if handling large quantities.		
Other	None necessary under normal conditions of use.		
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Colorless to pale yellow, dye free.

Odor Fragrance Free

Odor threshold Not available.

pH 5 - 6

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point Not available.

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 1.01

Solubility(ies)

Solubility (water) Water Soluble

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

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

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

12. Ecological information

Ecotoxicity

Harmful to aquatic life.

Product		Species	Test Results
Gentle Foam Soap, Dye-Free Fragrance Free			
Aquatic			
Crustacea	EC50	Daphnia	77.6641 mg/l, 48 hours estimated
<i>Acute</i>			
Fish	LC50	Fish	111.212 mg/l, 96 hours estimated
Components			
Species			
Test Results			
COCAMIDOPROPYL BETAINE (CAS 61789-40-0)			
Aquatic			
<i>Acute</i>			
Fish	LC50	Fish	0.28 - 2.8 mg/l, 96 Hours
<i>Chronic</i>			
Fish	NOEC	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	16 mg/l, 28 days
GLYCERIN (CAS 56-81-5)			
Aquatic			
Fish	LC50	Fish	> 100 mg/l, 96 hours
SODIUM LAURETH SULFATE (CAS 68585-34-2)			
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	2.33 - 4.81 mg/l, 48 hours

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

GLYCERIN -1.76

Mobility in soil No data available.

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

13. Disposal considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations. This product, if discarded, is not considered a hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261. If processing, use, or contamination alters the material, the waste must be tested using methods described in 40 CFR 261 to determine if it meets applicable definitions of hazardous wastes.

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 Empty packaging/container can be disposed in accordance with all applicable regulations.

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.

SAFETY DATA SHEET

1. Identification

Product identifier
Product list
Other means of identification
Recommended use
Recommended restrictions
Manufacturer/Importer/Supplier/Distributor information
Company name
Address
Telephone
E-mail
Emergency phone number

Gentle Foam Soap, Dye-Free Fragrance Free
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Pacific Blue Select™ Gentle Foam Soap, Fragrance Free SKU 44723
Marathon® Manual Gentle Foam Soap Refill, Fragrance Free SKU 7671200
Marathon® Automated Gentle Foam Soap, Fragrance Free, Dye Free SKU 7571100
None.
Hand cleanser
This product is regulated as a cosmetic in the US and is intended for personal care use.
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Physical hazards
Health hazards
Environmental hazards
OSHA defined hazards
Label elements
Hazard symbol
Signal word
Hazard statement
Precautionary statement
Prevention
Response
Storage
Disposal
Hazard(s) not otherwise classified (HNOC)
Supplemental information

Not classified.
Eye irritation Category 2B
Hazardous to the aquatic environment, acute hazard Category 3
Not classified.
None.
Warning
Causes eye irritation. Harmful to aquatic life.
Wash thoroughly after handling large quantities. Observe good industrial hygiene practices.
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.
Store away from incompatible materials.
Dispose of waste and residues in accordance with local authority requirements.
None known.
None.

3. Composition/information on ingredients

Mixtures

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Eye/face protection	None necessary under normal conditions of use. Wear safety glasses or goggles if handling large quantities.		
Skin protection			
Hand protection	None necessary under normal conditions of use. Wear appropriate gloves if handling large quantities.		
Other	None necessary under normal conditions of use.		
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Colorless to pale yellow, dye free.

Odor Fragrance Free

Odor threshold Not available.

pH 5 - 6

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point Not available.

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 1.01

Solubility(ies)

Solubility (water) Water Soluble

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

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

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

12. Ecological information

Ecotoxicity

Harmful to aquatic life.

Product		Species	Test Results
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Crustacea	EC50	Daphnia	77.6641 mg/l, 48 hours estimated
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Fish	LC50	Fish	111.212 mg/l, 96 hours estimated
Components			
Species			
Test Results			
COCAMIDOPROPYL BETAINE (CAS 61789-40-0)			
Aquatic			
<i>Acute</i>			
Fish	LC50	Fish	0.28 - 2.8 mg/l, 96 Hours
<i>Chronic</i>			
Fish	NOEC	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	16 mg/l, 28 days
GLYCERIN (CAS 56-81-5)			
Aquatic			
Fish	LC50	Fish	> 100 mg/l, 96 hours
SODIUM LAURETH SULFATE (CAS 68585-34-2)			
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	2.33 - 4.81 mg/l, 48 hours

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

GLYCERIN -1.76

Mobility in soil No data available.

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

13. Disposal considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations. This product, if discarded, is not considered a hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261. If processing, use, or contamination alters the material, the waste must be tested using methods described in 40 CFR 261 to determine if it meets applicable definitions of hazardous wastes.
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	Empty packaging/container can be disposed in accordance with all applicable regulations.

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.

HALLMAN/LINDSAY PAINTS
GOAL LINE WHITE ATHLETIC FIELD MARKING

1. Product and Company Identification

Product Name : GOAL LINE WHITE ATHLETIC FIELD MARKING

Product Code : 305'

Recommended Use: Exterior marking paint.

Company Identification:

HALLMAN/LINDSAY PAINTS

P.O. BOX 109

SUN PRAIRIE, WI 53590

Information Phone: (608) 834-8844

Emergency Phone: 1-800-633-8253

2. Hazards Identification

Hazard-determining component	Signal Word	Hazard Class/Category code
Kaolin	DANGER	Eye Irrit.2 Skin Irrit.2 STOT RE 1

Hazard Pictogram Description

GHS07-Exclamation mark GHS08-Health hazard

Hazard statements

H315 Causes skin irritation H319 Causes serious eye irritation H350 May cause cancer H372 Causes damage to organs through prolonged or repeated exposure

Precautionary statements

P01 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children. P260 Do not breathe dust, fume, gas, mist, vapors or spray. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing/eye protection/face protection.
P314 Get medical advice, attention if you feel unwell. P501 Dispose of contents container in accordance with local, regional, national and international regulations. P264 Wash thoroughly after handling. P281 Use personal protective gloves, protective clothing, eye protection and face protection. P302 + P352 If on skin: Wash with plenty of soap and 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 if you feel unwell. P337 + P313 If eye irritation persists: Get medical advice/attention. P363 Take off contaminated clothing and wash before reuse. P332 + P313 If skin irritation occurs: Get medical advice/attention.

Potential Health Effects

Eye: Moderately irritating to the eyes. Vapors may be irritating to the eye.

Ingestion: May be harmful if swallowed. May cause vomiting.

Inhalation: Prolonged or excessive inhalation during spray application may cause respiratory tract irritation.

Chronic (Cancer) Information:

For complete discussion of toxicology data refer to section 11.

Teratology (Birth Defects) Information:

No known significant effects or critical hazards.

Reproduction Information:

No known significant effects or critical hazards.

Aggravation of Pre-Existing Conditions:

None generally recognized.

3. Composition/Information on Ingredients

CAS#

% by Wt.

ALCINED KAOLIN

92704-41-1

30%-35%

2 mg/m³ (Respirable dust) TWA (8 hour) ACGIH TLV

5 mg/m³ (Respirable dust) TWA (8 hour) OSHA PEL

5 mg/m³ (Respirable dust) TWA (8 hour) OSHA PEL

HALLMAN/LINDSAY PAINTS
GOAL LINE WHITE ATHLETIC FIELD MARKING

TITANIUM DIOXIDE	13463-67-7	05%-10%
OSHA PEL: 10 MG/M3, ACGIH TLV: 10 MG/M3, STEL TLV: N/A		
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	0%-05%
N-Methylethanolamine	109-83-1	0%-05%

4. First Aid Measures

Eyes:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin:

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.

Ingestion:

Do not induce vomiting. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Never give anything by mouth to a person who is not fully conscious. Do not leave victim unattended. Seek medical attention immediately.

Inhalation:

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

Note to Physicians:

Treat symptomatically.

5. Fire Fighting Measures

Flammable Properties:

Flash Point: Not Applicable

Method: TCC

Explosive Limits:

Lower explosive limit: No Data

Upper explosive limit: No Data

Autoignition Temperature:

Not Applicable

Hazardous Combustion Products:

Not combustible, however following evaporation of water component of the material, the residual material can burn if ignited. On burning toxic fumes may be emitted.

Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use a solid water stream as it may scatter and spread fire.

Firefighting Procedures:

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

6. Accidental Release Measures

Small Spill:

Slippery when wet. Avoid accidents clean up immediately. Dike spill if necessary to minimize contamination. Absorb with inert material. Collect in containers for disposal.

Large Spill:

Slippery when wet. Avoid accidents clean up immediately. Contain-prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal.

Environmental Precautions:

Avoid runoff into storm sewers, ditches and waterways.

Methods/Materials for Containment and Cleaning Up:

Never take internally. Wash thoroughly after handling. Smoking in areas where this material is used should be strictly prohibited. Do not touch or walk through spilled material. Remove spillage immediately from hard, smooth walking areas.

Date Printed/Revised: 3/7/2016

HALLMAN/LINDSAY PAINTS
GOAL LINE WHITE ATHLETIC FIELD MARKING

Prevent its entry into waterways, sewers, basements, or confined areas. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to appropriate waste containers. Use clean, non-sparking tools to collect absorbed material.

7. Handling and Storage

Handling:

Keep out of reach of Children. Avoid eye contact and repeated or prolonged skin contact with liquid.

