

Southern Oregon Child and Family Council, Inc.

Approved Chemicals for Use in All Centers – 8/2016

This list includes all chemicals currently approved for use by staff. All chemicals must be used with **caution** and the instructions on the product label **must** be followed. The agency maintains current Safety Data Sheets (SDS) for these products on the agency website and in binders in each facility. All users should be familiar with the SDS and product labels. Individual sensitivity to chemicals varies and it is good practice to minimize usage and use when people are not in the immediate vicinity. Any chemical in your center that is not on this list should be safely dispositioned. Contact your center Safety Representative with any questions.

For Use in Classrooms and associated areas only

Stride Floor Cleaner – SC Johnson

Baking soda – pure

Bon Ami powder cleanser

Borax

Lemon juice

Mr. Clean Magic Eraser original

Salt

Simple Green – ready to use cleaner, “Free and Clear” (not concentrated, no dyes or perfumes)

Equate hand soap - NOT anti-bacterial

Vegetable oil-based soaps – Castile, Murphy’s Oil soap

Vinegar – commonly white

ALL brand – free and clear laundry detergent

Ecos Laundry detergent – available at Costco

Alpha-HP multi-surface disinfectant – bathrooms and all floors

Oxivir TB ready to use sanitizer – spray bottle, all classroom and center areas and objects including diapering areas

Kitchen

Apex Dish Machine Soap

Baking Soda

Chlorine bleach, standard – kitchen use on food contact surfaces only; preferably concentration 5.25 – 6.0%, non-germicidal, no additives

Comet

Dawn Dish Soap

Earth Friendly Wave Dish Washing Gel

Eco Lab Wash & Walk

Eco Lab Jet Dry

Eco Lab Lime Away
Eco Lab Pathway Drain Treatment
Eco Lab Power Dish Machine Soap
Eco Lab Super Swamp
Equate Hand Soap
Keystone High Temp Grill Cleaner
Keystone Satin Shine Cleaner & Polish
Keystone Under Counter Machine Soap
Keystone Drain Treatment
Seventh Generation Dish Wash Soap
Simple Green
Soft Scrub Cleanser
Soft Scrub Hand Soap
Spitfire Power Cleaner
Sterno Cooking Fuel
Sysco Brand Comet Cleaner
Sysco Brand Dishwashing Powder
Tork Foam Soap
Weimen Stainless Steel Polish

Maintenance Use Only

Ace water based striping paint spary for
Ace Window glazing
Beadex joint compound all purpose
Behr prem. Plus dwall prime/seal gal latex
Blackjack neoprene supr flash cement #99 tube
Chalkboard paint
Chemrex BASF CX-941 polyurethane cloor adhesive
Concentrated Simple Green All Purpose Cleaner Spray
Do it Best foaming wasp & Hornet Killer
Do it Best gen purpose floor adhesive
Do it best Striping paint spray ?
Elmers Carpenter Wood Filler (int, ext)
Elmers Wood Glue
Gemini Gem Glo stain - (wiping)
Glidden ext latex
GooGone Citrus power
Great stuff foam insul spray
Henry 430 commercial tile uct adhs
Henry 547 unipro universal patch/dkimcoat
Henry Patch Additive 1 qt
Jasco Premium paint & evoxy remover
Jasco tsp liquid concent
Johnsonite flooring & tread adhesive
Klean-stip paint thinner, oderless mineral spirits
Krylon primer spray

Latex Wood Filler
Lift off graffiti remover spray 4
Light weight spackle
Liquidnails FRP 310
Liquidnails project adhesive
Minwax Stains & Seals
Minwax water based wood conditioner
Minwax wipe on poly finish
Mold control spray concrobium
Olympic Elite Stain Sealant Semi transparent
Pesticides-Roundup; Weed n' feed
Quick setting cement - quikrete
Ready mix concrete patch DAP Bodex
Revere graffiti remover
Roberts carpet adhesive
Rodda floor finish polyethylene 5G
Rodda pro traffic marking paint gal
Royal semi gloss Ac. Latex enamel
Rust-Oleum gloss enamel spray
SkidTex by Bondex additive to paint
Traffic & zone mark paint (gal)
Trustworthy spray enamel
TSP/90 Cleaner - powder
Valspar anti skin additive
Valspar enamel
Valspar zone marking paint qt.
Wagner cleaner lub latex
Wagner paint easey conditioner
Wasp & Hornet Killer
Weldon 750 Hot Weld PVC glue (blue) fast set
Weldwood contact sement (gel)
Zinsser concentrate wallpaper stripper
Zinsser Bullseye Shellac spray clear
Zinsser covers up ceiling paint/primer
Zinsser oil base stain block gal.
Zinsser Primer

Miscellaneous

Batteries- Duracell
Natural Gas

Office

Bleach
Comet
Dawn
Folex Carpet Spot Remover

Innovera Canned Air
Pledge Furniture Polish
Terro Ant Killer
Vinegar
Whiteboard Cleaner



Sodium Bicarbonate

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
Revision Date: 03/12/2015 Date of issue: 03/12/2015 Supersedes Date: 03/09/2012

Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Substance

Product Name: Sodium Bicarbonate

CAS No: 144-55-8

Formula: NaHCO_3

Synonyms: Baking Soda

Intended Use of the Product

Food Ingredient, Pharmaceutical, Household and Personal Care Product, Water Treatment, General Industrial Use.

Name, Address, and Telephone of the Responsible Party

Company

Church & Dwight
500 Charles Ewing Blvd
Ewing Township, NJ 08628
T 1-800-524-1328
www.churchdwight.com

Emergency Telephone Number

Emergency Number : For Medical Emergency: 1-888-234-1828, For Chemical Emergency: 1-800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

The consumer variant of this product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC) and the Food and Drug Administration (FDA). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this SDS differ from the labeling requirements of the CPSC and FDA, and as a result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

Classification of the Substance or Mixture

Classification (GHS-US) Not classified

Label Elements

GHS-US Labeling No labeling applicable

Other Hazards Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Prolonged contact with dust can produce mechanical irritation.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Name : Sodium Bicarbonate
CAS No : 144-55-8

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Sodium bicarbonate	(CAS No) 144-55-8	100	Not classified

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

Inhalation: When symptoms occur: go into open air and ventilate suspected area.

Skin Contact: Brush off loose particles from skin. Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

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Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention if a large amount is swallowed.

Most Important Symptoms and Effects Both Acute and Delayed

General: None expected under normal conditions of use.

Inhalation: Prolonged inhalation of dust may cause respiratory irritation.

Skin Contact: Skin contact with large amounts of dust may cause mechanical irritation.

Eye Contact: Contact may cause irritation due to mechanical abrasion.

Ingestion: Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.

Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: For surrounding fire: Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: NOT FLAMMABLE . Under fire conditions, hazardous fumes will be present.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters

Precautionary Measures Fire: Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

Firefighting Instructions: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Sodium oxides.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust or fumes. Avoid skin and eye contact.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

For Containment: Contain and collect as any solid.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Avoid generation of dust during clean-up of spills. Keep in suitable, closed containers for disposal. Contact competent authorities after a spill.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: When heated, material emits irritating fumes.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Incompatible Materials: Acids. Water. Lime.

Storage Temperature: < 65 °C (150 °F)

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Specific End Use(s) Food Ingredient, Pharmaceutical, Water Treatment, General Industrial Use

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Particulates not otherwise classified (PNOG)		
USA ACGIH	ACGIH TWA (mg/m ³)	3 mg/m ³ Respirable fraction 10 mg/m ³ Total Dust
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ Respirable fraction 15 mg/m ³ Total Dust
Alberta	OEL TWA (mg/m ³)	10 mg/m ³ (total)
British Columbia	OEL TWA (mg/m ³)	10 mg/m ³ (total dust)
Manitoba	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particles, recommended)
New Brunswick	OEL TWA (mg/m ³)	3 mg/m ³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particles, recommended)
Nova Scotia	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particles, recommended)
Nunavut	OEL TWA (mg/m ³)	5 mg/m ³ (respirable mass)
Northwest Territories	OEL TWA (mg/m ³)	5 mg/m ³ (respirable mass)
Ontario	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable)
Prince Edward Island	OEL TWA (mg/m ³)	10 mg/m ³ (inhalable particles, recommended)
Québec	VEMP (mg/m ³)	10 mg/m ³ (including dust, inert or nuisance particulates; containing no Asbestos and <1% Crystalline silica-total dust)
Saskatchewan	OEL STEL (mg/m ³)	20 mg/m ³ (insoluble or poorly soluble-inhalable fraction) 6 mg/m ³ (insoluble or poorly soluble-respirable fraction)
Saskatchewan	OEL TWA (mg/m ³)	10 mg/m ³ (insoluble or poorly soluble-inhalable fraction) 3 mg/m ³ (insoluble or poorly soluble-respirable fraction)

Exposure Controls

Appropriate Engineering Controls: For occupational/workplace settings: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: For occupational or bulk quantities: Gloves. Safety glasses. Dust formation: dust mask.



Materials for Protective Clothing: For occupational or bulk quantities: Chemically resistant materials and fabrics.

Hand Protection: For occupational or bulk quantities: Wear chemically resistant protective gloves.

Eye Protection: For occupational or bulk quantities: Chemical goggles or safety glasses.

Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: White, crystalline powder
Odor	: None
Odor Threshold	: Not available
pH	: 8.2 (1% Solution)
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: Not available

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Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Upper/Lower Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Specific gravity / density	: 62 lb/ft ³
Specific Gravity	: Not available
Solubility	: Water: 8.6 g/100ml @ 20 °C (68 °F)
Partition Coefficient: N-octanol/water	: Not available
Viscosity	: Not available
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Decomposes slowly on exposure to water (moisture).

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Exposure to moisture or moist air. Temperatures above 150°F (65 °C).

Incompatible Materials: Acids. Water. Lime.

Hazardous Decomposition Products: None known. At high temperature may liberate toxic gases.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data:

Sodium Bicarbonate	
LD50 Oral Rat	7.3 g/kg
LC50 Inhalation Rat	> 4.7 mg/l/4h

Skin Corrosion/Irritation: Not classified [pH: 8.2 (1% Solution)]

Serious Eye Damage/Irritation: Not classified [pH: 8.2 (1% Solution)]

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged inhalation of dust may cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Skin contact with large amounts of dust may cause mechanical irritation.

Symptoms/Injuries After Eye Contact: Contact may cause irritation due to mechanical abrasion.

Symptoms/Injuries After Ingestion: Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.

Chronic Symptoms: None expected under normal conditions of use.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity No additional information available

Sodium Bicarbonate	
LC50 Fish 1	7100 mg/l Bluegill
EC50 Daphnia 1	4100 mg/l
LC 50 Fish 2	7700 mg/l Rainbow Trout
Sodium bicarbonate (144-55-8)	
LC50 Fish 1	8250 - 9000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	2350 mg/l (Exposure time: 48 h - Species: Daphnia magna)



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Product Information**Product Name:** Bon Ami Cleanser (No Chlorine, Perfume or Dye)**Form:** powder

Product Category: Inside the Home » cleaner » Bathroom
Inside the Home » cleaner » Kitchen
Inside the Home » multipurpose » Cleaner

Customer Service: 800-846-1230**Date Entered:** 1996-08-21**Related Items:** [Products with similar usage in this database](#)**Manufacturer****Manufacturer:** Faultless Starch/Bon Ami Co.**Address:** 1025 W. 8th Street**City:** Kansas City**State:** MO**Zip Code:** 64101**Telephone Number:** 816-842-1230**Fax Number:** 816-842-3417**Toll Free Number:** 800-846-1230**Date Info Verified:** 2014-05-06**Related Items:** [Products by this manufacturer](#)

The following information (**Health Effects, Handling/Disposal, and Ingredients**) is taken from the product label and/or the Material Safety Data Sheet (MSDS) prepared by the manufacturer. The National Library of Medicine does not test products nor does it evaluate information from the product label or the MSDS. ([What is an MSDS?](#))

Health EffectsEnter text or highlight term...

Warnings: Eye irritant. In case of eye contact, flush thoroughly with water.
Keep out of reach of children.

Acute Health Effects: From MSDS

Inhalation: Not toxic according to Federal Hazardous Substance and Labeling Definition Act. Repeated prolonged inhalation of respirable dust in excess of the TLV may cause chronic respiratory disorders.

Eye Contact: Contains calcium carbonate which is a mild eye irritant.

Skin Contact: Not a skin irritant.

Ingestion: Unknown health risks

Medical Conditions Generally Aggravated by Exposure: Not known.

Chronic Health Effects: From MSDS

Repeated prolonged inhalation of respirable dust in excess of the TLV may cause chronic respiratory disorders.

Carcinogenicity: From MSDS

The ingredients in this product are not identified as carcinogens or potential carcinogens by NTP, IARC and OSHA.

Health Rating: 1**Flammability Rating:** 0**Reactivity Rating:** 0

HMIS Rating Scale: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe;
N = No information provided by manufacturer; * = Chronic Health Hazard

MSDS Date: 2001-11-22**Handling/Disposal**

Handling: From MSDS

Avoid breathing dust and getting into eyes. Read and follow label cautions carefully.

Disposal: From MSDS

Not a hazardous substance under the solid waste disposal act. May be buried in approved land disposal facility in accordance with federal, state and local regulations.