Storage:

Store in a cool place and out of direct sunlight. Keep containers closed when not in use. Check regularly for leaks. Keep From Freezing.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

Use only with adequate ventilation. Local exhaust preferable. General exhaust acceptable if the exposure to materials is maintained below applicable exposure limits. When spraying controlling exposure requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) Avoid contact with skin and eyes. Avoid breathing vapor and spray mist. Wash hands after using. This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 3) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

Engineering Controls:

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Personal Protective Equipment

Respiratory Protection:

A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection:

Wear impervious clothing and gloves when there is a reasonable chance for skin contact.

Eye Protection:

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation.

9. Physical and Chemical Properties

Boiling Point:

212°F (100°C)

Freezing Point:

32°F (0°C)

Flash Point:

182 F

Vapor Pressure:

0.0 mmHg at 20 C (68 F) Water

Vapor Density:

Greater than air. (Air=1).

Solubility in Water:

May be thinned with water.

Date Printed/Revised: 3/7/2016

HALLMAN/LINDSAY PAINTS
GOAL LINE WHITE ATHLETIC FIELD MARKING

Evaporation Rate:

Slower than ether.

Exposure:

Upper Exposure Limit: No Data

Lower Exposure Limit: No Data

Specific Gravity: 1.35

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)**Material VOC (Includes Water) Emitted VOC**

0 g/l 0.0 lb/gal

Coating VOC (Minus Water and Exempt Solvent)

0 g/l 0.0 lb/gal

Odor:

Mild odor typical of product.

Odor Threshold:

No Data

Appearance:

Liquid coating.

Viscosity: Varies by product

Autoignition Temperature:

Decomposition Temperature:

10. Stability and Reactivity**Chemical Stability (Conditions to Avoid):**

Stable under normal storage conditions. Protect from freezing.

Incompatibility:

Materials that react with water

Hazardous Decomposition Products:

Thermal decomposition may yield acrylic monomers and other products of combustion. No hazards to be especially mentioned

Hazardous Polymerization:

Stable under recommended storage conditions

11. Toxicological Information**Information on toxicological effects****Eye:**

Toxicological data are not available. Observe the usual hygienic measures for handling chemicals.

Skin:

Toxicological data are not available. Observe the usual hygienic measures for handling chemicals.

Ingestion:

Toxicological data are not available. Observe the usual hygienic measures for handling chemicals.

Inhalation:

No significant exposure to primary particles of titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as in paints. End-users of these products are unlikely to be exposed to airborne particulates, which are bound within the "wetted mixture". Although in the event of the dry film being disturbed by sanding or other means the potential for exposure can increase.

Subchronic:

Toxicological data are not available. Observe the usual hygienic measures for handling chemicals.

Chronic/Carcinogenicity:

IARC's Monograph No 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

HALLMAN/LINDSAY PAINTS
GOAL LINE WHITE ATHLETIC FIELD MARKING

IARC: Not determined

NTP: Not determined

OSHA: Not determined

Teratology: No Data

Reproduction: No Data

Mutagenicity: No Data

Acute Toxicity: Eye Contact: May cause: Moderate irritation. Skin: May cause: Moderate irritation. Prolonged or repeated exposure can cause skin sensitization. Inhalation: of vapor or mist can cause headache, nausea, and irritation of the nose, throat and lungs. Ingestion: May cause: Nausea. May be harmful if swallowed.

STOT-single exposure: Not Applicable

STOT-repeated exposure: Not Applicable

Routes of Exposure: Not determined

12. Ecological Information

Ecotoxicological data are not available. According to experience, the material has no harmful effect on the environment.

13. Disposal Considerations

Waste Disposal Method:

Dispose of material in accordance with Federal, State and Local regulations.

14. Transport Information

UN Number:

Shipping Name:

Paint

Transport Hazard Class:

Packing Group:

15. Regulatory Information

OSHA:

Not determined

Section 313:

Not determined

16. Other Information

Prepared By: hallman/lindsay Regulatory Department

Approved By: Michael Mc Nulty

Manufacturer Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

#1406

SAFETY DATA SHEET



GJE1911

GJ881103

GJE8811

GOJO® Clear & Mild Foam Handwash

Version	Revision Date:	MSDS Number:	Date of last issue:
1.2	02/10/2015	30255-00003	12/02/2014
			Date of first issue: 11/14/2014

SECTION 1. IDENTIFICATION

Product name : GOJO® Clear & Mild Foam Handwash

Manufacturer or supplier's details

Company name of supplier : GOJO Industries, Inc.

Address : One GOJO Plaza, Suite 500
Akron OH 44311

Telephone : 1 (330) 255-6000

Emergency telephone : 1-800-424-9300 CHEMTREC

Recommended use of the chemical and restrictions on use

Recommended use : Skin-care

Restrictions on use : This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Eye Irritation : Category 2A

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H319 Causes serious eye irritation.

Precautionary Statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear eye protection/ face protection.

SAFETY DATA SHEET



GOJO® Clear & Mild Foam Handwash

Version 1.2	Revision Date: 02/10/2015	MSDS Number: 30255-00003	Date of last issue: 12/02/2014 Date of first issue: 11/14/2014
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SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray
Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Sulfur oxides
Carbon oxides
Metal oxides
Nitrogen oxides (NO_x)
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Follow safe handling advice and personal protective equipment recommendations.
- Environmental precautions : Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to

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**GOJO® Clear & Mild Foam Handwash**

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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.

Hand protection
Material

: Impervious gloves

Remarks

: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection

: Wear the following personal protective equipment:
Safety goggles

Skin and body protection

: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures

: Ensure that eye flushing systems and safety showers are located close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: liquid

Color

: clear, Colorless to pale yellow

Odor

: soapy

Odor Threshold

: No data available

pH

: 4.7 - 6.2

Melting point/freezing point

: No data available

Initial boiling point and boiling range

: No data available

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Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Ingredients:

Alcohols, C10-16, ethoxylated, sulfates, sodium salts:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Cocoamidopropyl betaine:

Acute oral toxicity : LD50: > 5,000 mg/kg
Method: OECD Test Guideline 401
Remarks: Based on data from similar materials

Acute dermal toxicity

: LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

Glycerine:

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

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

Ingredients:

Alcohols, C10-16, ethoxylated, sulfates, sodium salts:

Result: Skin irritation

Glycerine:

Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Result: Irritation to eyes, reversing within 21 days

Ingredients:

Alcohols, C10-16, ethoxylated, sulfates, sodium salts:

Result: Irreversible effects on the eye

Cocoamidopropyl betaine:

Species: Rabbit

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IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

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

Reproductive toxicity

Not classified based on available information.

Ingredients:

Cocoamidopropyl betaine:

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative
Remarks: Based on data from similar materials

Glycerine:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rabbit
Application Route: Ingestion
Result: negative

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Ingredients:

Cocoamidopropyl betaine:

Species: Rat
NOAEL: 250 mg/kg
Application Route: Ingestion
Exposure time: 90 d
Method: OECD Test Guideline 408
Remarks: Based on data from similar materials

Glycerine:

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Biodegradability : Result: Readily biodegradable.
Biodegradation: 94 %
Exposure time: 1 d

Bioaccumulative potential

Ingredients:

Glycerine:

Partition coefficient: n-octanol/water : log Pow: -1.76

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

SAFETY DATA SHEET



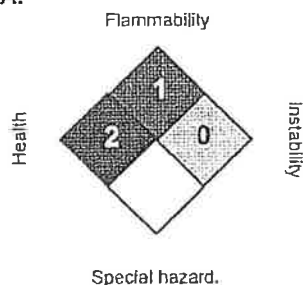
GOJO® Clear & Mild Foam Handwash

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SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

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

Full text of other abbreviations

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

OSHA Z-1 / TWA : 8-hour time weighted average

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 02/10/2015

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8

SAFETY DATA SHEET



Green Earth Daily Floor Cleaner (Diluted 1: 256)

536 DIL

Section 1. Identification

GHS product identifier : Green Earth Daily Floor Cleaner (Diluted 1: 256)
Other means of identification : Not available.
Product type : Liquid.

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

Not applicable.

Supplier's details : Betco Corporation
1001 Brown Avenue
Toledo, OH 43607
www.betco.com
888-462-3826

Emergency telephone number (with hours of operation) : Chemtrec 800-424-9300 (24 Hour)

Section 2. Hazards identification

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

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : Not available.

IS number/other identifiers

CAS number : Not applicable.
Product code : 536 DIL

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

Section 5. Fire-fighting measures

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

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

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 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.
Viscosity	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

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

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

Section 15. Regulatory information

NECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Australia	: Not determined.
Canada	: All components are listed or exempted.
China	: Not determined.
Europe	: Not determined.
Japan	: Not determined.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	0
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
Not classified.	

History

Material Safety Data Sheet



Green Earth Daily Disinfectant Cleaner (Diluted 1: 256)

537 DIL

1. Product and company identification

Product name : Green Earth Daily Disinfectant Cleaner (Diluted 1: 256)
Supplier : Betco Corporation LTD
1001 Brown Avenue
Toledo, OH 43607
www.betco.com
888-462-3826
Manufacturer : Betco Corporation LTD
1001 Brown Avenue
Toledo, Ohio 43607
www.betco.com
888-462-3826
Code : 537 DIL
MSDS # : 537 DIL
Validation date : 6/3/2014.
Print date : 6/3/2014.
In case of emergency : Chemtrec (800) 424-9300
Product type : Liquid.