Ingredients from MSDS/Label

Chemical	CAS No / Unique ID	Percent
<u>Sodium carbonate</u>	000497-19-8	
<u>Calcium carbonate (Limestone)</u>	001317-65-3	
<u>Feldspar-group minerals</u>	068476-25-5	

Note: Brand names are trademarks of their respective holders.
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Last updated: August, 2014

MATERIAL SAFETY DATA SHEET
MSDS Q-119 REVISION 6

THE DIAL CORPORATION
DIAL CENTER FOR INNOVATION
15101 NORTH SCOTTSDALE ROAD
SCOTTSDALE, ARIZONA 85254-9934

MEDICAL EMERGENCIES: 1-888-689-9082
CHEMTREC: 1-800-424-9300 (24 Hours Daily)
OTHER INFORMATION: 1-888-468-6673

SUBSTANCE IDENTIFICATION

SUBSTANCE: BORAX

TRADE NAMES/SYNONYMS: **20 MULE TEAM® BORAX NATURAL LAUNDRY BOOSTER**

CHEMICAL FAMILY: Inorganic salt

I.D. NUMBERS: 929002

NFPA RATINGS (Scale 0-4, U=Unrated):

HEALTH=0 FIRE=0 REACTIVITY=0

HMIS RATINGS (Scale 0-4, where 4=severe hazard):

HEALTH=1 FIRE=0 REACTIVITY=0

This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission. The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this Material Safety Data Sheet differ from the requirements of the CPSC and as a result, this MSDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

HAZARDOUS INGREDIENTS INFORMATION

COMPONENT: SODIUM TETRABORATE DECAHYDRATE (BORAX)
10 mg/m³ OSHA TWA
5 mg/m³ ACGIH TWA

CAS# 1303-96-4

Carcinogen status of component: Not listed as a carcinogen by NTP, IARC, or OSHA.

PHYSICAL AND CHEMICAL DATA

DESCRIPTION: White, odorless, crystalline powder.

BULK DENSITY: 48 lbs/cubic ft

pH: 9.25 @ 20 °C (3% solution)

MELTING POINT: 144 °F (62 °C)

SOLUBILITY IN WATER: 5.8% @ 20 °C

SOLVENT SOLUBILITY: Soluble in glycerol; very slightly soluble in alcohol; insoluble in acids.

FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD - Product is not flammable, combustible or explosive.

FIRE FIGHTING MEDIA - Extinguish using agent suitable for type of surrounding fire. Product is fire retardant.

FIRE FIGHTING - No acute hazard.

HEALTH HAZARD DATA

NOTE: The acute health effects described below are those which could potentially occur for the finished product. They are based on the toxicology information available for the finished product and/or each hazardous ingredient, and are consistent with the product type and the likelihood of a specific route of exposure. Known chronic health effects related to exposure to a specific ingredient are indicated.

ACUTE HEALTH EFFECTS:

- INHALATION:** Dust may cause mucous membrane irritation with coughing, dryness and sore throat.
- SKIN CONTACT:** Non-irritating to intact skin. Absorption through large areas of damaged skin may produce symptoms similar to those following ingestion.
- EYE CONTACT:** Direct contact with powder or dusts may cause irritation with redness, pain, blurred vision, and possibly corneal injury.
- INGESTION:** May cause gastrointestinal disturbances such as headache nausea, vomiting, abdominal pain, and diarrhea, with delayed effects of skin redness and peeling.

CHRONIC HEALTH EFFECTS:

No chronic health effects are expected from the intended use of these products or from foreseeable handling of them in the workplace. Nonetheless, the following effects have been reported for a component, sodium borate, and boric acid. Sodium borate upon entry into the body becomes boric acid.

Sodium Borate: Sodium borate and boric acid interfere with sperm production, damage the testes and interfere with male fertility when given to animals by mouth at high doses. Boric acid produces developmental effects, including reduced body weight, malformations and death, in the offspring of pregnant animals given boric acid by mouth.

The above mentioned animal studies were conducted under exposure conditions leading to doses many times in excess of those that could occur through product use or inhalation of dust in occupational settings. Moreover, a human study of occupational exposure to sodium borate and boric acid dusts showed no adverse effect on fertility.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: Pre-existing skin conditions and respiratory illnesses (such as asthma).

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Immediately remove from exposure area to fresh air. Keep affected person warm and at rest. Treat symptomatically and supportively. Contact physician or local poison control center. If breathing has stopped, give artificial respiration, and get medical attention immediately.

SKIN CONTACT: Remove contaminated clothing and shoes. Rinse affected area with soap or a mild detergent and plenty of water until no evidence of product remains.

EYE CONTACT: Immediately rinse eyes with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persists.

INGESTION: Treat symptomatically and supportively. Maintain airway and respiration. If vomiting occurs, keep head in a position to prevent aspiration of vomitus. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.

REACTIVITY

REACTIVITY - Stable under normal temperatures and pressures.

INCOMPATIBILITIES: Strong oxidizers, acids, zirconium.

DECOMPOSITION - Thermal decomposition products may include toxic oxides of sodium and boron.

POLYMERIZATION - Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

STORAGE AND DISPOSAL

Store away from incompatible substances. Store in a cool dry place. Keep container tightly closed when not in use. Observe all federal, state and local regulations when storing or disposing of this substance.

CONDITIONS TO AVOID

Avoid generation of dust. If material is involved in a fire, it may melt to a glassy material which can flow in large quantities and ignite surrounding combustible materials.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL - Sweep up and place in suitable clean, dry containers for reclamation or later disposal. Small residual amounts of material may be flushed with water to the sewer. Keep unnecessary people away.

OCCUPATIONAL PROTECTIVE EQUIPMENT

VENTILATION - Provide local exhaust ventilation system to meet permissible exposure limits, where dusts are likely to be generated.

RESPIRATOR - Air contamination monitoring should be carried out, where dusts are likely to be generated, to assure that the employees are not exposed to harmful concentrations the above permissible exposure limits. If respiratory protection is required, it must be based on the contamination levels found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

FOR FIRE FIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS -

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

CLOTHING - Protective (impervious) clothing is required where repeated or prolonged skin contact may occur.

GLOVES - Chemical-resistant gloves are required where repeated or prolonged skin contact may occur.

EYE PROTECTION - Dust-proof safety glasses are required to prevent eye contact where dusty conditions are anticipated.

REGULATORY INFORMATION

DOT FLAMMABILITY CLASSIFICATION:	Not applicable.
EPA - SARA TITLE III SECTION 313:	Toxic chemical - None.
TSCA:	All components of this product are listed or are exempted or excluded from listing on the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, The Dial Corporation makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, The Dial Corporation will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either expressed or implied of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information set forth herein or to the product to which the information refers.

MSDS CREATION DATE: 03/13/89

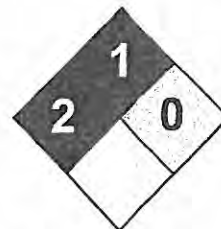
SUPERSEDES: Rev. 5; 06/03/04

REVISION DATE: 03/30/05

REVISION: Updated address information, hazardous ingredient information, physical and chemical data.



Science Lab.com
Chemicals & Laboratory Equipment



Health	2
Fire	1
Reactivity	0
Personal Protection	E

Material Safety Data Sheet

Castile soap MSDS

Section 1: Chemical Product and Company Identification

Product Name: Castile soap

Catalog Codes: SLC2275

CAS#: Not available.

RTECS: Not available.

TSCA: TSCA 8(b) inventory: No products were found.

CI#: Not available.

Synonym: Coconut oil, sodium soap

Chemical Name: Not available.

Chemical Formula: Not available.

Contact Information:

Sciencelab.com, Inc.

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Castile soap		100

Toxicological Data on Ingredients: Castile soap LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects:

Very hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

Potential Chronic Health Effects:

Very hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).
CARCINOGENIC EFFECTS: Not available. **MUTAGENIC EFFECTS:** Not available. **TERATOGENIC EFFECTS:** Not available.
DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact: Not available.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:

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.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Material in powder form, capable of creating a dust explosion.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

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.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Avoid contact with eyes. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible.

Storage:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Powdered solid.)

Odor: Not available.

Taste: Not available.

Molecular Weight: Not available.

Color: Tan.

pH (1% soln/water): Not available.

Boiling Point: Not available.

Melting Point: Not available.

Critical Temperature: Not available.

Specific Gravity: 1.05 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Not available.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

LD50: Not available. LC50: Not available.

Chronic Effects on Humans: The substance is toxic to lungs, mucous membranes.

Other Toxic Effects on Humans:

Very hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: No products were found.

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC): R41- Risk of serious damage to eyes.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

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

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/09/2005 04:35 PM

Last Updated: 05/21/2013 12:00 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 10.24.2014

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Lemon Juice

RCRA (hazardous waste code):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

None of the ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients are listed.

SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases: None

Abbreviations and Acronyms:

IMDG International Maritime Code for Dangerous Goods.

IATA International Air Transport Association.

GHS Globally Harmonized System of Classification and Labelling of Chemicals.

ACGIH American Conference of Governmental Industrial Hygienists.

CAS Chemical Abstracts Service (division of the American Chemical Society).

NFPA National Fire Protection Association (USA).

HMIS Hazardous Materials Identification System (USA).

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according to 29CFR1910/1200 and GHS Rev. 3

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Lemon Juice

WHMIS Workplace Hazardous Materials Information System (Canada).

DNEL Derived No-Effect Level (REACH).

PNEC Predicted No-Effect Concentration (REACH).

CFR Code of Federal Regulations (USA).

SARA Superfund Amendments and Reauthorization Act (USA).

RCRA Resource Conservation and Recovery Act (USA).

TSCA Toxic Substances Control Act (USA).

NPRI National Pollutant Release Inventory (Canada).

DOT US Department of Transportation.

Effective date: 10.24.2014

Last updated: 06.17.2015



The Procter & Gamble Company
P&G Household Care
Fabric & Home Care Innovation Center
5299 Spring Grove Avenue
Cincinnati, OH 45217-1087

MATERIAL SAFETY DATA SHEET

MSDS #: FH/H/2003/TWTA-5HRJZ8
Supersedes:

Issue Date: 7/2007
Issue Date: 5/2006

SECTION I - PRODUCT IDENTIFICATION

Identity: Mr Clean Magic Eraser (Original, Duo, Extra Strength, Auto) Finished Product
Brands: 1-800-248-1612 or call your Poison Control Center or your physician

P&G Telephone Number:

1-800-248-1612 or call your Poison Control Center or your physician .

SECTION II - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)

Ingestion: Blockage of the gastrointestinal tract may occur if swallowed. Do not ingest.

Eye Contact: Irritating to eyes.

Skin Contact: Moderately irritating to the skin. Prolonged / repeated contact may result in skin sensitization.

Inhalation: Ensure adequate ventilation.

Signs and Symptoms of Exposure:

Ingestion: May cause irritation and/or blockage of the gastrointestinal track.

Eye Contact: Dust from foam may cause mechanical irritation.

Skin: Dust from foam may cause mechanical irritation.

Inhalation: Dust from foam may cause irritation of the respiratory track.

Medical Conditions Generally Known to be Aggravated by Exposure: None

Potential Environmental Effects: (See Section 12 for more information)

SECTION III - COMPOSITION AND INGREDIENTS				
Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:				
<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition</u> <u>Range</u>	<u>LD50/LC50</u>
NONE				

SECTION IV – FIRST AID INFORMATION	
First Aid Procedures:	
Ingestion:	If foam is ingested, contact a physician or veterinarian immediately. Intestinal blockage may be life threatening to some household pets..
Eye Contact:	In case of eye irritation, flush thoroughly with water for 15 minutes. If irritation persists, seek medical advice.
Skin:	In case of skin irritation, flush affected area thoroughly with water and apply a cold compress. If irritation persists, seek medical advice. Remove any contaminated clothing.
Inhalation:	If respiratory irritation occurs, moving from the site of exposure to an area with fresh air. If irritation persists, seek medical advice.
Note to Physician: (if applicable)	
Other: Consumer product package has the following precautionary statement: Consumer product package has the following precautionary statement: "Caution: keep out of reach of children. Keep out of reach of toddlers and pets to avoid accidental ingestion. Do not use on skin or other parts of the body. Using on skin will likely cause abrasions."	

SECTION V - FIRE FIGHTING INFORMATION	
Flash Point (Method Used): Closed Cup FP	
Flashpoint: 1076°F (5806°C)	
This product does not sustain combustion when exposed to an open flame.	
Flammable Properties:	
Upper Flammable Limit: unknown	
Lower Flammable Limit: unknown	
Explosive Limits:	UEL: unknown LEL:unknown
Auto-ignition Temperature: Unknown	
Hazardous Combustion Products: Unknown	
Explosion Data (Sensitivity to Mechanical Impact): NA	
Explosion Data (Sensitivity to Static Discharge): NA	
Extinguishing Media:	
Suitable: Regular dry chemical, carbon dioxide, water, regular foam. For large fires use regular foam or flood with fine water spray.	
Unsuitable:	
Protection of Firefighters:	
Specific Hazards Arising from the Material: None known	
Protective Equipment and Precautions for Firefighters:	

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None known

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL REGULATIONS.

Methods for Containment: Collect spilled material in an appropriate container for disposal.

Methods for Cleanup: Keep out of water supplies and sewer.

Other Information: (if applicable) NA

SECTION VII - HANDLING AND STORAGE

Precautions To Be Taken in Handling: None known

Precautions To Be Taken in Storage: None known

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: Workplace should have sufficient general.

Engineering Controls: Provide local ventilation.

Personal Protective Equipment (PPE):

Eye/Face Protection: Provide emergency eyewash fountain and quick drench shower in the work area.