2. Hazards identification

Emergency overview

Physical state : Liquid.
Color : Yellow. [Light]
Odor : Lemon-like. [Slight]
Signal word : CAUTION!
Hazard statements : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. The following statements are required by U.S. EPA: HARMFUL IF INHALED. HARMFUL IF ABSORBED THROUGH SKIN.
OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Skin : No known significant effects or critical hazards.
Eyes : Moderately irritating to eyes.

Potential chronic health effects

Chronic effects : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

6. Accidental release measures

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

7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

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

Personal protection

- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. < 1 hour (breakthrough time): disposable vinyl
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Recommended: safety glasses
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

Conclusion/Summary : Not available.

Persistence/degradability

Conclusion/Summary : Not available.

13. Disposal considerations

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

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

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG* : Packing group

15. Regulatory information

HCS Classification : Not regulated.

U.S. Federal regulations : **TSCA 4(a) proposed test rules:** Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): Not determined.
SARA 302/304: No products were found.
SARA 311/312 Hazards identification: Not regulated.
Clean Water Act (CWA) 311: edetic acid; sodium hydroxide

16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection :
Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Date of printing : 6/3/2014.
Date of issue : 6/3/2014.
Date of previous issue : 8/30/2013.
Version : 2.01
Prepared by : Not available.

☑ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SAFETY DATA SHEET



Green Earth Natural Degreaser (Diluted 1: 10)

217 DIL

Section 1. Identification

GHS product identifier : Green Earth Natural Degreaser (Diluted 1: 10)
Other means of identification : Not available.
Product type : Liquid.

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

Not applicable.

Supplier's details : Betco Corporation
1001 Brown Avenue
Toledo, OH 43607
www.betco.com
888-462-3826

Emergency telephone number (with hours of operation) : Chemtrec 800-424-9300 (24 Hour)

Section 2. Hazards identification

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

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : Not available.

number/other identifiers

CAS number : Not applicable.
Product code : 217 DIL

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

Date of issue/Date of revision : 4/16/2015. Date of previous issue : No previous validation. Version : 1 1/10

Section 5. Fire-fighting measures

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

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

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 9. Physical and chemical properties

Flash point (lower and upper explosive (flammable) limits)	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 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.
Viscosity	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Immunotoxicity

Not available.

Specific target organ toxicity (single exposure)

Section 12. Ecological information

icity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

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

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

Section 15. Regulatory information

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	0
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

SAFETY DATA SHEET



Green Earth Peroxide Cleaner (Diluted 1:10)

336 DIL

Section 1. Identification

GHS product identifier : Green Earth Peroxide Cleaner (Diluted 1:10)
Other means of identification : Not available.
Product type : Liquid.

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

Not applicable.

Supplier's details : Betco Corporation
1001 Brown Avenue
Toledo, OH 43607
www.betco.com
888-462-3826

Emergency telephone number (with hours of operation) : Chemtrec 800-424-9300 (24 Hour)

Section 2. Hazards identification

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

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : Not available.

number/other identifiers

CAS number : Not applicable.

Product code : 336DIL

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

Section 5. Fire-fighting measures

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

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

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 9. Physical and chemical properties

Flash point (lower and upper explosive limits)	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 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.
Viscosity	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Developmental toxicity

Not available.

Specific target organ toxicity (single exposure)

Section 12. Ecological information

toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

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

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

Section 15. Regulatory information

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	0
Flammability	0
Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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SECTION 1. PRODUCT/MANUFACTURER'S IDENTITY**PRODUCT NAME:** HIGH SOLIDS GYM FINISH**PRODUCT I.D. NUMBER (PIN):** N.A.**PRODUCT NUMBER:** 00234SF**WHMIS CLASS:** B3; D2B**PRODUCT USE:** Polyurethane wood finish**DOT HAZARD CLASS:** Non-Regulated (< 119 gallons)**COMPANY:**

Essential Industries, Inc.

DOT SHIPPING NAME:Bulk Proper Shipping Name:
Flammable Liquid, N.O.S.
(Aliphatic hydrocarbons)
3, UN1993, PG IIIBox 12
on, WI 53056-0012**EMERGENCY PHONE:** 800-843-6174**H.M.I.S.**

		HAZARD RATING
1	HEALTH	4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant
2	FIRE	
0	REACTIVITY	
B	MAXIMUM PERSONAL PROTECTION	

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

ABBREVIATION KEY: N.A. = Not Applicable N.E. = Not Established N.D. = Not Determined

SECTION 2 - HAZARDOUS INGREDIENTS INFORMATION**HAZARDOUS CHEMICAL IDENTITY**Aliphatic hydrocarbon
Oil modified polyurethane

CAS NO.	%	PEL	TLV	LD50	LC50
64742-88-7	40-70	500ppm	100ppm	>5g/kg	3400ppm
N.A.	40-70	N.E.	N.E.	N.D.	N.D.

This mixture does not contain components which are 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.

SECTION 3 - PHYSICAL DATA

Color: Amber	Boiling Point: 175°C (347°F)	Vapor Pressure: 3 mm of Hg	pH: N.A.
Odor: Solvent	Freezing Point: N.E.	Vapor Density (Air=1): 4 - 5	1% pH: N.A.
Physical State: Liquid	Water/Oil Distribution: N.E.	Evaporation Rate (Water=1): N.E.	Specific Gravity: 0.89 gm/ml
Solubility in Water: Complete	Odor Threshold: N.E.	VOC Content: 48.0%	Weight per Gallon: 7.44 lbs./gal.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: 104°F 40°C (C.C.)	Autoignition Temperature: N.A.	Extinguishing Media: Use dry chemical or CO2.
Flammable Limits: Combustible Liquid.	LEL: N.E. UEL: N.E.	Special Fire Fighting Procedures: Use proper protective equipment.
Hazardous Combustion Products: N.A.		Unusual Fire and Explosion Hazards: Avoid sources of ignition.

SECTION 5 - REACTIVITY DATA

Chemical Stability: Stable.	Hazardous decomposition of By-Products: None known.
Incompatibility (Materials to Avoid): Strong oxidizers and sources of ignition.	Hazardous Polymerization: Will not occur.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Routes of Entry: Ingestion. Inhalation. Skin contact. Eye contact.	Toxicologically Synergistic Products: None known.
Metabolization: No.	Medical Conditions Aggravated by Exposure: None known.
EFFECTS OF OVEREXPOSURE (Acute and/or Chronic):	
Eyes: May cause irritation.	Carcinogenic Effects: NO carcinogenic effect.
Skin: May cause mild irritation. May be absorbed through skin with prolonged or repeated contact.	Mutagenic Effects: NO mutagenic effect.
Ingestion: May cause gastrointestinal irritation, nausea, diarrhea.	Teratogenic Effects: NO teratogenic effect.
Inhalation: Exposure in poorly ventilated area may cause respiratory irritation.	Reproductive Toxicity: NO reproductive toxicity effect.

SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: None normally required with adequate ventilation.	Ventilation: Local Exhaust: Acceptable Mechanical: Recommended
Protective Gloves: Rubber for prolonged or repeated contact.	Eye Protection: Safety glasses if splashing is likely.
Protective Clothing and Equipment: As needed to prevent wetting of skin.	Work and Hygienic Practices: After handling, always wash hands thoroughly with soap and water.
Storage Requirements: Store in cool, dry area away from sources of ignition. Empty container retains vapor and product residue; do not puncture or weld on or near container.	Other Requirements: Keep out of reach of children.
Steps to be Taken if Material is Spilled or Released: Collect and reuse if possible. Ventilate area and remove all sources of ignition. Collect on inert material (sand, clay, etc.) and place into container for proper disposal. Do not allow runoff into public waterways.	
Waste Disposal: Dispose of as permitted by all federal, provincial, state and local regulatory authorities.	

SECTION 8 - EMERGENCY FIRST AID PROCEDURES**FIRST AID - NOTES TO PHYSICIAN:**

Eyes: Flush with a large amount of water for 15 minutes holding eyelids open.

Skin: Wash with mild soap and water.

Ingestion: Give 2-3 large glasses of water. Seek medical attention.

Inhalation: Remove to fresh air and rest. In all cases if symptoms persist, seek medical attention.

Note to Physician: No additional information.

SECTION 9 - PREPARATION INFORMATION**Prepared By:** Regulatory Affairs Department**Phone:** 262-538-1122**Date of Preparation:** 1/1/2005.

SAFETY DATA SHEET



Kling

Section 1. Identification

GHS product identifier : Kling
Other means of identification : Not available.
Product type : Liquid.

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

Not applicable.

Supplier's details : Betco Corporation
1001 Brown Avenue
Toledo, OH 43607
www.betco.com
888-462-3826

Emergency telephone number (with hours of operation) : Chemtrec 800-424-9300 (24 Hour)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture : SKIN CORROSION/IRRITATION - Category 1
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Causes severe skin burns and eye damage.

Precautionary statements

Prevention : Wear protective gloves: > 8 hours (breakthrough time): butyl rubber. Wear eye or face protection: Recommended: splash goggles. Wear protective clothing. Wash hands thoroughly after handling.

Response : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or 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 physician.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 2. Hazards identification

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : Not available.

CAS number/other identifiers

CAS number : Not applicable.
Product code : 075

Ingredient name	%	CAS number
Hydrogen chloride	≥5 - <10	7647-01-0

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

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

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Section 4. First aid measures

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes severe burns.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
halogenated compounds

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Hydrogen chloride	ACGIH TLV (United States, 4/2014). C: 2 ppm OSHA PEL 1989 (United States, 3/1989). CEIL: 5 ppm CEIL: 7 mg/m ³ NIOSH REL (United States, 10/2013). CEIL: 5 ppm CEIL: 7 mg/m ³ OSHA PEL (United States, 2/2013). CEIL: 5 ppm CEIL: 7 mg/m ³

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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

Individual protection measures

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

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: splash goggles

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): butyl rubber

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

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

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

Section 8. Exposure controls/personal protection

Personal protective
equipment (Pictograms)



Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Blue.
Odor	: Minty.
Odor threshold	: Not available.
pH	: <1.5
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: Not applicable. [Product does not sustain combustion.]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.047
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.
Viscosity	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use.
Conditions to avoid	: No specific data.
Incompatible materials	: Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hydrogen chloride	Eyes - Mild irritant	Rabbit	-	0.5 minutes 5 milligrams	-
	Skin - Mild irritant	Human	-	24 hours 4 Percent	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Hydrogen chloride	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Hydrogen chloride	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Routes of entry anticipated: Oral, Dermal.
Routes of entry not anticipated: Inhalation.

Potential acute health effects

Eye contact : Causes serious eye damage.
Inhalation : No known significant effects or critical hazards.
Skin contact : Causes severe burns.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Inhalation (vapors)	122 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Hydrogen chloride	Acute LC50 240000 µg/l Marine water	Crustaceans - Carcinus maenas - Adult	48 hours
	Acute LC50 282 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours

Persistence and degradability

Not available.

Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Hydrogen chloride	0.25	-	low

Mobility in soil







Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

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

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	1760	1760	1760	1760	1760	1760
UN proper shipping name	Corrosive liquid, n.o.s. (Hydrochloric Acid)	Corrosive liquid, n.o.s. (Hydrochloric Acid)	Corrosive liquid, n.o.s. (Hydrochloric Acid)	Corrosive liquid, n.o.s. (Hydrochloric Acid)	Corrosive liquid, n.o.s. (Hydrochloric Acid)	Corrosive liquid, n.o.s. (Hydrochloric Acid)
Transport hazard class(es)	8 	8 	8 	8 	8 	8 
Packing group	II	II	II	II	II	II
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	<u>Limited quantity</u> Yes.	<u>Explosive Limit and Limited Quantity Index</u> 1	-	<u>Tunnel code</u> (E)	-	-

Section 14. Transport information

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

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

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 4(a) proposed test rules:** Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
TSCA 8(a) PAIR: 4-Nonylphenol, branched, ethoxylated
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
 All components are listed or exempted.
Clean Water Act (CWA) 311: Hydrogen chloride

Clean Air Act (CAA) 112 regulated toxic substances: Hydrogen chloride

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Hydrogen chloride	≥5 - <10	Yes.	500	-	5000	-

SARA 304 RQ : 55433.2 lbs / 25166.7 kg [6349.9 gal / 24037 L]

SARA 311/312

Classification : Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Hydrogen chloride	≥5 - <10	No.	No.	Yes.	Yes.	No.

SARA 313

Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	Hydrogen chloride	7647-01-0	≥5 - <10
Supplier notification	Hydrogen chloride	7647-01-0	≥5 - <10

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

- Massachusetts** : The following components are listed: HYDROGEN CHLORIDE
New York : The following components are listed: Hydrochloric acid
New Jersey : The following components are listed: HYDROGEN CHLORIDE; HYDROCHLORIC ACID
Pennsylvania : The following components are listed: HYDROCHLORIC ACID

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

- Australia** : All components are listed or exempted.
Canada : At least one component is not listed in DSL but all such components are listed in NDSL.
China : All components are listed or exempted.
Europe : Not determined.
Japan : Not determined.
Malaysia : Not determined.
New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.
Republic of Korea : All components are listed or exempted.
Taiwan : Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	3
Flammability		0
Physical hazards		0

Section 16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
Skin Corr. 1, H314 Eye Dam. 1, H318	On basis of test data On basis of test data

History

Date of printing	: 4/1/2015.
Date of issue/Date of revision	: 4/1/2015.
Date of previous issue	: No previous validation.
Version	: 0.01
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

References : Not available.

▀ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

STEARNS

SR 47

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Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS HCS 2012

Trade name: Brisk® HE Clear Laundry Detergent

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

- 1.1 Product Identifier
 - Trade name: Brisk® HE Clear: ST-0047, ST-0091
 - Article number: LL21
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
 - No further relevant information available.
- Application of the substance / the preparation Detergent for clothing


Product dilution information: 4 oz. (118.28 mL) per average washload

- 1.3 Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier:
 - Stearns Packaging Corporation
 - 4200 Sycamore Avenue (53714)
 - PO Box 3216
 - Madison, WI 53704-0216
 - Phone: 800-655-5008
 - Email: stearns@stearnspkg.com
 - Website: www.stearnspkg.com
- 1.4 Emergency telephone number:
 - ChemTel Inc.
 - (800)255-3924, +1 (813)248-0585

2 Hazards identification

• 2.1 Classification of the substance or mixture

• Classification according to Regulation (EC) No 1272/2008

Product as SOLD	Product at USE DILUTION
 GHS07	Not classified
• Skin Irrit. 2 H315 Causes skin irritation.	Not classified
• Eye Irrit. 2A H319 Causes serious eye irritation.	Not classified

• Classification according to Directive 67/548/EEC or Directive 1999/45/EC

 XI; Irritant R36/38: Irritating to eyes and skin.	Not classified
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• Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.	The mixture does not meet the criteria for classification.
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• Classification system:

The classification is according to the latest editions of the EU-lists and extended by company and literature data.

The classification is in accordance with the latest editions of International substances lists and is supplemented by information from technical literature and by information provided by the company.


(Contd. on page 2)

Safety Data Sheet
 according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
 GHS HCS 2012

Trade name: Brisk® HE Clear Laundry Detergent

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• 2.2 Label elements

Product as SOLD	Product at USE DILUTION
<p>• Labeling according to Regulation (EC) No 1272/2008</p> <p>H227: Combustible Liquid. (General GHS and USA only) The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412. The product is classified and labeled according to the CLP regulation.</p>	
<p>• Hazard pictograms</p> <p> GHS07</p>	
<p>• Signal word Warning</p>	
<p>• Hazard statements</p> <p>H315 Causes skin irritation. H319 Causes serious eye irritation.</p>	
<p>• Precautionary statements</p> <p>P280 Wear protective gloves/eye protection. P264 Wash hands thoroughly after handling. 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. P303+P361+P353+P363 IF ON SKIN: Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. P332+P313 If skin irritation occurs: Get medical advice/attention.</p>	
<p>• Additional Information:</p> <p>Contains 2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol. May produce an allergic reaction.</p>	

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Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS HCS 2012










Trade name: Brisk® HE Clear Laundry Detergent

(Contd. from page 2)

3 Composition/information on ingredients

• 3.2 Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

• Dangerous components:		
CAS: 127087-87-0	Nonyl phenol ethoxylate  Xi R36 Eye Irrit. 2B, H320	<15%
CAS: 68439-51-0	Alcohols, C12-C14, ethoxylated propoxylated	<2%
CAS: 141-43-5	monoethanolamine  Xi R36/38/20/21/22  Acute Tox. Oral, Dermal, Inhal. 4, H302, H312, H332  Eye Dam. 1, H318, Skin Corr. 1C, H314	<1%
CAS: 110615-47-9	Alkyl polyglucosides C10-C16  Xi R36/38  Skin Corr. 2, H315  Eye Dam. 1, H318.	<3%
CAS: 112-80-1	Oleic acid  Xi R38  Skin Irrit. 2, H315	<2%

• Additional Information: For the wording of the listed risk phrases refer to section 16.

4 First-aid Measures

• 4.1 Description of first aid measures

Product as SOLD	Product at USE DILUTION
<p>• General Information: No special measures required.</p> <p>• After inhalation: Supply fresh air; consult doctor in case of complaints.</p> <p>• After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.</p> <p>• After eye contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist consult a doctor.</p>	<p>No special measures required.</p> <p>No special measures required. Treat symptomatically.</p> <p>No known effect after skin contact. Rinse with water for a few minutes.</p> <p>No known effect after eye contact. Rinse with water for a few minutes. If irritation persists, get medical attention.</p>

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Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS HCS 2012

Trade name: Brisk® HE Clear Laundry Detergent

4 First-aid measures, continued

ge 3)

• **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

Get medical attention if symptoms occur.

• **4.2 Most important symptoms and effects both acute and delayed** Cramp, Nausea, Thirst

• **Hazards** No further relevant information available.

No known effects.

• **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

Treat symptomatically.

5 Fire-fighting measures

• **5.1 Extinguishing media**

• **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• **For safety reasons unsuitable extinguishing agents:** None.

• **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

• **5.3 Advice for firefighters**

• **Protective equipment:** Wear self-contained respiratory protective device. Wear fully protective suit. • **Additional information**

No further relevant information available.

6 Accidental release measures

• **6.1 Personal precautions, protective equipment and emergency procedures**

Product as SOLD

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Keep away from ignition sources.

Product at USE DILUTION

Use personal protective equipment as required.

• **6.2 Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Avoid contact of large amounts of spilled material and run-off with soil and surface waterways.

• **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

Large Spills: Flush area with water. Prevent entry into waterways.
Small Spills: Wipe up with absorbent material.

• **6.4 Reference to other sections**

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

• **7.1 Precautions for safe handling**

Product as SOLD

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Product at USE DILUTION

Wash hands thoroughly after handling.