Skin Protection: Do not rub on skin, foam can cause abrasion to skin

Respiratory Protection: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. (Any chemical cartridge respirator with an organic vapor cartridge, dust and mist filter(s)).

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape):

Original, Duo, Extra Strength, Auto – white foam

Duo - white and blue foam

Odor: None

Odor Threshold: Not applicable

Physical State: Liquid

Vapor Pressure (mm Hg): Below 2 mm Hg

Vapor Density (Air=1): NK

Boiling Point: NK

Partition Coefficient (n-octanol/water): NK

Volatile Organic Compound (VOC): Not applicable - Product not regulated for VOC Content at State or Federal level.

Flash Point (Method Used): This material does not sustain combustion in open flame testing.

Reserve Alkalinity: NK

Solubility in Water: NK

Decomposition Temperature: NK

Evaporation Rate (nBuOAc=1): NK

Specific Gravity/Density: NK

Melting/Freezing Point: NK

pH ():: NK

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable at normal temperatures and pressures

Conditions to Avoid: Avoid heat, flames, sparks, and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials: Avoid contact with strong oxidizers.

Hazardous Decomposition Products: Oxides of carbon, oxides of sulfur, aromatic compounds, formaldehyde, hydrogen cyanide.

Possibility of Hazardous Reactions: No systemic effects expected.

SECTION XI - TOXICOLOGICAL INFORMATION

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: This finished consumer product is not carcinogenic.

NTP: No

IARC: No

SECTION XII - ECOLOGICAL INFORMATION

This product is expected to be safe at relevant environmental concentrations. It is intended for dispersive use and should not be disposed of directly into the environment. The article, packaging, or container is compatible with municipal solid waste systems and will not pose a hazard to the environment when the waste is properly handled.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Disposal is to be performed in compliance with federal, state/provincial and local regulations.

Non-Household Setting (US Federal):

Product covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste according to the federal RCRA Regulation (40CFR261). Disposal should be in accordance with the local, state and federal regulations.

Non-Household Setting (California): No

Household Use:

Product used in household may be disposed of in refuse.

SECTION XIV - TRANSPORT INFORMATION

Ground Transport (US DOT): Not regulated

Air Transport (IATA): Not regulated

Marine/Water Transport (IMDG): Not regulated

SECTION XV - REGULATORY INFORMATION

United States

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

EPA Registration Number: Not Applicable

SARA 313/302/304/311/312 chemicals: None

California: This product has been evaluated and does not require warning labeling under California Proposition 65.

California Registration Number: Not Applicable

State Right-to-Know and CERCLA:

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists

Ingredient	CAS #	Level	CERCLA RQ	State				
				IL	MA	NJ	PA	RI
NONE								

Canada

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

SECTION XVI - OTHER INFORMATION

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating:	Health:	1	4=EXTREME
	Flammability:	2	3=HIGH
	Reactivity:	1	2=MODERATE
			1=SLIGHT
			0=NOT SIGNIFICANT

*N/A. - Not Applicable

*N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

DISCLAIMER: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.



COLGATE-PALMOLIVE Company
MATERIAL SAFETY DATA SHEET

MURPHY OIL SOAP LIQUID - ORIGINAL

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

Version 1.0

Revision Date 09/21/2012

Print Date 10/09/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : MURPHY OIL SOAP LIQUID - ORIGINAL
MSDS Number : 200000028236
CAS-No. : Not applicable - product is a mixture
General Use : A formulated multi-purpose cleaner

Company : Colgate-Palmolive Canada Inc.
Two Morneau Shepell Centre, 6th Fl.
895 Don Mills Road
Toronto, Ontario, M3C 1W3, Canada

Telephone :
Emergency telephone number : For emergencies involving spill, leak, fire, exposure or accident call CHEMTREC (24hr) at (800) 424-9300 or (703) 527-3887.

Medical Emergency (24HR): For MEDICAL EMERGENCIES involving this product call: (888) 489-3861

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form : Liquid
Appearance : Amber
Odour : Characteristic

Potential Health Effects

Eye contact : Causes eye irritation on direct contact.
Skin contact : May cause skin irritation upon prolonged contact.
Inhalation : No adverse effects due to inhalation are expected.
Ingestion : May be harmful if swallowed in large quantities.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

OSHA-REGULATED COMPONENTS (present at a concentration of > or = 1%)

Chemical Name	CAS-No.	Concentration *
SODIUM HYDROXIDE	1310-73-2	1.00 - 5.00



MURPHY OIL SOAP LIQUID - ORIGINAL

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Version 0.0

Revision Date 00/00/0000

Print Date 10/09/2012

*All concentrations are present by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Carcinogenicity:

Listed Carcinogens: The following components, present at a concentration of > or = 0.1%, are listed as carcinogens or potential carcinogens by either the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), OSHA or ACGIH

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

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

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

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

SECTION 4. FIRST AID MEASURES

First aid procedures

- | | |
|---------------------|--|
| Eye contact | : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists. |
| Skin contact | : Flush skin with large amounts of water. If irritation develops and persists, get medical attention. |
| Inhalation | : Remove victim to fresh air. Get medical attention, if symptoms persist. |
| Ingestion | : Drink 8 ounces of clear water. Get medical attention. |

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

Flash point : > 200 °F (> 93 °C)

Fire fighting

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

Protective equipment and precautions for firefighters

Special protective : Self-contained breathing apparatus and full protective clothing



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equipment for firefighters

should be worn when fighting chemical fires.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protection recommended in Section 8 of the MSDS.

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

SECTION 7. HANDLING AND STORAGE

Storage

**Requirements for storage
areas and containers** : Store at controlled room temperature at 20-25°C (68-77°F).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Chemical Name	CAS-No.	Value	Exposure Limits	Source	Notes
SODIUM HYDROXIDE	1310-73-2	Ceiling	2 mg/m3	ACGIH	
		Ceil_Ti me	2 mg/m3	NIOSH/GUIDE	
		PEL	2 mg/m3	OSHA_TRANS	
		Ceiling	2 mg/m3	Z1A	

Engineering Controls

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

Personal protective equipment

Protective measures

: In an industrial work environment, if a splash is likely, chemical goggles may be needed. Prolonged skin contact



MURPHY OIL SOAP LIQUID - ORIGINAL

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may require protective gloves. For consumer use, no unusual precautions are necessary.

General Hygiene Considerations

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
Appearance	: Amber
Odour	: Characteristic
Flash point	: > 200 °F (> 93 °C)
pH	: 11.0
Density	: 1.0 g/cm ³
Viscosity, dynamic	: 400 mPa.s

SECTION 10. STABILITY AND REACTIVITY

Materials to avoid	: Remarks: Strong oxidizing agents
Hazardous decomposition products	: Note: None known.
Hazardous reactions	: Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

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

SECTION 12. ECOLOGICAL INFORMATION

No data available



COLGATE-PALMOLIVE Company
MATERIAL SAFETY DATA SHEET

MURPHY OIL SOAP LIQUID - ORIGINAL

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Version 0.0

Revision Date 00/00/0000

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SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

DOT : Not regulated.

TDG : Not regulated.

IATA : Not regulated.

IMDG : Not regulated.

SECTION 15. REGULATORY INFORMATION

US Regulations

SARA

Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A) : Not listed

Section 313 Toxic Release Inventory (40 CFR 372) : Not listed

CERCLA Hazardous Substance List (40 CFR 302.4) - Reportable Quantity : 64516 lbs

SODIUM HYDROXIDE

Clean Air Act

Clean Water Act



COLGATE-PALMOLIVE Company
MATERIAL SAFETY DATA SHEET

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Version 0.0

Revision Date 00/00/0000

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**Clean Water Act Section 311
Hazardous Substances (40 CFR
117.3)** : SODIUM HYDROXIDE

State Regulations

**Massachusetts Right-To-
Know List** : SODIUM HYDROXIDE
TRISODIUM NITRILOTRIACETATE

**New Jersey Right-To-
Know List** : WATER
SODIUM HYDROXIDE
Sodium tallate

**Pennsylvania Right-To-
Know List** : WATER
SODIUM HYDROXIDE
Sodium tallate

Canada

**Canadian Workplace Hazardous Materials
Information System (WHMIS) Listed Material** : SODIUM HYDROXIDE

Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Other Information

TSCA Section 8(b) Status : All ingredients in this product are listed on the TSCA Inventory or are not required to be listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

Further information

MSDS Number : 200000028236



COLGATE-PALMOLIVE Company
MATERIAL SAFETY DATA SHEET

MURPHY OIL SOAP LIQUID - ORIGINAL

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Version 0.0

Revision Date 00/00/0000

Print Date 10/09/2012

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

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 7647-14-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7647-14-5: acute.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7647-14-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 7647-14-5: 0

Canada

CAS# 7647-14-5 is listed on Canada's DSL List. CAS# 7647-14-5 is listed on Canada's DSL List. This product has a WHMIS classification of D2B.

CAS# 7647-14-5 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

Section 16 - Additional Information

MSDS Creation Date: 7/12/1999

Revision #3 Date: 8/14/2001

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

Section 1: IDENTIFICATION**Product Name:** Simple Green® All-Purpose Cleaner**Additional Names:****Manufacturer's Part Number:** **Please refer to Section 16***Recommended Use:** Cleaner & Degreaser for water tolerant surfaces.**Restrictions on Use:** Do not use on non-rinsable surfaces.**Company:** Sunshine Makers, Inc.
15922 Pacific Coast Highway
Huntington Beach, CA 92649 USA**Telephone:** 800-228-0709 • 562-795-6000 Mon – Fri, 8am – 5pm PST**Fax:** 562-592-3830**Email:** info@simplegreen.com**Emergency Phone:** Chem-Tel 24-Hour Emergency Service: 800-255-3924**Section 2: HAZARDS IDENTIFICATION****This product is not classified as hazardous under 2012 OSHA Hazard Communication Standards (29 CFR 1910.1200).**OSHA HCS 2012Label Elements**Signal Word:** None**Hazard Symbol(s)/Pictogram(s):** None required**Hazard Statements:** None**Precautionary Statements:** None**Hazards Not Otherwise Classified (HNOC):** None**Other Information:** None Known**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Ingredient</u>	<u>CAS Number</u>	<u>Percent Range</u>
Water	7732-18-5	> 84.8%*
Ethoxylated Alcohol	68439-46-3	< 5%*
Sodium Citrate	68-04-2	< 5%*
Tetrasodium N,N-bis(carboxymethyl)-L-glutamate	51981-21-6	< 1%*
Sodium Carbonate	497-19-8	< 1%*
Citric Acid	77-92-9	< 1%*
Isothiazolinone mixture	55965-84-9	< 0.2%*
Fragrance	Proprietary Mixture	< 1%*
Colorant	Proprietary Mixture	< 1%*

specific percentages of composition are being withheld as a trade secret*Section 4: FIRST-AID MEASURES****Inhalation:** Not expected to cause respiratory irritation. If adverse effect occurs, move to fresh air.**Skin Contact:** Not expected to cause skin irritation. If adverse effect occurs, rinse skin with water.**Eye Contact:** Not expected to cause eye irritation. If adverse effect occurs, flush eyes with water.**Ingestion:** May cause upset stomach. Drink plenty of water to dilute. See section 11.**Most Important Symptoms/Effects, Acute and Delayed:** None known.**Indication of Immediate Medical Attention and Special Treatment Needed, if necessary:** Treat symptomatically

Section 5: FIRE-FIGHTING MEASURES

Suitable & Unsuitable Extinguishing Media: Use Dry chemical, CO₂, water spray or "alcohol" foam. Avoid high volume jet water.
Specific Hazards Arising from Chemical: In event of fire, fire created carbon oxides may be formed.
Special Protective Actions for Fire-Fighters: Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

This product is non-flammable. See Section 9 for Physical Properties.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: For non-emergency and emergency personnel: See section 8 – personal protection. Avoid eye contact. Safety goggles suggested.

Environmental Precautions: Do not allow into open waterways and ground water systems.

Methods and Materials for Containment and Clean Up: Dike or soak up with inert absorbent material. See section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling: Ensure adequate ventilation. Keep out of reach of children. Keep away from heat, sparks, open flame and direct sunlight. Do not pierce any part of the container. Do not mix or contaminate with any other chemical. Do not eat, drink or smoke while using this product.

Conditions for Safe Storage including Incompatibilities: Keep container tightly closed. Keep in cool dry area. Avoid prolonged exposure to sunlight. Do not store at temperatures above 109°F (42.7°C). If separation occurs, mix the product for reconstitution.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values: No components listed with TWA or STEL values under OSHA or ACGIH.