• **Information about fire - and explosion protection:**

No special measures required.

No precautions necessary.

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Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS HCS 2012

Trade name: Brisk® HE Clear Laundry Detergent

(Contd. from page 4)

7.2 Conditions for safe storage, including any incompatibilities

• Storage:

• Requirements to be met by storerooms and receptacles:

Product as SOLD	Product at USE DILUTION
No special requirements.	No special requirements.
• Information about storage in one common storage facility:	
Store away from foodstuffs.	Store away from foodstuffs.
• Further information about storage conditions:	
Keep container tightly sealed.	No storage precautions necessary.
• 7.3 Specific end use(s)	
No further relevant information available.	

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see Item 7.

Product as SOLD	Product at USE DILUTION
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• 8.1 Control parameters

• Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- DNELs No further relevant information available.
- PNECs No further relevant information available.
- Additional information: The lists valid during the making were used as basis.

• 8.2 Exposure controls

• Personal protective equipment:

• General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

• Respiratory protection:

Not required under normal conditions of use.

Not required under normal conditions of use.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.


No protective equipment is needed under normal conditions.

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Safety Data Sheet
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 GHS HCS 2012

Trade name: Brisk® HE Clear Laundry Detergent

(Contd. from page 5)

Product as SOLD	Product at USE DILUTION
• Material of gloves	
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.	No protective equipment is needed under normal conditions.
• Penetration time of glove material	
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.	No protective equipment is needed under normal conditions.
• For the permanent contact gloves made of the following materials are suitable:	
Nitrile rubber, NBR Neoprene gloves Butyl rubber, BR Natural rubber, NR	No protective equipment is needed under normal conditions.
• Eye protection:	
 Safety glasses	No protective equipment is needed under normal conditions.
• Body protection:	
Not required under normal conditions of use. Protection may be required for spills.	No protective equipment is needed under normal conditions.
• Limitation and supervision of exposure into the environment	
No further relevant information available.	No further relevant information available.
• Risk management measures	
See Section 7 for additional information. No further relevant information available.	See Section 7 for additional information. No further relevant information available.

9 Physical and chemical properties

	Product as SOLD	Product at USE DILUTION
• 9.1 Information on basic physical and chemical properties		
• General Information		
• Appearance:		
Form:	Liquid	Liquid
Color:	Clear	Colorless
• Odor:	Faint chemical	Odorless
• Odor threshold:	Not determined.	Not determined.

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Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS HCS 2012

Trade name: Brisk® HE Clear Laundry Detergent

(Contd. from page 6)

	Product as SOLD	Product at USE DILUTION
• pH-value at 25 °C:	10.0 ± 0.5 for concentrate	7.0 - 8.0
• Change in condition		
Melting point/Melting range:	Undetermined.	Undetermined.
Boiling point/Boiling range:	212 °F / 100 °C	212 °F / 100 °C
• Flash point:	>200 °F / >93 °C	>200 °F / >93 °C
• Flammability (solid, gaseous):	Not applicable.	Not applicable.
• Ignition temperature:	Not determined.	Not determined.
• Decomposition temperature:	Not determined.	Not determined.
• Self-igniting:	Product is not self-igniting.	Product is not self-igniting.
• Danger of explosion:	Product does not present an explosion hazard.	Product does not present an explosion hazard.
• Explosion limits:		
Lower:	Not determined.	Not determined.
Upper:	Not determined.	Not determined.
• Vapor pressure at 20 °C:	23 hPa	Not determined.
• Density at 20 °C:	1.029 g/cm³	Not determined.
• Relative density	Not determined.	Not determined.
• Vapor density	Not determined.	Not determined.
• Evaporation rate	Not determined.	Not determined.
• Solubility in / Miscibility with water:	Fully miscible.	Complete
• Partition coefficient (n-octanol/water):	Not determined.	Not determined.
• Viscosity:		
Dynamic:	100 mPas	Not determined.
Kinematic:	Not determined.	Not determined.
• Solvent content:		
Organic solvents:	0.0%	Not determined.
Water:	78.0%	>99%
Solids content:	22.0%	Not determined.
• 9.2 Other information	No further relevant information available.	No further relevant information available.

10 Stability and reactivity

- 10.1 Reactivity Not determined.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions
Toxic fumes may be released if heated above the decomposition point.
Reacts with strong acids and alkali.
Reacts with strong oxidizing agents.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: Strong oxidizing agents.
- 10.6 Hazardous decomposition products:
Sulphur oxides (SO_x)
Carbon monoxide and carbon dioxide

(Contd. on page 8)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS HCS 2012

Trade name: Brisk® HE Clear Laundry Detergent

(Contd. from page 7)

11 Toxicological Information

• 11.1 Information on toxicological effects

Product as SOLD	Product at USE DILUTION
• Acute toxicity: >5,000 mg/kg	Non-toxic at use dilution.
• Primary irritant effect:	
• on the skin: Irritant to skin and mucous membranes.	No adverse effects due to skin contact are expected.
• on the eye: Irritating effect.	Direct contact with eyes may cause temporary irritation.
• Sensitization: No sensitizing effects known.	
• Additional toxicological information:	
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:	
Irritant	Not classified

12 Ecological information

- 12.1 Toxicity
- Aquatic toxicity: The product contains materials that are harmful to the environment.
- 12.2 Persistence and degradability The product is biodegradable.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:
This statement was deduced from the properties of the single components.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

• 13.1 Waste treatment methods

Product as SOLD	Product at USE DILUTION
• Recommendation	
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements. Must not be disposed together with household garbage. Do not allow product to reach sewage system.	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

(Contd. on page 9)

Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS HCS 2012

Trade name: Brisk® HE Clear Laundry Detergent

(Contd. from page 8)

• **Uncleaned packaging:**

Product as SOLD	Product at USE/DILUTION
<ul style="list-style-type: none"> • Recommendation: Disposal must be made according to official regulations. • Recommended cleansing agents: Water, if necessary together with cleansing agents. 	Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

14 Transport information

Product as SOLD

- | | |
|--|----------------------------------|
| • 14.1 UN-Number | N/A |
| • DOT, ADR, ADN, IMDG, IATA | |
| • 14.2 UN proper shipping name | Cleaning Compounds, NOI, liquid. |
| • DOT, ADR, ADN, IMDG, IATA | |
| • 14.3 Transport hazard class(es) | |
| • DOT, ADR, ADN, IMDG, IATA | |
| • Class | N/A |
| • 14.4 Packing group | |
| • DOT, ADR, IMDG, IATA | N/A |
| • 14.5 Environmental hazards: | |
| • Marine pollutant: | No |
| • 14.6 Special precautions for user | Not applicable. |
| • 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| • UN "Model Regulation": | Cleaning Compounds, NOI, liquid. |

Product at USE/DILUTION: Not intended for transport.

15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

Product as SOLD	Product at USE/DILUTION
• Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	Not applicable.
• Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	None of the ingredients is listed.
• TSCA (Toxic Substances Control Act):	
All ingredients are listed.	All ingredients are listed.

(Contd. on page 10)

Safety Data Sheet
 according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
 GHS HCS 2012

Trade name: Brisk® HE Clear Laundry Detergent

(Contd. from page 9)

Product as SOLD	Product at USE DILUTION
• Proposition 65 (California):	
• Chemicals known to cause cancer:	
None of the ingredients is listed.	None of the ingredients is listed.
• Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	None of the ingredients is listed.
• Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	None of the ingredients is listed.
• Chemicals known to cause developmental toxicity:	
Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.	
None of the ingredients is listed	Not applicable
• Carcinogenic Categories	
• EPA (Environmental Protection Agency)	
None of the ingredients is listed.	None of the ingredients is listed.
• IARC (International Agency for Research on Cancer)	
None of the ingredients is listed	Not applicable
• TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients is listed	Not applicable
• NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	None of the ingredients is listed.
• OSHA-Ca (Occupational Safety & Health Administration)	
All ingredients are listed.	All ingredients are listed.
• Canada	
• Canadian Domestic Substances List (DSL)	
All ingredients are listed.	All ingredients are listed.
• Canadian Ingredient Disclosure list (limit 0.1%)	
None of the ingredients is listed.	Not applicable.
• Canadian Ingredient Disclosure list (limit 1%)	
None of the ingredients is listed.	None of the ingredients is listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Relevant phrases

H312	Harmful in contact with skin
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled

(Contd. on page 11)



Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS HCS 2012

Trade name: Brisk® HE Clear Laundry Detergent

(Contd. from page 10)

R36/38 Irritating to eyes and skin.
 R41 Risk of serious damage to eyes.
 R20/21/22 Harmful by inhalation, in contact with skin, If swallowed

Product as SOLD	Product at USE DILUTION												
• Hazardous Material Information System (U.S.A.)													
<table border="1"> <tr><td>Health</td><td>2</td></tr> <tr><td>Flammability</td><td>0</td></tr> <tr><td>Physical hazards</td><td>0</td></tr> </table>	Health	2	Flammability	0	Physical hazards	0	<table border="1"> <tr><td>Health</td><td>0</td></tr> <tr><td>Flammability</td><td>0</td></tr> <tr><td>Physical hazards</td><td>0</td></tr> </table>	Health	0	Flammability	0	Physical hazards	0
Health	2												
Flammability	0												
Physical hazards	0												
Health	0												
Flammability	0												
Physical hazards	0												
4=Very High; 3=High; 2=Moderate; 1=Slight; 0=Insignificant	4=Very High; 3=High; 2=Moderate; 1=Slight; 0=Insignificant												
• NFPA ratings (scale 0 - 4)													
 <p>Health = 2 Fire = 0 Reactivity = 0</p>	 <p>Health = 0 Fire = 0 Reactivity = 0</p>												

MSDS File Name: LL21 BRISK HE CLEAR SDS

• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 WHMIS: Workplace Hazardous Materials Information System (Canada)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)

• Sources

SDS Prepared by:
 ChemTel Inc.
 1305 North Florida Avenue
 Tampa, Florida USA 33602-2902
 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
 Website: www.chemtelinc.com
 Revision: 03/16/2015

Stearns Packaging Corporation 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 his 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 Stearns Packaging Corporation as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Stearns Packaging Corporation assume any liability arising out of the use by others of this product referred to herein. The data in this MSDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Stearns Packaging Corporation 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.

ITEM: 2MDV4 - Motor Run Capacitor, 5 MFD, 2-3/4 In. H

DELIVERY: 6295984835

HU NUMBER: U665592765

MSDS C0380

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

MSDS/SDS - C0380

Related Grainger Items
4

MATERIAL SAFETY DATA SHEET

REPORT NO.: E05243000816D-1

DATE: 05.30.2011

UNIVERSAL MOTOR
LOVE ROCK

-----SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION -----

PRODUCT NAME: RUN CAPACITOR

SAMPLE CODE: CBB65A, CBB65A-1

MANUFACTURER: ZHEJIANG HUIZHONG INDUSTRIAL TRADING CO.,LTD.

ADDRESS:
HAIFENG ROAD # 1399
BINHAI INDUSTRIAL ZONE
JIAOJIANG AREA, 318000, TAIZHOU, ZHEJIANG
CHINA

POST CODE: 318000

TEL: 0576-81872999

EMERGENCY TELEPHONE: 0576-81872999

FAX: 0576-81878188

E-MAIL: DALI@HUI-ZHONG.NET

-----SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENT -----

CHEMICAL NAME CAS NO. IN % BY WEIGHT

Al CASE 7429-90-5 10

MPP 9003-07-0 40

Fe 7439-89-6 4

VEGETABLE OIL 8002-13-9 24

MICROCRYSTAL WAX 8001-75-0 6

7440-66-6 7

Sn 7440-31-5 2

PP 9003-07-0 6

Cu 7440-50-8 1

-----SECTION 3 - HAZARDS IDENTIFICATION -----

EYES:
MAY CAUSE IRRITATION TO EYES. CONTACT WITH MOLTEN MATERIAL MAY CAUSE THERMAL BURNS.SKIN:
MAY CAUSE SKIN IRRITATION INDIVIDUAL. CONTACT WITH MOLTEN MATERIAL MAY CAUSE THERMAL BURNS.INHALATION:
MAY CAUSE RESPIRATORY TRACT IRRITATION. MELT PROCESSING FUMES OR VAPORS MAY CAUSE RESPIRATORY IRRITATION.

INGESTION: MAY BE HARMFUL IF SWALLOWED.

-----SECTION 4 - FIRST AID MEASURES -----

EYE:
IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF EASY TO DO, REMOVE CONTACT LENSES, GET MEDICAL AID.SKIN:
REMOVE CONTAMINATED CLOTHING/SHOES. FLUSH SKIN WITH PLENTY OF WATER. GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED.INHALATION:
REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.

-----SECTION 5 - FIRE FIGHTING MEASURES -----

FLASH POINT: >100 DEG. C(CLOSED CUP) (VEGETABLE OIL).

FLAMMABILITY: NON-FLAMMABLE(VEGETABLE OIL).

EXTINGUISHING MEDIA:
USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE.FIREFIGHTING:
WEAR SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.DECOMPOSITION PRODUCTS:
CARBON OXIDES, ACROLEIN, FORMALDEHYDE-LIKE, METAL OXIDES, OTHER IRRITATION OR TOXIC FUME OR MIST.

-----SECTION 6 - ACCIDENTAL RELEASE MEASURES -----

AT LONG INDUSTRIAL CONDITION, REFERENCE AS FOLLOW:

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:
VENTILATE AND EVACUATE AREA. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT AS SPECIFIED IN SECTION 8. SWEEP UP USING A METHOD THAT DOES NOT GENERATE DUST. COLLECT AS MUCH OF THE SPILLED MATERIAL AS POSSIBLE, PLACED THE SPILLED MATERIAL INTO A SUITABLE DISPOSAL CONTAINER, KEEP SPILLED MATERIAL OUT OF SEWERS, DITCHES AND BODIES OF WATER.WASTE DISPOSAL METHOD:
USE WASTE DISPOSAL METHODS IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL RULES AND REGULATIONS.

-----SECTION 7 - HANDLING AND STORAGE -----

HANDLING:
KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME, OTHER IGNITION SOURCES. PROTECT FROM DIRECT SUNLIGHT. AVOID EYE CONTACT. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WASH SKIN WITH SOAP AND WATER AFTER CONTACT. DO NOT CUT, WELDING, HEATING, AIR DRILLING OR PRESSURIZED CONTAINERS.STORAGE:
STORE IN A COOL, DRY AND WELL-VENTILATED PLACE. CONSUMPTION OF FOOD AND BEVERAGE SHOULD BE AVOIDED IN WORK AREAS. WASH HANDS WITH SOAP AND WATER BEFORE EATING, DRINKING. KEEP AWAY FROM INCOMPATIBLE SUBSTANCES, SUCH AS STRONG OXIDIZING AGENTS, CHLORINE, PERMANGANATES, E.G. POTASSIUM PERMANGANATE.

-----SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION -----

NO NEED UNDER NORMAL USE. AT LONG INDUSTRIAL CONDITION, REFERENCE AS FOLLOW:

ENGINEERING CONTROLS:
KEEP WORKROOM CONCENTRATION BELOW CURRENT APPLICABLE OSHA SAFETY AND HEALTH REQUIREMENTS. IF NECESSARY, CONFIGURE THE EXPLOSION-PROOF, ANTI-STATIC DEVICES.RESPIRATORY PROTECTION:
APPROPRIATE VAPOR CANISTER, SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED-AIR HOSE MASK BELOW CURRENT APPLICABLE OSHA SAFETY AND HEALTH REQUIREMENTS.PERSONAL PROTECTION:
SAFETY GLASSES, PROTECTIVE GLOVES, AND LAB COAT, EYE WASHER AND SAFETY SHOWER IF NEEDED.

EXPOSURE LIMITS:

Al CASE:
OSHA PEL: 15 MG/M3 TOTAL DUST (TWA), 5 MG/M3 RESPIRABLE FRACTION (TWA).
ACGIH TLV: 1 MG/M3 RESPIRABLE FRACTION.Fe:
OSHA TWA: 10.0 MG/M3 AS OXIDE DUST AND FUME.
ACGIH TLV: 5.0 MG/M3 AS OXIDE FUME.VEGETABLE OIL:
OSHA PEL: 10.0 MG/M3 TWA.Sn:
OSHA TWA: 2 MG/M3 TWA AS Sn.
ACGIH TLV: 2 MG/M3 TWA, 2 MG/M3 TWA EXCEPT TIN HYDRIDE, AS Sn.Cu:
OSHA TWA: 0.1 MG/M3 AS FUME; 1.0 MG/M3 AS DUST.
ACGIH TLV: 0.2 MG/M3 AS FUME; 1.0 MG/M3 AS DUST.

-----SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -----

pH: 7.0 (VEGETABLE OIL; 27 DEG. C, 59%RH).

FLASH POINT: >100 DEG. C(CLOSED CUP) (VEGETABLE OIL).

FLAMMABILITY: NON-FLAMMABLE(VEGETABLE OIL).

SOLUBILITY IN WATER: DIFFICULT SOLUBLE IN WATER(VEGETABLE OIL).

APPEARANCE AND ODOR:

SLIVER, CYLINDRICAL WITH ODORLESS SOLID (VEGETABLE OIL;
GOLDEN YELLOW WITH SLIGHTLY IRRITATION ODOR LIQUID).

CHEMICAL USES: AIR CONDITIONING RUN CAPACITOR.

-----SECTION 10 - STABILITY AND REACTIVITY -----

STABILITY: STABLE UNDER NORMAL CONDITION.

CONDITIONS TO AVOID:
HEATING, SPARKS, OPEN FLAME, MECHANICAL ABUSE AND ELECTRICAL ABUSE.INCOMPATIBILITIES:
STRONG OXIDIZING AGENTS, CHLORINE, PERMANGANATES, E.G. POTASSIUM PERMANGANATE.HAZARDOUS COMBUSTIBLE PRODUCTS:
CARBON OXIDES, ACROLEIN, FORMALDEHYDE-LIKE, METAL OXIDES, OTHER IRRITATION OR TOXIC FUME OR MIST.

-----SECTION 11 - TOXICOLOGICAL INFORMATION -----

ACUTE TOXICITY:

Fe:
ORAL LD50 FOR RAT: 30 G/KG.

Cu:
ORAL LD50 FOR MOUSE: 3.5 MG/KG (INTRAPERITONEAL).

-----SECTION 12 - ECOLOGICAL INFORMATION -----

ECOTOXICOLOGY:

TOXICITY TO CYPRINUS CARPIO (CARP) LC50: 450 (MICRO)G/L/96 H.
TOXICITY TO DAPHNIA MAGNA (WATER FLEA) LC50: 0.068 MG/L/ 48 H.