Appropriate Engineering Controls: Showers, eyewash stations, ventilation systems

Individual Protection Measures / Personal Protective Equipment (PPE)

Eye Contact: Use protective glasses or safety goggles if splashing or spray-back is likely.
Respiratory: Use in well ventilated areas or local exhaust ventilations when cleaning small spaces.
Skin Contact: Use protective gloves (any material) when used for prolonged periods or dermally sensitive.
General Hygiene Considerations: Wash thoroughly after handling and before eating or drinking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green Liquid	Partition Coefficient: n-octanol/water:	Not determined
Odor:	Added sassafras odor	Autoignition Temperature:	Non-flammable
Odor Threshold:	Not determined	Decomposition Temperature:	109°F
pH ASTM D-1293:	8.5 – 9.5	Viscosity:	Like water
Freezing Point ASTM D-1177:	0-3.33°C (32-38°F)	Specific Gravity ASTM D-891:	1.01 – 1.03
Boiling Point & Range ASTM D-1120:	101°C (213.8°F)	VOCs:	**Water & fragrance exemption in calculation
Flash Point ASTM D-93:	> 212°F	SCAQMD 304-91 / EPA 24:	0 g/L 0 lb/gal 0%
Evaporation Rate ASTM D-1901:	½ Butyl Acetate @ 25°C	CARB Method 310**:	2.5 g/L 0.021 lb/gal 0.25%
Flammability (solid, gas):	Not applicable	SCAQMD Method 313:	Not tested
Upper/Lower Flammability or Explosive Limits:	Not applicable	VOC Composite Partial Pressure:	Not determined
Vapor Pressure ASTM D-323:	0.60 PSI @77°F, 2.05 PSI @100°F	Relative Density ASTM D-4017:	8.34 – 8.42 lb/gal
Vapor Density:	Not determined	Solubility:	100% in water

Section 10: STABILITY AND REACTIVITY

Reactivity:	Non-reactive.
Chemical Stability:	Stable under normal conditions 70°F (21°C) and 14.7 psig (760 mmHg).
Possibility of Hazardous Reactions:	None known.
Conditions to Avoid:	Excessive heat or cold.
Incompatible Materials:	Do not mix with oxidizers, acids, bathroom cleaners, or disinfecting agents.
Hazardous Decomposition Products:	Normal products of combustion - CO, CO ₂ .

Section 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Inhalation -	Overexposure may cause headache.
	Skin Contact -	Not expected to cause irritation, repeated contact may cause dry skin.
	Eye Contact -	Not expected to cause irritation.
	Ingestion -	May cause upset stomach.

Symptoms related to the physical, chemical and toxicological characteristics: no symptoms expected under typical use conditions.

Delayed and immediate effects and or chronic effects from short term exposure: no symptoms expected under typical use conditions.

Delayed and immediate effects and or chronic effects from long term exposure: headache, dry skin, or skin irritation may occur.

Interactive effects: Not known.

Numerical Measures of Toxicity

Acute Toxicity:	Oral LD ₅₀ (rat)	> 5 g/kg body weight
	Dermal LD ₅₀ (rabbit)	> 5 g/kg body weight

Calculated via OSHA HCS 2012 / Globally Harmonized System of Classification and Labelling of Chemicals

Skin Corrosion/Irritation:	Non-irritant per Dermal Irritation® assay modeling. No animal testing performed.
Eye Damage/Irritation:	Minimal irritant per Ocular Irritation® assay modeling. No animal testing performed.
Germ Cell Mutagenicity:	Mixture does not classify under this category.
Carcinogenicity:	Mixture does not classify under this category.
Reproductive Toxicity:	Mixture does not classify under this category.
STOT-Single Exposure:	Mixture does not classify under this category.
STOT-Repeated Exposure:	Mixture does not classify under this category.
Aspiration Hazard:	Mixture does not classify under this category.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.
Aquatic:	Aquatic Toxicity - Low, based on OECD 201, 202, 203 + Microtox: EC ₅₀ & IC ₅₀ ≥100 mg/L. Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.
Terrestrial:	Not tested on finished formulation.
Persistence and Degradability:	Readily Biodegradable per OCED 301D, Closed Bottle Test
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.

Section 13: DISPOSAL CONSIDERATIONS

Unused or Used Liquid: May be considered hazardous in your area depending on usage and tonnage of disposal – check with local, regional, and or national regulations for appropriate methods of disposal.

Empty Containers: May be offered for recycling.

Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

Section 14: TRANSPORT INFORMATION

U.N. Number: Not applicable
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Marine Pollutant - NO
U.N. Proper Shipping Name: Cleaning Compound, Liquid NOI
NMFC Number: 48580-3
Class: 55
Transport in Bulk (according to Annex II of MARPOL 73/78 and IBC Code): Unknown.
Special precautions which user needs to be aware of/comply with, in connection with transport or conveyance either within or outside their premises: None known.

U.S. (DOT) / Canadian TDG: Not Regulated for shipping.
IMO / IDMG: Not classified as Hazardous
ICAO/ IATA: Not classified as Hazardous
ADR/RID: Not classified as Hazardous

Section 15: REGULATORY INFORMATION

All components are listed on: TSCA and DSL Inventory.

SARA Title III: Sections 311/312 Hazard Categories – Not applicable.
 Sections 313 Superfunds Amendments and Reauthorizations Act of 1986 – Not applicable.
 Sections 302 – Not applicable.

Clean Air Act (CAA): Not applicable

Clean Water Act (CWA): Not applicable

State Right To Know Lists: No ingredients listed

California Proposition 65: No ingredients listed

Texas ESL:

Ethoxylated Alcohol	68439-46-3	60 µg/m³ long term	600 µg/m³ short term
Sodium Citrate	68-04-2	5 µg/m³ long term	50 µg/m³ short term
Sodium Carbonate	497-19-8	5 µg/m³ long term	50 µg/m³ short term
Citric Acid	77-92-9	10 µg/m³ long term	100 µg/m³ short term

Section 16: OTHER INFORMATION

Size	UPC	Size	UPC
2 oz. Pump	043318130366	1 Gallon w/ Dilution Bottle	043318000669
2 oz. Pump	043318131035	1 Gallon	043318000799
4 oz. Pump	043318130014	1 Gallon w/ Dilution Bottle	043318001383
16 oz. Trigger	043318130021	1 Gallon w/ Dilution Bottle	043318002021
22 oz. Trigger	043318130229	1 Gallon	043318130052
24 oz. Trigger, 12 per case	043318000034	1 Gallon w/ Dilution Bottle, 112 per case	043318480140
24 oz. Trigger	043318000300	1 Gallon w/ Dilution Bottle, 4 per case	043318480416
24 oz. Trigger	043318130137	1 Gallon w/ Dilution Bottle, 24 per case	043318480492
32 oz. Trigger	043318000652	1 Gallon w/ laundry	043318002052
32 oz. Trigger	043318130335	1 Gallon w/ towel	043318001222
67.6 oz.	043318000393	140 oz.	043318001390
67.6 oz.	043318130144	140 oz., 168 per case	043318561405
1 Gallon w/ Dilution Bottle	043318000539	140 oz. w/ Dilution Bottle	043318001468
1 Gallon w/ Dilution Bottle	043318000645		

USA items listed only. Not all items listed. USA items may not be valid for international sale.



Section 16: OTHER INFORMATION - continued

NFPA:

Health – None

Flammability – Non-flammable

Stability – Stable

Special – None



Acronyms

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

TSCA Toxic Substances Control Act

IARC

CPSC

DSL

International Agency for Research on Cancer

Consumer Product Safety Commission

Domestic Substances List

Prepared / Revised By: Sunshine Makers, Inc., Regulatory Department.

This SDS has been revised in the following sections: Revised SDS layout

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

VINEGAR

Material Safety Data Sheet

I. Product Identification

REPACKAGED by: RO
1651 Wall St
Garland, TX 75041

Regular Tel. # 972-864-1934
Fax # 972-864-0128

ADDRESS: 1651 Wall St. Garland, TX 75041

SYNONYMS: Rohde's Services Inc.

EMERGENCY ASSISTANCE

For emergency assistance involving chemicals call - CHEMTREC
800-424-9300

MATERIAL OR COMPONENT

DOT SHIPPING AND HAZARD CLASSIFICATION: This product contains hazardous materials as defined by the OSHA Hazard communication Standard 29 CFR 1910, 1200.

Chemical name & formula: Concentrated Acetic Acid CH_3COOH

Trade Name: White Vinegar 20% Solution

' S No.: 64-19-7

CAS Registry No.: 8028-52-2

Definition: Product made by the acetous fermentation of ethyl alcohol
containing 11 to 30% acetic acid (or 110 to 300 grain vinegar.)

III. PHYSICAL DATA

BOILING POINT: 244 degrees F

SPECIFIC GRAVITY @ 1.01 -

VAPOR DENSITY (AIR=1)

%VOLATILES BY VOL: 100%

MELTING POINT (Acetic Acid) 62 degrees F

VAPOR PRESSURE (MM Hg): 11MM

SOLUBILITY IN H2O: Complete

BULK DENSITY

APPEARANCE AND ODOR: Appropriate color and odor for type of vinegar

IV. FIRE & EXPLOSION DATA

FLASH POINT: 40 deg. C. Closed cup (Acetic Acid)

UTOIGNITION TEMPERATURE: 427 degrees C. (Acetic Acid)

AMABLE LIMITS IN AIR : 4.0% - 16% (Acetic Acid)

EXTINGUISHING MEDIA: Water spray, foam CO_2 , or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Water may be used to dilute spills and reduce flammability
UNUSUAL FIRE AND EXPLOSION HAZARDS: Toxic gasses and vapors may be released in a fire involving concentrated vinegar.

V. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVER EXPOSURE

INHALATION: Threshold Limit value: 10 PPM
Short Term Exposure Limit: 15 PPM for 15 minutes
Odor Threshold: 0.037 – 0.15 PPM

Inhalation of vapors can cause irritation to respiratory tract. Avoid inhalation.

SKIN CONTACT: Contact may cause mild injury and burns from vinegars of 11% acetic acid and greater. Dilute solutions may cause dermatitis in some individuals.

EYE CONTACT: May cause severe burns and permanent corneal injury from concentrated vinegars. May be followed by blindness. High vapor concentrations may result in conjunctivitis.

INGESTION: Concentrated vinegars may cause pain, irritation and burns in mouth, gullet and stomach.

REPRODUCTIVE HAZARDS: Not a reproductive hazard.

EMERGENCY FIRST AID PROCEDURES

EYES: Flush immediately and thoroughly with water.

SKIN: Flush immediately and thoroughly with water.

INHALATION: If vapors are inhaled extensively, exposed person should be removed to fresh air immediately.

INGESTION: If swallowed, water should be consumed to dilute. Do not induce vomiting. Do not give emetics or baking soda. Call a physician.

SUSPECTED CANCER AGENT?

NO: This product's ingredients are not found in the list below.

YES: ___Federal OSHA___NTP___IARC___TX/OSHA

NOTES TO PHYSICIAN:

VII. SPILL, LEAK & DISPOSAL PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

inegar is spilled: dike or contain, ventilate area, dilute with water. May be neutralized with addition of dilute alkaline solutions of soda, ash, or lime.

Vinegar

Do not flush to streams or sewers.

Protect skin and eyes from exposure. Avoid breathing vapor.

WASTE DISPOSAL METHODS:

Treatment or disposal of waste generated by use of vinegar should be reviewed in terms of applicable federal, state and local laws and regulations. Users are advised to consult with appropriate regulatory agencies before discharge, treatment or disposal.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection:

As required to prevent exposure to concentrations which exceed the permissible level. When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection. Under normal use conditions, with adequate ventilation, no special handling equipment is required.

Ventilation Requirements:

Local exhaust recommended.
Mechanical recommended.

Eyes And Face: Safety glasses or plastic face shield required.

Hands, Arms, Body: Rubber or neoprene gloves recommended.

Rubber apron or other protective equipment as required to reduce direct contact.

Other Equipment: Eye wash station, safety shower.

IX. SPECIAL PRECAUTIONS

PRECAUTIONARY STATEMENTS

Avoid contact with eyes. Do not ingest.

OTHER HANDLING AND STORAGE REQUIREMENTS

Product may expand slightly in storage causing pressure to build in container. Open container carefully if product appears to be under pressure. Drum lining may occasionally chip and fall to bottom of container after long storage or excessive handling. AS a precaution, pour liquid through filter/ strainer to catch small pieces of liner before blending or repackaging. Commercially clean empty containers before re-use.

Vinegar

CAUTION: Do not weld or cut empty containers. VAPORS MAY IGNITE.

PREPARED BY: RO
ADDRESS: 1651 WALL ST.
GARLAND, TX 75041
TELEPHONE: (972) 864-1934
DATE December 14, 2002

All information, recommendations and suggestions herein concerning this product are based upon data believed to be reliable. However it is the users responsibility to determine the safety, toxicity and suitability for his/her own use of this product. Since the actual use of others is beyond our control, we make no guarantee expressed or implied as to the effects of such use, the results to be obtained, or the safety and toxicity of the product. This information is not to be construed as absolutely complete, since additional information may be necessary of desirable when exceptional conditions or circumstances exist or because of applicable laws or government regulations.

MATERIAL SAFETY DATA SHEET



Oxivir Tb

HMIS		NFPA	Personal protective equipment
Health	0	0	None / Aucune / Ninguno
Fire Hazard	0	0	
Reactivity	0	0	

Version Number: 2

Preparation date: 2008-12-05

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Oxivir Tb
 MSDS #: MS0200014
 Product Code: 4277285, 4277293
 Recommended use: Disinfectant / Deodorizer / Sanitizer.