ENVIRONMENTAL EFFECT:
REPORT SPILLS AS REQUIRED TO APPROPRIATE AUTHORITIES. U.S. COAST GUARD
REGULATIONS REQUIRE IMMEDIATE REPORTING OF SPILLS THAT COULD REACH ANY
WATERWAY INCLUDING INTERMITTENT DRY CREEKS.

-----SECTION 13 - DISPOSAL CONSIDERATIONS -----

DISPOSAL TREATMENT:
ALL DISPOSALS MUST COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THE
MATERIAL, IF SPILLED OR DISCARDED, MAY BE A REGULATED WASTE. REFER TO STATE
AND LOCAL REGULATIONS. IF REGULATED SOLVENTS ARE USED TO CLEAN UP SPILLED
MATERIAL, THE RESULTING WASTE MIXTURE MAY BE REGULATED.

-----SECTION 14 - TRANSPORT INFORMATION -----

THE RUN CAPACITOR IS EXEMPT FROM DANGEROUS GOODS. IT IS CONSIDERED
NON-DANGEROUS GOODS BY THE SPECIAL PROVISION 188 OF IMDG, OR THE TECHNICAL
INSTRUCTIONS FOR THE SAFE TRANSPORT OF DANGEROUS GOODS (TI).

TRANSPORT FASHION: BY SEA, BY RAILWAY.

-----SECTION 15 - REGULATORY INFORMATION -----

LAW INFORMATION:
DANGEROUS GOODS REGULATION

RECOMMENDATIONS ON THE TRANSPORT OF DANGEROUS GOODS MODEL REGULATIONS

INTERNATIONAL MARITIME DANGEROUS GOODS

TECHNICAL INSTRUCTIONS FOR THE SAFE TRANSPORT OF DANGEROUS GOODS

CLASSIFICATION AND CODE OF DANGEROUS GOODS

OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)

TOXIC SUBSTANCES CONTROL ACT (TSCA)

CONSUMER PRODUCT SAFETY ACT (CPSA)

FEDERAL ENVIRONMENTAL POLLUTION CONTROL ACT (FEPCA)

COAST GUARD OIL POLLUTION ACT (OPA)

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT TITLE III
(302/311/312/313) (SARA)

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA)

SAFETY DRINKING WATER ACT (CWA)

CALIFORNIA PROPOSITION 65

CODE OF FEDERAL REGULATIONS (CFR)

IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.

-----SECTION 16 - ADDITIONAL INFORMATION -----

THE ABOVE INFORMATION IS BASED ON THE DATA OF WHICH WE ARE AWARE AND IS
BELIEVED TO BE CORRECT AS OF THE DATA HEREOF. SINCE THIS INFORMATION MAYBE
APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH MAY BE
UNFAMILIAR AND SINCE DATA MADE AVAILABLE SUBSEQUENT TO THE DATA HEREOF MAY
SUGGEST MODIFICATIONS OF THE INFORMATION, WE DO NOT ASSUME ANY
RESPONSIBILITY FOR THE RESULTS OF ITS USE. THIS INFORMATION IS FURNISHED
UPON CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS OWN
DETERMINATION OF THE SUITABILITY OF THE MATERIAL FOR HIS PARTICULAR
PURPOSE.

EDITED BY:

CHECKED BY:

APPROVED BY:

MSDS CREATION DATE: MAY 30, 2011

Section 1. General Information

HMIS
Health Hazard 1
Fire Hazard 0
Reactivity 0
Personal Protection b

Common Name	PERFECT LAUNDRY DET. LEMON 60969040	In case of Emergency	CHEMTREC (800) 424-9300
Code	1982	DOT	Not a DOT controlled material (United States). No products were found.
HCS Risk Phrases	Not controlled under the HCS (United States).		
Federal and State Regulations	<p>TSCA: No products were found.</p> <p>SARA 302/304/311/312 extremely hazardous substances: No products were found.</p> <p>SARA 302/304 emergency planning and notification: No products were found.</p> <p>SARA 302/304/311/312 hazardous chemicals: No products were found.</p> <p>SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.</p> <p>Clean Water Act (CWA) 307: No products were found.</p> <p>Clean Water Act (CWA) 311: No products were found.</p> <p>Clean air act (CAA) 112 accidental release prevention: No products were found.</p> <p>Clean air act (CAA) 112 regulated flammable substances: No products were found.</p> <p>Clean air act (CAA) 112 regulated toxic substances: No products were found.</p>		

Section 2. Hazardous Ingredients

Name	CAS #	% by weight	TLV/PEL	LC50/LD50
Sodium carbonate	497-19-8	10-30	Not available.	ORAL (LD50): Acute: 4090 mg/kg [Rat].
Sodium alkylbenzene sulfonate.	68081-81-2	1-5	Not available.	Not available.
DODECYL ALCOHOL, ETHOXYLATED	9002-92-0	1-5	Not available.	Not available.

Section 3. Special Protection

Respiratory protection	A respirator is not needed under normal and intended conditions of product use.
Ventilation	Good general ventilation should be sufficient to control airborne levels.
Eye Protection	Safety glasses.
Protective gloves	Gloves (impervious) are recommended for prolonged contact with bulk quantities.
Other Protective Equipment	Coveralls Boots. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 4. Health Hazards Data

Routes of Entry	Inhalation, Ingestion, Eye contact, Skin contact
Potential Acute Health Effects	If ingested might cause discomfort, diarrhea and nausea. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. This product may irritate eyes and skin upon contact.
Effects of overexposure	Not applicable.
Emergency and First Aid Procedures	
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. If irritation persists, get medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek medical attention if discomfort persists.
Ingestion	Have conscious person drink several glasses of water. Get medical attention immediately.
Other Toxic Effects on Humans	No additional information.
Threshold Limit Value	Not applicable.

Section 5. Physical Data

Physical state	Granular solid.	Odour	Lemon.
Boiling Point	Not applicable	Taste	Not available.
Melting Point	Not available.	Colour	White with blue crystals
Critical Temperature	Not available.	Molecular Weight	Not available.
Volatility	< 10	pH (in water)	Not applicable.
Evaporation Rate	Not available.	pH (concentrate)	10 to 11 (Conc. (% w/w): 1) [Basic.]

Vapour Pressure	Not available.	Vapour Density	Not available.
Ionicity (in water)	Not available.	Specific Gravity	10 to 11 (Conc. (% w/w): 1) [Basic.]
Dispersion Properties	See solubility in water.	Viscosity	Not available.
Solubility	Soluble in cold water, hot water.	Odour Threshold	Not available.

Section 6. Fire and Explosion Data

Flash Points	Not applicable.
Flammable Limits	Not available.
Extinguishing Media and Instructions	Not applicable.
Special Firefighting Procedures	Not available.
Unusual Fire Explosion Hazards	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Section 7. Reactivity Data

Chemical Stability	The product is stable.
Conditions of Instability	Not available.
Incompatibility with various substances	Slightly reactive to reactive with acids.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization (will or will not occur)	Not available.

Section 8. Special Precautions

Handling	Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.
Other Precautions	Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as acids.

Section 9. Spill or Leak Procedures

Steps to be taken if material is released or spilled	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Waste Disposal	Recycle, if possible. Consult your local or regional authorities.

Section 10. Additional Information

References

Validated by the Regulatory Affairs Department on 3 Feb. 2006

Printed 29 Nov. 2006

CHEMTREC (800) 424-9300

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

#1045

SAFETY DATA SHEET



PM 5/8503

PM 5/8203

PROVON® Foaming Handwash with Moisturizers

Version	Revision Date:	MSDS Number:	Date of last issue:
1.3	02/10/2015	31431-00004	01/02/2015
			Date of first issue: 11/24/2014

SECTION 1. IDENTIFICATION

Product name : PROVON® Foaming Handwash with Moisturizers

Manufacturer or supplier's details

Company name of supplier : GOJO Industries, Inc.

Address : One GOJO Plaza, Suite 500
Akron OH 44311

Telephone : 1 (330) 255-6000

Emergency telephone : 1-800-424-9300 CHEMTREC

Recommended use of the chemical and restrictions on use

Recommended use : Skin-care

Restrictions on use : This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Eye irritation : Category 2A

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H319 Causes serious eye irritation.