Manufacturer, importer, supplier:
 US Headquarters
 JohnsonDiversey, Inc.
 8310 16th St.
 Sturtevant, Wisconsin 53177-1964
 Phone: 1-888-352-2249
 MSDS Internet Address:
 www.johnsondiverse.com

Canadian Headquarters
 JohnsonDiversey - Canada, Inc.
 2401 Bristol Circle
 Oakville, Ontario L6H 6P1
 Phone: 1-800-668-3131

Emergency telephone number: 1-800-851-7145 (U.S.); 1-651-917-6133 (Int'l)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Principle routes of exposure: Eye contact. Skin contact. Inhalation. Ingestion.
 Eye contact: None known.
 Skin contact: None known.
 Inhalation: None known.
 Ingestion: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Ingredient(s)	CAS #	Weight %	LD50 Oral - Rat (mg/kg)	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
Hydrogen peroxide	7722-84-1	0.1 - 1.5%	801	~2000 mg/kg	2 mg/L (4 h)

4. FIRST AID MEASURES

Eye contact: Rinse with plenty of water.
 Skin contact: Rinse with plenty of water.
 Inhalation: No specific first aid measures are required.
 Ingestion: No specific first aid measures are required.
 Aggravated Medical Conditions: None known.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, water spray, foam, carbon dioxide.
 Specific hazards: Not applicable
 Unusual hazards: None known
 Specific methods: No special methods required

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

Extinguishing media which must not be used for safety reasons: No information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions and clean-up methods:

Use appropriate containment to avoid environmental contamination. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Keep in suitable and closed containers for disposal. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling:

Handle in accordance with good industrial hygiene and safety practice. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

Storage:

Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

No special ventilation requirements.

Personal Protective Equipment

Eye protection:

No special requirements under normal use conditions.

Hand protection:

No special requirements under normal use conditions.

Skin and body protection:

No special requirements under normal use conditions.

Respiratory protection:

No special requirements under normal use conditions.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
Hydrogen peroxide	7722-84-1	1 ppm (TWA)	1 ppm (TWA) 1.4 mg/m ³ (TWA)	2 ppm (STEL) 3 mg/m ³ (STEL) 1.5 mg/m ³ (TWA) 1 ppm (TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Bulk density:	No information available
pH:	3	Dilution pH:	No information available.
Appearance:	Aqueous solution	Vapor density:	No information available
Color:	Colorless	Evaporation Rate	No information available
Odor:	Characteristic	Boiling point/range:	Not determined
Specific gravity:	1.01	Melting point/range:	Not determined
Density:	8.42 lbs/gal	Decomposition temperature:	Not determined
VOC:	0.0% *	Autoignition temperature:	No information available
Flash point:	200°F 93.3°C	Partition coefficient (n-octanol/water):	No information available
Solubility:	Completely Soluble	Solubility in other solvents:	No information available
Viscosity:	No information available	Elemental Phosphorus:	0.12% by wt.

Explosion limits: - lower: Not determined- upper: Not determined

* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

10. STABILITY AND REACTIVITY

Stability:	The product is stable
Polymerization:	Hazardous polymerization does not occur
Hazardous decomposition products:	None reasonably foreseeable.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Oral, Dermal LD50 estimated to be greater than 5000 mg/kg.
Component information:	See Section 3
Chronic toxicity:	None known
Specific effects	
Carcinogenic effects:	None known
Mutagenic effects:	None known
Reproductive toxicity:	None known
Target organ effects:	None known

Hazardous ingredients

Ingredient(s)	CAS #	NTP	IARC	OSHA
Hydrogen peroxide	7722-84-1		3	

12. ECOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

Environmental Information:

No data available

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food, or feed by storage or disposal

Waste from residues / unused products:

PESTICIDAL WASTE - Observe all applicable Federal/Provincial/State regulations and Local/Municipal ordinances regarding disposal of pesticide wastes.

Pesticide Storage:

Store in original container in areas inaccessible to children. Open dumping is prohibited. Do not reuse empty container

Pesticide Disposal:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law

Container Disposal:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by State and local authorities burn. If burned, stay out of smoke

14. TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

15. REGULATORY INFORMATION

International Inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (ECL), Philippines (PICCS), New Zealand (NZIoC), Canada (DSL), Canada (NDSL), China (IECSC), TSCA 12B.

U.S. Regulations

EPA Reg. No.: 70627-56

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

CERCLA/ SARA

Ingredient(s)	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Hydrogen peroxide	7722-84-1	0.1 - 1.5%		1000	

SARA 311/312 Hazard Categories

Immediate:	N
Delayed:	N
Fire:	N
Reactivity:	N
Sudden Release of Pressure:	N

16. OTHER INFORMATION

Reason for revision:

Not applicable

Prepared by:

NAPRAC

Additional advice:

None

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

MATERIAL SAFETY DATA SHEET



Alpha HP Multi-Surface Cleaner

HMIS		NFPA	Personal protective equipment
Health	2	2	None / Aucune / Ninguno
Fire Hazard	0	0	
Reactivity	0	0	

Version Number: 3

Preparation date: 2009-08-13

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Alpha HP Multi-Surface Cleaner

MSDS #: MS0300392

Product Code: 3350743, 3350727, 3737690, 3401512, 5271213

Recommended use: Acid Cleaner. This product is intended to be diluted prior to use.

Manufacturer, importer, supplier:

US Headquarters
JohnsonDiversey, Inc.
8310 16th St.
Sturtevant, Wisconsin 53177-1964
Phone: 1-888-352-2249
MSDS Internet Address:
www.johnsondiversey.com

Canadian Headquarters
JohnsonDiversey - Canada, Inc.
2401 Bristol Circle
Oakville, Ontario L6H 6P1
Phone: 1-800-668-3131

Emergency telephone number: 1-800-851-7145 (U.S.); 1-651-917-6133 (Int'l)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION: CAUSES EYE IRRITATION. MAY BE MILDLY IRRITATING TO SKIN.

Principle routes of exposure: Eye contact. Skin contact. Inhalation.
Eye contact: Moderately irritating to the eyes.
Skin contact: May be mildly irritating to skin.
Inhalation: None known.
Ingestion: May cause irritation to mouth, throat and stomach.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Ingredient(s)	CAS #	Weight %	LD50 Oral - Rat (mg/kg)	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
Dodecylbenzene sulfonic acid	68584-22-5	5 - 10%	530	Not available	Not available
Hydrogen peroxide	7722-84-1	1 - 5%	801	~2000 mg/kg	2 mg/L (4 h)

4. FIRST AID MEASURES

Eye contact: Flush immediately with plenty of water. If irritation persists, get medical attention.
Skin contact: Flush immediately with plenty of water. If irritation develops, get medical attention.
Inhalation: No specific first aid measures are required.
Ingestion: If swallowed, give a cupful of water or milk.
Aggravated Medical Conditions: None known.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: The product is not flammable. Extinguish fire using agent suitable for surrounding fire.
Specific hazards: Decomposition releases oxygen, which may intensify fire.
Unusual hazards: None known
Specific methods: No special methods required

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

Extinguishing media which must not be used for safety reasons: No information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Not relevant for the product itself.

Alpha HP Multi-Surface Cleaner

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions and clean-up methods:

Clean-up methods - large spillage. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling:

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Mix only with water. DO NOT MIX WITH AMMONIA, BLEACH, OR OTHER CHLORINATED COMPOUNDS. May react to release hazardous gases. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

Storage:

Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

No special ventilation requirements. General room ventilation is adequate.

Personal Protective Equipment

Eye protection:

No special requirements under normal use conditions.

Hand protection:

No special requirements under normal use conditions.

Skin and body protection:

No special requirements under normal use conditions.

Respiratory protection:

No special requirements under normal use conditions.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice

Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
Hydrogen peroxide	7722-84-1	1 ppm (TWA)	1 ppm (TWA) 1.4 mg/m ³ (TWA)	2 ppm (STEL) 3 mg/m ³ (STEL) 1.5 mg/m ³ (TWA) 1 ppm (TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Bulk density:	No information available
pH:	1.2	Dilution pH:	2.5 @ 1:64
Appearance:	Aqueous solution	Vapor density:	No information available
Color:	Clear Clear	Evaporation Rate	No information available
Odor:	Citrus	Boiling point/range:	Not determined
Specific gravity:	1.013	Melting point/range:	Not determined
Density:	8.45 lbs/gal	Decomposition temperature:	Not determined
VOC:	8% *	Autoignition temperature:	No information available
Flash point:	>200°F >93.4°C	Partition coefficient (n-octanol/water):	No information available
Solubility:	Completely Soluble	Solubility in other solvents:	No information available
Viscosity:	No information available	Elemental Phosphorus:	0.00% by w t.

Explosion limits: - lower: Not determined- upper: Not determined

* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Oral LD50 estimated to be between 4000 - 5000 mg/kg . Dermal LD50 estimated to be > 2000 mg/kg.
Component Information:	See Section 3
Chronic toxicity:	None known
Specific effects	
Carcinogenic effects:	None known
Mutagenic effects:	None known
Reproductive toxicity:	None known
Target organ effects:	None known

10. STABILITY AND REACTIVITY

Stability:	The product is stable
Polymerization:	Hazardous polymerization does not occur
Hazardous decomposition products:	Oxygen.
Materials to avoid:	Ammonia. Bases . Do not mix with chlorinated products.
Conditions to avoid:	Do not freeze. Do not mix with any other product or chemical .

12. ECOLOGICAL INFORMATION

Environmental Information:	No data available
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12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Dispose of according to all federal, state and local applicable regulations

14. TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

15. REGULATORY INFORMATION

International Inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL).

U.S. Regulations

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

STATE RIGHT TO KNOW

Ingredient(s)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
Water	7732-18-5	-	-	-	-
Propylene glycol n-propyl ether	1569-01-3	-	X	-	-
Dodecylbenzene sulfonic acid	68584-22-5	-	-	-	-
Ethoxylated linear alcohol	68439-45-2	-	-	-	-
Hydrogen peroxide	7722-84-1	X	X	X	X

CERCLA/ SARA

Ingredient(s)	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Hydrogen peroxide	7722-84-1	1 - 5%		1000	

SARA 311/312 Hazard Categories

Immediate: x
Delayed: -
Fire: -
Reactivity: -
Sudden Release of Pressure: -

Canada



WHMIS hazard class: D2B Toxic materials.

Ingredient(s)	CAS #	NPRI
Propylene glycol n-propyl ether	1569-01-3	X

16. OTHER INFORMATION

Reason for revision:

Not applicable

Prepared by:

NAPRAC

Additional advice:

Contains an added fragrance, see "Odor" heading in section 9 for specific description. When used through dispensing/autodose equipment, this product meets Green Seal's requirements for skin and eye irritation and acute toxicity at the as-used dilution.

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

MATERIAL SAFETY DATA SHEET



STRIDE FLORAL Neutral Cleaner

HMIS		NFPA	Personal protective equipment
Health	1	1	None / Aucune / Ninguno
Flammability	0	0	
Physical Hazard / Instability	0	0	

Version Number: 2

Preparation date: 2013-01-04

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: STRIDE FLORAL Neutral Cleaner

MSDS #: MS0300484
Product Code: 04689, 04693
Recommended use:

- Industrial/Institutional
- Neutral cleaner
- This product is intended to be diluted prior to use

Manufacturer, importer, supplier: Canadian Headquarters
 US Headquarters
 Diversey, Inc.
 8310 16th St.
 Sturtevant, Wisconsin 53177-1964
 Phone: 1-888-352-2249
 MSDS Internet Address: www.diversey.com
Emergency telephone number: 1-800-851-7145 (U.S.); 1-651-917-6133 (Int'l)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION. MAY BE MILDLY IRRITATING TO EYES.

Principal routes of exposure: Eye contact. Skin contact. Inhalation.
Eye contact: May be mildly irritating to eyes.
Skin contact: None known.
Inhalation: None known.
Ingestion: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

4. FIRST AID MEASURES

Eye contact: Flush immediately with plenty of water. If irritation develops, get medical attention.
Skin contact: Rinse with plenty of water.
Inhalation: No specific first aid measures are required.
Ingestion: No specific first aid measures are required.
Aggravated Medical Conditions: None known

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: The product is not flammable. Extinguish fire using agent suitable for surrounding fire.
Specific hazards: Not applicable
Unusual hazards: None known
Specific methods: No special methods required

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Extinguishing media which must not be used for safety reasons: No information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:
Environmental precautions
and clean-up methods:

Not relevant for the product itself.
Clean-up methods - large spillage. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

Storage:

Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

No special ventilation requirements General room ventilation is adequate

Personal Protective Equipment

Eye protection:

No special requirements under normal use conditions.

Hand protection:

No special requirements under normal use conditions

Skin and body protection:

No special requirements under normal use conditions.

Respiratory protection:

No special requirements under normal use conditions.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance: Liquid Aqueous solution

Specific gravity: 1.002

Vapor density: No information available

Boiling point/range: Not determined

Decomposition temperature: Not determined

Solubility: Completely Soluble

Solubility in other solvents: No information available

Partition coefficient (n-octanol/water): No information available

Elemental Phosphorus: 0.00 % by wt.

pH: 6.5

Explosion limits: - upper: Not determined - lower: Not determined

Bulk density: No information available

Evaporation Rate: No information available

Color: Clear Pink

Odor: Floral

Melting point/range: Not determined

Autoignition temperature: No information available

Density: 8.34 lbs/gal 1 Kg/L

Flash point: > 200 °F > 93.4 °C

Viscosity: No information available

VOC: 0 % *

Dilution pH: 7.5 @ 1:32

* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

10. STABILITY AND REACTIVITY

Stability:

The product is stable

Polymerization:

Hazardous polymerization does not occur

Hazardous decomposition products:

None reasonably foreseeable.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Oral LD50 estimated to be greater than 5000 mg/kg. Dermal LD50 estimated to be > 2000 mg/kg.

Component Information:

See Section 3

Chronic toxicity:

None known

Specific effects

Carcinogenic effects:

None known

Mutagenic effects:

None known

Reproductive toxicity: None known
Target organ effects: None known

12. ECOLOGICAL INFORMATION

Environmental Information: No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
Dispose of according to all federal, state and local applicable regulations.

14. TRANSPORT INFORMATION

DOT/TDG/IMDG: Please refer to the Diversey HazMat Library, <http://naextranet.diversey.com/dot/>, for up to date shipping information.

DOT Bill of Lading Description: CLEANING, WASHING, BUFFING, OR POLISHING COMPOUNDS LIQUID

IMDG Bill of Lading Description: Same as DOT above.

15. REGULATORY INFORMATION

International Inventories at CAS# Level

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP).

U.S. Regulations

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

RIGHT TO KNOW (RTK)

Ingredient(s)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
Sodium xylene sulfonate	1300-72-7	-	-	-	-
Alcohol ethoxylates	68439-46-3	-	-	-	-
Water	7732-18-5	-	-	-	-

CERCLA/ SARA

SARA 311/312 Hazard Categories

Immediate: -
Delayed: -
Fire: -
Reactivity: -
Sudden Release of Pressure: -

Canada

WHMIS hazard class: Non-controlled

16. OTHER INFORMATION

Reason for revision: Not applicable
Prepared by: NAPRAC
Additional advice: • Contains an added fragrance, see "Odor" heading in section 9 for specific description

Material Safety Data Sheet

May be used to Comply with

OSHA's Hazard Communication Standard 29 CFR 1910.

Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration

(Non-Mandatory Form) Form Approved OMB No. 1218-0072

Identity (As Used On Label and List)9750, 9888,
9777ECOS Magnolia & Lily Liquid Laundry
Detergent, 50oz, 100oz, 210ozNOTE: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate that.**Section I—Manufacturer's Name**

(Address, Street, City, State, & Zip Code)

HAZARD RATINGEarth Friendly Products
Midwestern Division
111. Rohlwing Rd.
Addison, IL 60101

Emergency Telephone Number

Chemtrec 1-800-424-9300

Telephone Number for Information
(630) 595-1900

Date Prepared

Revised: 10/12/10

HEALTH 0

FLAMMABILITY 0

REACTIVITY 0

0 - Minimal
1 - Slight
2 - Moderate
3 - Serious
4 - Extreme

Protective Equipment:

None required

Section II—Hazardous Ingredients / Identity Information

Hazardous Components (Specify Chemical Identity, Common Names)

OSHA PEL

ACGIH TLV

Other Limits

Recommended

% (optional)

None

Section III—Physical Chemical Characteristics

Boiling Point

212°F

Specific Gravity (WATER =1)

1.01

Vapor Pressure

N/D

Melting Point

N/D

Vapor Density

N/D

Evaporation Rate

N/D

Solubility in Water

Infinite

Appearance and Odor

Water white to yellow tinge, clear, viscous liquid, pleasant odor

Section IV—Fire and Explosion Hazard Data

Flash Point

> 200°F

Flammable Limits

N/A

LEL

N/A

UEL

N/A

Extinguishing Media

This material is nonflammable

Special Fire Fighting Procedures

This material is nonflammable

Unusual Fire and Explosion Hazards

None

Section V—Reactivity Data

Stability	Unstable	Conditions to Avoid None.	
	Stable X		
Incompatibility (Materials to Avoid)	None known, product non-hazardous & nonflammable		
Hazardous Decomposition or Byproducts	None known non-hazardous		
Hazardous Polymerization	May Occur		Conditions to Avoid None
	Will Not Occur	X	

Section VI—Health Hazard Data

Route(s) of Entry:	Inhalation?	No	Skin?	No	Ingestion?	No
Health Hazards (Acute and Chronic)						
Acute: Eyes, Skin, Throat and Lungs: None when used under normal conditions. Non hazardous material						
Chronic: None known						

Carcinogenicity:	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
Signs and Symptoms of Exposure	None		
Medical Conditions Generally Aggravated	None known		
Emergency and First Aid Procedures	Eyes—None, if used under normal circumstances/flush with water if contact with eye. Skin—No treatment is necessary under ordinary circumstances. Inhalation—This material does not present any known inhalation hazard. Ingestion—This material does not present any known ingestion hazard		

Section VII—Precautions For Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled	Absorb the spill with paper towels or mop. Product is non-hazardous & nonflammable. All ingredients are replenish-able and sustainable plant based ingredients.
Waste Disposal	None to be taken non-hazrdous
Precautions to be Taken in Handling and Storage	None non-hazardous
Other Precautions	None

Section VIII—Control Measures

Respiratory Protection (Specify Type)	Not required under normal use conditions.			
Ventilation	Local Exhaust	If mechanical is not adequate	Special	None
	Mechanical (General)	Should be sufficient	Other	None
Protective Gloves	None	Eye Protection	None	
Other Protective Clothing or Equipment	None required	Work / Hygienic Practices	Observe good personal hygiene. Wash hands before eating, avoid inhalation or ingestion.	

Section IX — Transportation Information

U.S. DOT Information	Not regulated by D.O.T.
Proper Shipping Name:	N/A
UN/NA Number:	N/A
Hazard Class/Division:	N/A
Packing Group:	N/A
Label (s):	N/A
Placard (s):	N/A

MATERIAL SAFETY DATA SHEET



ALL Free Clear Laundry Detergent (HE)

HMIS		NFPA	Personal protective equipment
Health	2	1	None / Aucune / Ninguno
Flammability	0	0	
Physical Hazard / Instability	0	0	

Version Number: 1

Preparation date: 2012-10-03

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: ALL Free Clear Laundry Detergent (HE)

MSDS #: MS0500425

Product Code: 5792182, 5792191, 5792203

Recommended use:

- Laundry care
- This product is intended to be diluted prior to use

Manufacturer, importer, supplier:
 US Headquarters
 Diversey, Inc.
 8310 16th St.
 Sturtevant, Wisconsin 53177-1964
 Phone: 1-888-352-2249
 MSDS Internet Address: www.diversey.com
Emergency telephone number: 1-800-851-7145 (U.S.); 1-651-917-6133 (Int'l)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION. CAUSES EYE AND SKIN IRRITATION. HARMFUL IF SWALLOWED.

Principal routes of exposure: Eye contact. Skin contact. Inhalation.

Eye contact: Moderately irritating to the eyes.

Skin contact: Moderately irritating to the skin.

Inhalation: None known.

Ingestion: May cause irritation to mouth, throat and stomach.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS #	Weight %	LD50 Oral - Rat (mg/kg)	LD50 Dermal - Rabbit	LC50 Inhalation - Rat
Sodium hydroxide	1310-73-2	0.1 - 1.5%	500	≈1350 mg/kg	Not available
Sodium dodecylbenzene sulfonate	25155-30-0	10 - 20%	438	Not available	Not available
Alcohol ethoxylates	68131-39-5	10 - 20%	1000	Not available	Not available

4. FIRST AID MEASURES

Eye contact: Flush immediately with plenty of water. If irritation persists, get medical attention.

Skin contact: Flush immediately with plenty of water. If irritation persists, get medical attention.

Inhalation: No specific first aid measures are required.

Ingestion: If swallowed, give a cupful of water or milk. THEN IMMEDIATELY CONTACT A PHYSICIAN OR POISON CENTER. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Aggravated Medical Conditions: Persons with pre-existing skin disorders may be more susceptible to irritating effects

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: The product is not flammable. Extinguish fire using agent suitable for surrounding fire.
Specific hazards: Not applicable
Unusual hazards: None known
Specific methods: No special methods required

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

Extinguishing media which must not be used for safety reasons: No information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment
Environmental precautions and clean-up methods: Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not taste or swallow. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

Storage: Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:
 No special ventilation requirements General room ventilation is adequate

Personal Protective Equipment

Eye protection: No special requirements under normal use conditions.
Hand protection: No special requirements under normal use conditions
Skin and body protection: No special requirements under normal use conditions.
Respiratory protection: No special requirements under normal use conditions.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

Ingredient(s)	CAS #	ACGIH	OSHA	Mexico
Sodium hydroxide	1310-73-2	2 mg/m ³ (Ceiling)	2 mg/m ³ (TWA)	2 mg/m ³ (Ceiling)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Appearance: Liquid
Specific gravity: 1.043
Vapor density: No information available
Boiling point/range: Not determined
Decomposition temperature: Not determined
Solubility: Completely Soluble
Solubility in other solvents: No information available
Partition coefficient (n-octanol/water): No information available
Elemental Phosphorus: 0.00 % by wt.
pH: 12.3
Explosion limits: - upper: Not determined - lower: Not determined

Bulk density: No information available
Evaporation Rate: No information available
Color: Hazy Straw
Odor: No Odor/Odorless
Melting point/range: Not determined
Autoignition temperature: No information available
Density: 8.67 lbs/gal 1.04 Kg/L
Flash point: > 200 °F > 93.4 °C
Viscosity: No information available
VOC: 0 % *
Dilution pH: 9.53 @ 1:512

* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

10. STABILITY AND REACTIVITY

Stability: The product is stable
Polymerization: Hazardous polymerization does not occur
Hazardous decomposition products: None reasonably foreseeable.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Oral LD50 estimated to be between 1000 - 2000 mg/kg ; Dermal LD50 estimated to be > 2000 mg/kg
Component Information: See Section 3

Chronic toxicity: None known

Specific effects

Carcinogenic effects: None known

Mutagenic effects: None known

Reproductive toxicity: None known

Target organ effects: None known

12. ECOLOGICAL INFORMATION

Environmental Information: No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Dispose of according to all federal, state and local applicable regulations.

14. TRANSPORT INFORMATION

DOT/TDG/IMDG: Please refer to the Diversey HazMat Library, <http://naextranet.diversey.com/dot/>, for up to date shipping information.

DOT Bill of Lading Description: CLEANING, WASHING, BUFFING, OR POLISHING COMPOUNDS LIQUID

IMDG Bill of Lading Description: CLEANING, WASHING, BUFFING, OR POLISHING COMPOUNDS LIQUID

15. REGULATORY INFORMATION

International Inventories at CAS# Level

All components of this product are listed on the following inventories: U.S.A. (TSCA)

U.S. Regulations

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65

RIGHT TO KNOW (RTK)

Ingredient(s)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
Sodium hydroxide	1310-73-2	X	X	X	X
Sodium silicate	1344-09-8	-	-	-	-
Sodium dodecylbenzene sulfonate	25155-30-0	X	X	X	X
Fatty acids, coco, sodium salts	61789-31-9	-	-	-	-
Alcohol ethoxylates	68131-39-5	-	-	-	-
Water	7732-18-5	-	-	-	-

CERCLA/ SARA

Ingredient(s)	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Sodium hydroxide	1310-73-2	0.1 - 1.5%	1000		
Sodium dodecylbenzene sulfonate	25155-30-0	10 - 20%	1000		

SARA 311/312 Hazard Categories

Canada

WHMIS hazard class: Not for sale in Canada

16. OTHER INFORMATION

Reason for revision: Not applicable
Prepared by: NAPRAC
Additional advice: • Does not contain an added fragrance

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Kitchen

Apex Dish Machine Soap

Baking Soda

Bleach

Comet

Dawn Dish Soap

Earth Friendly Wave Dish Washing Gel

Eco Lab Wash & Walk

Eco Lab Jet Dry

Eco Lab Lime Away

Eco Lab Pathway Drain Treatment

Eco Lab Power Dish Machine Soap

Eco Lab Super Swamp

Equate Hand Soap

Keystone High Temp Grill Cleaner

Keystone Satin Shine Cleaner & Polish

Keystone Under Counter Machine Soap

Keystone Drain Treatment

Seventh Generation Dish Wash Soap

Simple Green

Soft Scrub Cleanser

Soft Scrub Hand Soap

Spitfire Power Cleaner

Sterno Cooking Fuel

Sysco Brand Comet Cleaner

Sysco Brand Dishwashing Powder

Tork Foam Soap

Weimen Stainless Steel Polish

SAFETY DATA SHEET

ECOLAB®

KEYSTONE DRAIN TREATMENT

Section 1. Chemical product and company identification

Product name : KEYSTONE DRAIN TREATMENT

Recommended use and restrictions : Drain Cleaner

Use only for the purpose on the product label.

Product dilution information : Up to 0.01 oz/0.26 gal or 0.3 mL/L in water

Supplier's information : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

Code : 924913-04

Date of issue : 12 Feb 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

GHS Classification : **Product AS SOLD**
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 : Get medical attention if symptoms appear.

Storage : Not applicable.

Disposal : Not applicable.

Other hazards : None known.

Product AT USE DILUTION

Not classified.

No signal word.

No known significant effects or critical hazards.

Not applicable.

Get medical attention if symptoms appear.

Not applicable.

Not applicable.

None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

KEYSTONE DRAIN TREATMENT

Section 4. First aid measures

- Product AS SOLD**
- Eye contact** : No known effect after eye contact. Rinse with water for a few minutes.
- Skin contact** : No known effect after skin contact. Rinse with water for a few minutes.
- Inhalation** : No special measures required. Treat symptomatically.
- Ingestion** : Get medical attention if symptoms occur.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (section 11)

Product AT USE DILUTION

No known effect after eye contact. Rinse with water for a few minutes.

No known effect after skin contact. Rinse with water for a few minutes.

No special measures required. Treat symptomatically.

Get medical attention if symptoms occur.

Section 5. Fire-fighting measures

- Product AS SOLD**
- Suitable fire extinguishing media** : Use water spray, fog or foam.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
- Specific fire-fighting methods** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

- Product AS SOLD**
- Personal precautions** : Use personal protective equipment as required. Do not touch or walk through spilled material.
- Environmental precautions** : Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
- Methods for cleaning up** : Absorb with an inert material. Use a water rinse for final clean-up.