Precautionary Statements : Prevention:

SAFETY DATA SHEET



PROVON® Foaming Handwash with Moisturizers

Version 1.3	Revision Date: 02/10/2015	MSDS Number: 31431-00004	Date of last issue: 01/02/2015 Date of first issue: 11/24/2014
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Notes to physician : Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

- | | |
|--|---|
| Suitable extinguishing media | : Water spray
Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO2) |
| Unsuitable extinguishing media | : None known. |
| Specific hazards during fire fighting | : Exposure to combustion products may be a hazard to health. |
| Hazardous combustion products | : Sulfur oxides
Carbon oxides
Metal oxides
Nitrogen oxides (NOx) |
| Specific extinguishing methods | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area. |
| Special protective equipment for fire-fighters | : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.
Follow safe handling advice and personal protective equipment recommendations. |
| Environmental precautions | : Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained. |
| Methods and materials for containment and cleaning up | : Soak up with inert absorbent material.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable |

SAFETY DATA SHEET



PROVON® Foaming Handwash with Moisturizers

Version 1.3	Revision Date: 02/10/2015	MSDS Number: 31431-00004	Date of last issue: 01/02/2015 Date of first issue: 11/24/2014
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- | | |
|--------------------------|---|
| Remarks | : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. |
| Eye protection | : Wear the following personal protective equipment:
Safety goggles |
| Skin and body protection | : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc). |
| Hygiene measures | : Ensure that eye flushing systems and safety showers are located close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|---|---------------------|
| Appearance | : liquid |
| Color | : clear, light pink |
| Odor | : fruity |
| Odor Threshold | : No data available |
| pH | : 4.7 - 6.2 |
| Melting point/freezing point | : No data available |
| Solidification / Setting point | : 2.40 °C |
| Initial boiling point and boiling range | : 98.00 °C |
| Flash point | : > 100 °C |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Upper explosion limit | : No data available |
| Lower explosion limit | : No data available |

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Alcohols, C10-16, ethoxylated, sulfates, sodium salts:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Cocoamidopropyl betaine:

Acute oral toxicity : LD50: > 5,000 mg/kg
Method: OECD Test Guideline 401
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

Ingredients:

Alcohols, C10-16, ethoxylated, sulfates, sodium salts:

Result: Skin Irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Result: Irritation to eyes, reversing within 21 days

Ingredients:

Alcohols, C10-16, ethoxylated, sulfates, sodium salts:

Result: Irreversible effects on the eye

Cocoamidopropyl betaine:

Species: Rabbit
Result: Irreversible effects on the eye
Method: OECD Test Guideline 405
Remarks: Based on data from similar materials

Respiratory or skin sensitization

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

Product:

Assessment: Does not cause skin sensitization.

Ingredients:

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STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Ingredients:

Cocoamidopropyl betaine:

Species: Rat

NOAEL: 250 mg/kg

Application Route: Ingestion

Exposure time: 90 d

Method: OECD Test Guideline 408

Remarks: Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

Cocoamidopropyl betaine:

Toxicity to fish

: LC50: > 1 - 10 mg/l

Exposure time: 96 h

Method: ISO 7346/2

Remarks: Based on data from similar materials

Toxicity to bacteria

: EC50: > 100 mg/l

Method: OECD Test Guideline 209

Remarks: Based on data from similar materials

Persistence and degradability

Product:

Biodegradability

: Result: Biodegradable

Ingredients:

Alcohols, C10-16, ethoxylated, sulfates, sodium salts:

Biodegradability

: Result: Readily biodegradable.

Cocoamidopropyl betaine:

Biodegradability

: Result: Readily biodegradable.

Biodegradation: > 60 %

Exposure time: 28 d

Method: OECD Test Guideline 301

Remarks: Based on data from similar materials

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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.

US State Regulations
Pennsylvania Right To Know

Water	7732-18-5	90 - 100 %
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New Jersey Right To Know

Water	7732-18-5	90 - 100 %
Alcohols, C10-16, ethoxylated, sulfates, sodium salts	68585-34-2	1 - 5 %
Cocoamidopropyl betaine	61789-40-0	1 - 5 %

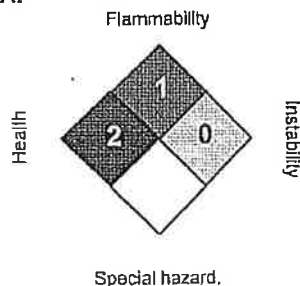
California Prop 65 This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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

AICS : All ingredients listed or exempt.

Inventories

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

SECTION 16. OTHER INFORMATION
Further information
NFPA:

HMIS III:

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

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



PURELL® PROFESSIONAL SURFACE DISINFECTANT – FINISHED PRODUCT

Version 1.3

MSDS Number: 400000005189

Revision Date: 03/02/2016

SECTION 1. IDENTIFICATION

Product name : PURELL® PROFESSIONAL SURFACE DISINFECTANT –
FINISHED PRODUCT USE ONLY

Manufacturer or supplier's details

Company name of supplier : GOJO Industries, Inc.

Address : One GOJO Plaza, Suite 500
Akron, Ohio, 44311

Telephone : 1 (330) 255-6000

Emergency telephone number : 1-800-424-9300 CHEMTREC

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

GHS Label element

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.

Precautionary statements : **Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces. -
No smoking.

P233 Keep container tightly closed.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None Known

**PURELL® PROFESSIONAL SURFACE DISINFECTANT – FINISHED PRODUCT**

Version 1.3

MSDS Number: 400000005189

Revision Date: 03/02/2016

- ods cumstances and the surrounding environment.
Use water spray to cool unopened containers.
- Further information : Fire residues and contaminated fire extinguishing water must
be disposed of in accordance with local regulations.
- Special protective equipment : In the event of fire, wear self-contained breathing apparatus.
for firefighters Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Material can create slippery conditions.
- Environmental precautions : Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Retain and dispose of contaminated wash water.
- Methods and materials for containment and cleaning up : Non-sparking tools should be used.
Soak up with inert absorbent material.
Keep in suitable, closed containers for disposal.
Clean contaminated floors and objects thoroughly while observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid contact with eyes.
- Conditions for safe storage : No smoking.
Take measures to prevent the build up of electrostatic charge.
Keep container tightly closed in a dry and well-ventilated place.
Store in accordance with the particular national regulations.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethyl Alcohol	64-17-5	TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1
		STEL	1,000 ppm	ACGIH
Isopropyl Alcohol	67-63-0	TWA	200 ppm	ACGIH

SAFETY DATA SHEET



PURELL® PROFESSIONAL SURFACE DISINFECTANT – FINISHED PRODUCT

Version 1.3

MSDS Number: 400000005189

Revision Date: 03/02/2016

Melting point/freezing point	: No data available
Initial boiling point and boiling range	: 77 °C
Flash point	: 30.8 °C Method: Pensky-Martens closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: 19 %(V)
Lower explosion limit	: 3.3 %(V)
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0.952 g/cm ³
Solubility(ies) Water solubility	: soluble
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: not determined
Thermal decomposition	: The substance or mixture is not classified self-reactive.
Viscosity Viscosity, dynamic	: 2.6 mPa.s
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

SAFETY DATA SHEET



PURELL® PROFESSIONAL SURFACE DISINFECTANT – FINISHED PRODUCT

Version 1.3

MSDS Number: 400000005189

Revision Date: 03/02/2016

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available on product

Persistence and degradability: No information available on product

Bioaccumulative potential: No information available on product

Mobility in soil: No information available on product

Other adverse effects: No information available on product

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

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

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

UN/ID No. : UN 1987
Proper shipping name : Alcohols, n.o.s.
(Ethanol, Propan-2-ol)
Class : 3
Packing group : III
Packing instruction (cargo aircraft) : 366

IMDG-Code

UN number : UN 1987
Proper shipping name : ALCOHOLS, N.O.S.
(Ethanol, Propan-2-ol)
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-D
Marine pollutant : no

SAFETY DATA SHEET

**PURELL® PROFESSIONAL SURFACE DISINFECTANT – FINISHED PRODUCT**

Version 1.3

MSDS Number: 400000005189

Revision Date: 03/02/2016

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

Potassium Hydroxide	1310-58-3	0.35 %
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Massachusetts Right To Know

Ethyl Alcohol	64-17-5	20 - 35 %
Isopropyl Alcohol	67-63-0	1 - 5 %

Pennsylvania Right To Know

Water (Aqua)	7732-18-5	70 - 90 %
Ethyl Alcohol	64-17-5	20 - 35 %
Isopropyl Alcohol	67-63-0	1 - 5 %
Potassium Hydroxide	1310-58-3	0.1 - 1 %

New Jersey Right To Know

Water (Aqua)	7732-18-5	70 - 90 %
Ethyl Alcohol	64-17-5	20 - 35 %
Isopropyl Alcohol	67-63-0	1 - 5 %

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:

CH INV	: On the inventory, or in compliance with the inventory
TSCA	: On TSCA Inventory
DSL	: All components of this product are on the Canadian DSL.
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory ISHL
	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

Inventories

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

SECTION 16. OTHER INFORMATION**Further information:**

SAFETY DATA SHEET



Push

133 DIL

Section 1. Identification

GHS product identifier : Push
Other means of identification : Not available.
Product type : Liquid.

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

Not applicable.

Supplier's details : Betco Corporation
1001 Brown Avenue
Toledo, OH 43607
www.betco.com
888-462-3826

Emergency telephone number (with hours of operation) : Chemtrec 800-424-9300 (24 Hour)

Section 2. Hazards identification

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

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Other means of identification : Not available.

number/other identifiers

CAS number : Not applicable.
Product code : 133 DIL

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : No specific data.

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

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

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

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

Methods and materials for containment and cleaning up

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

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

Section 7. Handling and storage

Precautions for safe handling

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

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

Section 9. Physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Off-white. [Light]
Odor	: Wintergreen. [Slight]
Odor threshold	: Not available.
pH	: 6.5 to 8.5
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: Not applicable. [Product does not sustain combustion.]
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1
Solubility	: Soluble in the following materials: cold water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Alcohols, C9-11, ethoxylated	LD50 Dermal	Rabbit	2 g/kg	-
	LD50 Oral	Rat	1378 mg/kg	-

Irritation/Corrosion

Not available.

Section 11. Toxicological information

Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	3367 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Alcohols, C9-11, ethoxylated	Acute EC50 5.36 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 2686 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 8500 µg/l Fresh water	Fish - Pimephales promelas	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Alcohols, C9-11, ethoxylated	-	237	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

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