Product AT USE DILUTION

Use personal protective equipment as required. Do not touch or walk through spilled material.

Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.

Absorb with an inert material. Use a water rinse for final clean-up.

Section 7. Handling and storage

- Product AS SOLD**
- Handling** : Wash thoroughly after handling.
- Storage** : Keep out of reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Store between the following temperatures: 0 and 50°C

Product AT USE DILUTION

Wash thoroughly after handling.

Keep out of reach of children. Keep container tightly closed. Keep container in cool, well-ventilated area.

KEYSTONE DRAIN TREATMENT

Section 8. Exposure controls/personal protection

Control parameters

Exposure limits

Ingredient name

None.

Appropriate engineering controls

Product AS SOLD

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

Personal protection

Eye protection

: No protective equipment is needed under normal use conditions.

Hand protection

: No protective equipment is needed under normal use conditions.

Skin protection

: No protective equipment is needed under normal use conditions.

Respiratory protection

: A respirator is not needed under normal and intended conditions of product use.

Hygiene measures

: Wash hands before eating, drinking or smoking.

Product AT USE DILUTION

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

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

A respirator is not needed under normal and intended conditions of product use.

Section 9. Physical and chemical properties

Physical state

Product AS SOLD

: Liquid.

Color

: Green [Light]

Odor

: citrus

pH

: 7.5 (100%)

ash point

: > 100°C

Explosion limits

: Not available.

Flammability (solid, gas)

: Not available.

Melting point

: Not available.

Boiling point

: Not available.

Evaporation rate (butyl acetate = 1)

: Not available.

Vapor pressure

: Not available.

Vapor density

: Not available.

Relative density

: 1 (Water = 1)

Solubility

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

Partition coefficient: n-octanol/water

: Not available.

Auto-ignition temperature

: Not available.

Decomposition temperature

: Not available.

Odor threshold

: Not available.

Viscosity

: Not available.

Product AT USE DILUTION

Liquid.

Clear

Odorless

7.22

> 100°C

KEYSTONE DRAIN TREATMENT

Section 10. Stability and reactivity

Product AS SOLD	
Stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Materials to avoid	: Not available.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Route of exposure	: Skin contact, Eye contact, Inhalation, Ingestion
-------------------	--

Symptoms

Eye contact

: No specific data.

Skin contact

: No specific data.

Inhalation

: No specific data.

Ingestion

: No specific data.

Acute toxicity

Eye contact

: No known significant effects or critical hazards.

Skin contact

: No known significant effects or critical hazards.

Inhalation

: No known significant effects or critical hazards.

Ingestion

: No known significant effects or critical hazards.

Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Toxicity dataProduct/ingredient name
Not applicable.

Result

Species

Dose

Chronic toxicity

Carcinogenicity

: No known significant effects or critical hazards.

Mutagenicity

: No known significant effects or critical hazards.

Teratogenicity

: No known significant effects or critical hazards.

Developmental effects

: No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

Section 12. Ecological information

Product AS SOLD

Ecotoxicity

: No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

Product/ingredient name

Result

Species

Exposure

Not available.

Other adverse effects

: No known significant effects or critical hazards.

KEYSTONE DRAIN TREATMENT

Section 13. Disposal considerations

Disposal methods

Product AS SOLD

: Diluted product can be flushed to sanitary sewer.
Discard empty container in trash.

Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification

Not regulated.

IMO/IMDG

IMO/IMDG Classification

Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) inventory

: All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

SARA 313

Product name

Form R - Reporting requirements

: No listed substance

California Prop. 65

: No listed substance

CAS number Concentration

Section 16. Other information

Product AS SOLD

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

Health	0
Flammability	0
Physical hazards	0

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

Health	0	0	0
	Flammability	Instability/Reactivity	Special

Product AT USE DILUTION

Health	0
Flammability	0
Physical hazards	0

Health	0	0	0
	Flammability	Instability/Reactivity	Special

Section 16. Other information

Date of issue

: 12 Feb 2013

Prepared by

: Regulatory Affairs

1-800-352-5326

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.



SAFETY DATA SHEET

APEX CHLORINE FREE MACHINE DETERGENT

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : APEX CHLORINE FREE MACHINE DETERGENT

Other means of identification : not applicable

Recommended use : Machine Warewashing Detergent

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.12 % - 0.24 %

Company : Ecolab Inc.
370 N. Wabasha Street
St. Paul, Minnesota USA 55102
1-800-352-5326

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

Issuing date : 08/19/2014

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

Eye irritation : Category 2A

Product AT USE DILUTION

Not a hazardous substance or mixture.

GHS Label element

Product AS SOLD

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Causes serious eye irritation.

Precautionary Statements : **Prevention:**
Wash skin thoroughly after handling. Wear eye protection/ face protection.
Response:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Product AT USE DILUTION

Precautionary Statements : **Prevention:**
Wash hands thoroughly after handling.
Response:
Get medical advice/ attention if you feel unwell.
Storage:
Store in accordance with local regulations.

SAFETY DATA SHEET

APEX CHLORINE FREE MACHINE DETERGENT

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Sodium Carbonate	497-19-8	60 - 100
alcohols, c13-15-branched and linear, butoxylated ethoxylated	111905-53-4	1 - 5
oxirane, methyl-, polymer with oxirane	9003-11-6	1 - 5

Product AT USE DILUTION

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

Product AS SOLD

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention immediately.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.

Product AT USE DILUTION

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

See toxicological information (Section 11)

SECTION 5. FIRE-FIGHTING MEASURES

Product AS SOLD

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

Unsuitable extinguishing media : None known.

SAFETY DATA SHEET

APEX CHLORINE FREE MACHINE DETERGENT

- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Carbon oxides
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Product AS SOLD

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Product AT USE DILUTION

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Product AS SOLD

- Advice on safe handling : Avoid contact with skin and eyes. Do not ingest. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash hands thoroughly after handling. Use only with adequate ventilation.
- Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
- Storage temperature : 0 °C to 50 °C

SAFETY DATA SHEET

APEX CHLORINE FREE MACHINE DETERGENT

Product AT USE DILUTION

Advice on safe handling : For personal protection see section 8. Wash hands after handling.

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

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

Personal protective equipment

Eye protection : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

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

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

Product AT USE DILUTION

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

Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: Extruded solid.	liquid
Color	: opaque, off-white	colorless
Odor	: slight	slight
pH	: 10.7 - 11.1, 1 %	10.65 - 10.91
Flash point	: not applicable, Does not sustain combustion.	
Odor Threshold	: no data available	

SAFETY DATA SHEET

APEX CHLORINE FREE MACHINE DETERGENT

Melting point/freezing point	: no data available
Initial boiling point and boiling range	: > 100 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapor pressure	: no data available
Relative vapor density	: no data available
Relative density	: no data available
Water solubility	: soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: no data available
Molecular weight	: no data available
VOC	: no data available

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: Acids
Hazardous decomposition products	: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects

Product AS SOLD

Eyes	: Causes serious eye irritation.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.

SAFETY DATA SHEET

APEX CHLORINE FREE MACHINE DETERGENT

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

Product AT USE DILUTION

Eyes : Health injuries are not known or expected under normal use.

Skin : Health injuries are not known or expected under normal use.

Ingestion : Health injuries are not known or expected under normal use.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Product AS SOLD

Eye contact : Redness, Pain, Irritation

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

Product AT USE DILUTION

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

Toxicity

Product AS SOLD

Acute oral toxicity : Acute toxicity estimate 4,053 mg/kg

Acute inhalation toxicity : 4 h Acute toxicity estimate : 7.53 mg/l

Acute dermal toxicity : no data available

Skin corrosion/irritation : no data available

Serious eye damage/eye irritation : no data available

Respiratory or skin sensitization : no data available

Carcinogenicity : no data available

Reproductive effects : no data available

Germ cell mutagenicity : no data available

Teratogenicity : no data available

STOT-single exposure : no data available

STOT-repeated exposure : no data available

SAFETY DATA SHEET

APEX CHLORINE FREE MACHINE DETERGENT

Aspiration toxicity : no data available

Ingredients

Acute dermal toxicity : alcohols, c13-15-branched and linear, butoxylated ethoxylated
LD50 rat: > 2,000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD

Ecotoxicity

Environmental Effects : Harmful to aquatic life.

Product

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Ingredients

Toxicity to fish : alcohols, c13-15-branched and linear, butoxylated ethoxylated
96 h LC50 Fish: 5 mg/l

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

Ingredients

Toxicity to daphnia and other aquatic invertebrates : Sodium Carbonate
48 h EC50 Daphnia : 200 mg/l

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD

Disposal methods

: The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations

: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SAFETY DATA SHEET

APEX CHLORINE FREE MACHINE DETERGENT

Product AT USE DILUTION

Disposal methods

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

Disposal considerations

: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD

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

Land transport (DOT)

Not dangerous goods

Sea transport (IMDG/IMO)

Not dangerous goods

Product AT USE DILUTION

Not intended for transport.

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

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

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards

: Acute Health Hazard

SARA 302

: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

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

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

1907/2006 (EU) :
not determined

Switzerland. New notified substances and declared preparations :

SAFETY DATA SHEET

APEX CHLORINE FREE MACHINE DETERGENT

The mixture contains substances listed on the Swiss Inventory not determined

United States TSCA Inventory :
On TSCA Inventory

Canadian Domestic Substances List (DSL) :
All components of this product are on the Canadian DSL.

Australia Inventory of Chemical Substances (AICS) :
not determined

New Zealand. Inventory of Chemical Substances :
not determined

Japan. ENCS - Existing and New Chemical Substances Inventory :
not determined

Japan. ISHL - Inventory of Chemical Substances :
not determined

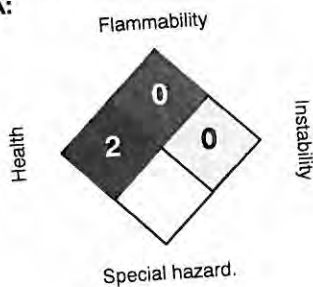
Korea. Korean Existing Chemicals Inventory (KECI) :
not determined

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
not determined

China. Inventory of Existing Chemical Substances in China (IECSC) :
not determined

SECTION 16. OTHER INFORMATION

Product AS SOLD
NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

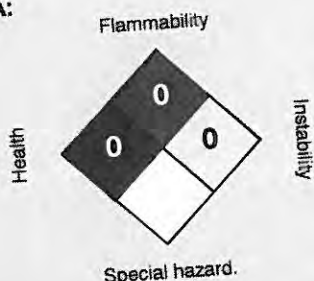
0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Product AT USE DILUTION

SAFETY DATA SHEET

APEX CHLORINE FREE MACHINE DETERGENT

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

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

Issuing date : 08/19/2014
Version : 1.1
Prepared by : Regulatory Affairs

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

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

**Spitfire 21 Power Cleaner**

Version Number: 5

Preparation date: 2015-06-15

1. IDENTIFICATION

Product name: Spitfire 21 Power Cleaner
Product Code: 95891789, 100870948
SDS #: MS0800202
Recommended use:

- Cleaning product
- This product is intended to be used neat.

Uses advised against: Uses other than those identified are not recommended

Manufacturer, importer, supplier:

US Headquarters Sealed Air 8215 Forest Point Blvd. Charlotte, NC 28273-5509 Phone: 1-888-352-2249 SDS Internet Address: www.sds.sealedair.com	Canadian Headquarters Sealed Air - Canada 3755 Laird Road Mississauga, Ontario L5L 0B3 Phone: 1-800-668-3131
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Emergency telephone number: 1-800-851-7145 (U.S.); 1-651-917-6133 (Int'l)

2. HAZARDS IDENTIFICATION**Classification for the undiluted product**

Serious eye damage/eye irritation Category 2A

**Signal Word:****Warning.****Precautionary Statements****CAUSES SERIOUS EYE IRRITATION.**

Avoid contact with eyes, skin and clothing. Wash affected areas thoroughly after handling. May cause irritation to mouth, throat and stomach. Wear chemical-splash goggles and chemical-resistant gloves. IF SWALLOWED: Rinse mouth. Drink a cupful of milk or water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists: Get medical advice or attention. Dispose of in accordance with all federal, state and local applicable regulations.

Health hazards not otherwise classified (HHNOC) - Not applicable**Physical hazards not otherwise classified (PHNOC)** - Not applicable**Classification for the diluted product @ RTU**

This product is intended to be used neat.

Precautionary Statements
See undiluted product information above.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Classified Ingredients		CAS #	Weight %
Ingredient(s)			3% - < 5%
Benzyl alcohol		100-51-6	1% - < 3%
Diethylene glycol monoethyl ether		111-90-0	1% - < 3%
Sodium xylene sulfonate		1300-72-7	1% - < 3%
Alcohol ethoxylates		68439-46-3	> 0.1% - < 1%
Monoethanolamine		141-43-5	> 0.1% - < 1%
Potassium hydroxide		1310-58-3	> 0.1% - < 1%
2-butoxyethanol		111-76-2	> 0.1% - < 1%

*Exact percentages are being withheld as trade secret information

4. FIRST AID MEASURES

Undiluted Product:

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
Skin: Rinse with plenty of water. If irritation occurs and persists, get medical attention.
Inhalation: No specific first aid measures are required.
Ingestion: IF SWALLOWED: Rinse mouth. Drink a cupful of milk or water.

Most Important Symptoms/Effects: No information available.
Immediate medical attention and special treatment needed: Not applicable.
Aggravated Medical Conditions: None known.

Diluted Product:

This product is intended to be used neat.

Eyes: See undiluted product information above.

Skin: See undiluted product information above.

Inhalation: See undiluted product information above.

Ingestion: See undiluted product information above.

5. FIRE-FIGHTING MEASURES

Specific methods:

Suitable extinguishing media:

Specific hazards:

No special methods required

The product is not flammable. Extinguish fire using agent suitable for surrounding fire.

Not applicable.

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

Extinguishing media which must not be used for safety reasons: No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Environmental precautions and clean-up methods:

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

Clean-up methods - large spillage. Absorb spill with inert material (e.g. dry sand or earth), then place a chemical waste container. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Wash thoroughly after handling. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
Storage: Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. KEEP OUT OF REACH OF CHILDREN.
Aerosol Level (if applicable): Not applicable

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Ingredient(s)	CAS #	ACGIH	OSHA
Benzyl alcohol	100-51-6	-	-
Diethylene glycol monoethyl ether	111-90-0	-	-
Sodium xylene sulfonate	1300-72-7	-	-
Alcohol ethoxylates	68439-46-3	6 ppm (STEL) 3 ppm (TWA)	3 ppm (TWA) 6 mg/m ³ (TWA)
Monoethanolamine	141-43-5	2 mg/m ³ (Ceiling)	-
Potassium hydroxide	1310-58-3	20 ppm (TWA)	Skin 50 ppm (TWA)
2-butoxyethanol	111-76-2		240 mg/m ³ (TWA)

Undiluted Product:

Engineering measures to reduce exposure:

No special ventilation requirements General room ventilation is adequate

Personal Protective Equipment

Eye protection:

Hand protection:

Skin and body protection:

Respiratory protection:

Hygiene measures:

Chemical-splash goggles.

Chemical-resistant gloves.

No special requirements under normal use conditions.

No special requirements under normal use conditions.

Handle in accordance with good industrial hygiene and safety practice.

Diluted Product:

This product is intended to be used neat.

Personal Protective Equipment

Eye protection:

Hand protection:

Skin and body protection:

Respiratory protection:

Hygiene measures:

Chemical-splash goggles.

Chemical-resistant gloves.

No personal protective equipment required under normal use conditions.

No personal protective equipment required under normal use conditions.

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Liquid

Evaporation Rate: No information available

Odor threshold: No information available.

Melting point/range: Not determined

Autoignition temperature: No information available

Solubility in other solvents: No information available

Density: 8.47 lbs/gal 1.015 Kg/L

Bulk density: No information available

Flash point: > 200 °F > 93.3 °C

Dilution Flash Point: 200 °F 93.3 °C

Elemental Phosphorus: 0.00 % by wt.

pH: 12.3

Dilution pH: 12.3 @ RTU

Metal Corrosion: Not determined

Explosion limits: - upper: Not determined - lower: Not determined

Color: Clear, Red

Odor: Fresh Pine

Boiling point/range: Not determined

Decomposition temperature: Not determined

Solubility: Completely Soluble

Relative Density (relative to water): 1.015

Vapor density: No information available

Vapor pressure: No information available.

Partition coefficient (n-octanol/water): No information available

Viscosity: No information available

VOC: 0.45 % *

VOC % by wt. at use dilution 0.45 % *

Flammability (Solid or Gas): Not applicable

* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

10. STABILITY AND REACTIVITY

Reactivity:

Stability:

Hazardous decomposition products:

Materials to avoid:

Conditions to avoid:

Not Applicable

The product is stable

None reasonably foreseeable.

Do not mix with any other product or chemical unless specified in the use directions.

No information available.

11. TOXICOLOGICAL INFORMATION

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

Delayed, immediate, or chronic effects and symptoms from short and long-term exposure

Skin contact: May be mildly irritating to skin. Symptoms may include redness and/or transient discomfort.

Eye contact: Causes serious eye irritation. Symptoms may include pain, redness, and watering.

Ingestion: May be irritating to mouth, throat and stomach. Symptoms may include stomach pain and nausea.

Inhalation: May be irritating to nose, throat, and respiratory tract. Symptoms may include coughing and difficulty breathing.

Sensitization: No known effects.

Target Organs (SE): None known

Target Organs (RE): None known

Numerical measures of toxicity

ATE - Oral (mg/kg): >5000

ATE - Dermal (mg/kg): >5000

ATE - Inhalatory, mists (mg/l): >20

12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: This product, as sold, if discarded or disposed, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Dispose in compliance with all Federal, state, provincial, and local laws and regulations.

Contaminated Packaging: Do not re-use empty containers.

RCRA Hazard Class (undiluted product): Not Regulated

14. TRANSPORT INFORMATION

DOT/TDG/IMDG: Proper shipping descriptions can vary by pack size. Please refer to the Diversey HazMat Library, only available through Internet Explorer, <http://naextranet.diversey.com/dot/>, for up to date shipping information.

DOT (Ground) Bill of Lading Description: CLEANING, WASHING, BUFFING, OR POLISHING COMPOUNDS LIQUID

IMDG (Ocean) Bill of Lading Description: CLEANING, WASHING, BUFFING, OR POLISHING COMPOUNDS LIQUID

15. REGULATORY INFORMATION

International Inventories at CAS# Level

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL).

U.S. Regulations

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65.

RIGHT TO KNOW (RTK)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
Ingredient(s)					
Water	7732-18-5	-	-	X	-
Benzyl alcohol	100-51-6	X	-	-	-
Diethylene glycol monoethyl ether	111-90-0	-	X	-	-
Sodium xylene sulfonate	1300-72-7	-	-	-	-

Spitfire 21 Power Cleaner

Alcohol ethoxylates	68439-46-3	-	-	-	-
Monoethanolamine	141-43-5	X	X	X	X
Potassium hydroxide	1310-58-3	X	X	X	-
2-butoxyethanol	111-76-2	X	X	X	-

CERCLA/ SARA	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Ingredient(s)		1% - < 3%			X
Diethylene glycol monoethyl ether	111-90-0	> 0.1% - < 1%	1000		X
Potassium hydroxide	1310-58-3	> 0.1% - < 1%			
2-butoxyethanol	111-76-2	> 0.1% - < 1%			

Ingredient(s)	CAA HAP	CAA ODS	CWA Priority Pollutants
Diethylene glycol monoethyl ether	X		
2-butoxyethanol	X		

SARA 311/312 Hazard Categories

Immediate: X
 Delayed: -
 Fire: -
 Reactivity: -
 Sudden Release of Pressure: -

Canadian Regulations

Ingredient(s)	CAS #	NPRI
2-butoxyethanol	111-76-2	X

16. OTHER INFORMATION

NFPA (National Fire Protection Association)

Rating Scale: (Low Hazard) 0 - 4 (Extreme Hazard)

Health 2
 Flammability 0
 Instability 0

Version Number: 5
 Preparation date: 2015-06-15

Reason for revision:
 Prepared by:
 Additional advice:

Not applicable
 NAPRAC

• Contains an added fragrance, see "Odor" heading in section 9 for specific description

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

MATERIAL SAFETY DATA SHEET

MSDS D-121 REVISION 5

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

The Dial Corporation
19001 N. Scottsdale Road
Scottsdale, Arizona 85255-9672

Medical Emergencies: 1-888-689-9082
Chemtrec: 1-800-424-9300 (24 Hours Daily)
Other Information: 1-888-468-6673

PRODUCT: Hard Surface Cleaner DATE OF ISSUE: March 29, 2011

TRADE NAMES/SYNONYMS: Soft Scrub® with Bleach Cleanser
Soft Scrub® with Bleach Disinfectant Cleanser
Commercial Soft Scrub® with Bleach Disinfectant Cleanser

CHEMICAL FAMILY: Mixture

I.D. NUMBERS: 99102011, IDH# 1388321 (SS w/Bleach Disinfectant Cleanser)

EPA REG. NUMBER: 64240-44-57125

SECTION 2: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: This product is a white, viscous, fragranced liquid. Direct contact with eyes can cause irritation. Ingestion of large amounts may cause some gastrointestinal discomfort including nausea, vomiting, abdominal pain, diarrhea, and lethargy. Repeated or prolonged excessive exposure with skin may cause irritation. Irritating, in high concentration, to the respiratory tract. Keep out of reach of children. No significant environmental effects. Not a fire hazard. Product is stable.

This product is labeled in accordance with guidelines set forth in the Federal Insecticide, Fungicide and Rodenticide Act. The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this Material Safety Data Sheet may differ from the requirements of the FD & C Act and as a result, this MSDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

REGULATORY STATUS

This material is considered to be hazardous under OSHA's Hazard Communication Standard (29 CFR 1900.1200). This MSDS should be retained and available for employees and other users of this product.

POTENTIAL HEALTH EFFECTS

NOTE: The acute health effects described below are those which could potentially occur for the finished product. They are based on the toxicology information available for the finished product and/or each hazardous ingredient, and are consistent with the product type and the likelihood of a specific route of exposure. Known chronic health effects related to exposure to a specific ingredient are indicated.

INHALATION: Not a likely route of exposure. Irritating, in high concentration, to the respiratory tract (nose, throat, and lungs).

SKIN CONTACT: Can cause mild skin irritation with prolonged contact.

EYE CONTACT: Can cause mild to moderate eye irritation.

INGESTION: Not a likely route of exposure. Ingestion of large amounts may cause some gastrointestinal discomfort including nausea, vomiting, abdominal pain, diarrhea, and lethargy.

CHRONIC HEALTH EFFECTS: Due to the nature and composition of this product no chronic health effects are anticipated.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: No known health conditions are aggravated by exposure to this product.

POTENTIAL ENVIRONMENTAL EFFECTS

See Section 12: Ecological Information.

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Based on our hazard evaluation, the following chemical substance(s) in this product have been identified as hazardous.

INGREDIENT	CAS NUMBER	PERCENT (w/w)
Calcium Carbonate	1317-65-3	30 – 60 %
Sodium Hypochlorite	7681-52-9	1 – 5 %
Sodium Alkane Sulfonate	85711-69-9	1 – 5 %

SECTION 4: FIRST AID MEASURES

Call poison control center or doctor immediately for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

INHALATION: Remove from exposure area to fresh air immediately. Keep affected person warm and at rest. Treat symptomatically and supportively. Contact physician or local poison control center. If breathing has stopped, give artificial respiration, and get medical attention immediately.

SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. In either case, call a poison control center immediately for treatment advice.

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and continue rinsing eye. Get medical attention if pain or irritation persists.

INGESTION: Treat symptomatically and supportively. Maintain airway and respiration. If vomiting occurs, keep head below hips to prevent aspiration. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.

NOTE TO PHYSICIAN: The physician's judgment should be used to control symptoms and clinical condition based on the individual reactions of the patient.

SECTION 5: FIRE FIGHTING MEASURES**FLAMMABLE PROPERTIES**

OSHA FLAMMABILITY CLASSIFICATION: Not applicable

UPPER FLAMMABILITY LIMIT: Not applicable

AUTO-IGNITION TEMPERATURE: Not applicable

FIRE AND EXPLOSION HAZARD: Negligible fire hazard when exposed to heat or flame.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and oxides of nitrogen.

FLASH POINT: > 200°F (TCC)

LOWER FLAMMABILITY LIMIT: Not applicable

EXTINGUISHING MEDIA

Dry chemical, carbon dioxide (CO₂) foam or water spray.

PROTECTION OF FIREFIGHTERS

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until fire is out. Do not scatter spilled material with high-pressure water streams. Dike fire-control water for later disposal. Use agents suitable for type of surrounding fire. Avoid breathing hazardous vapors, keep upwind.

SECTION 6: ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS:**

Ventilate spill area if possible. Do not touch spilled material. Stop or reduce any leaks if it is safe to do so. Use personal protective equipment recommended in Section 8. Notify appropriate government, occupational health and safety and

SOFT SCRUB WITH BLEACH CLEANSER

environmental authorities. Keep unnecessary people away; isolate hazard area and restrict entry. Ensure clean up is conducted by trained personnel only.

ENVIRONMENTAL PRECAUTIONS:

This product is toxic to fish and aquatic invertebrates. This product should not be directly discharged into lakes, streams, ponds, estuaries, oceans, public water supplies, or other waters. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment washwater.

METHODS FOR CONTAINMENT AND CLEAN UP:

SMALL SPILLS: Contain and absorb with sand or other absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. **LARGE SPILLS:** Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. No smoking, flames or flares in hazard area.

SECTION 7: HANDLING AND STORAGE**HANDLING:**

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

STORAGE:

Store in a cool, dry, ventilated area out of reach of children and away from sources of heat, moisture, and incompatible substances. Store in suitable labeled containers. Store the containers tightly closed.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

This product is a household product. The use of this product by consumers is safe under normal and reasonable foreseen use. The information provided below refers to the occupational settings.

WORKER EXPOSURE LIMITS

The following exposure limits exist for the ingredients listed below. The TLV-TWA is the ACGIH Threshold Limit Value – Time Weighted Average. PEL is the OSHA Permissible Exposure Limit.

INGREDIENT	CAS NUMBER	EXPOSURE LIMIT
Calcium Carbonate	1317-65-3	TLV-TWA: 10 mg/m ³ (total dust), PEL: 5 mg/m ³ (respirable fraction)

ENGINEERING CONTROLS: Provide local exhaust or general dilution ventilation to keep potential exposure to airborne contaminants as low as possible.

RESPIRATOR: Air contamination monitoring should be carried out where generation of vapors is likely to occur, to assure that the employees are not exposed to harmful concentrations of any of the above-mentioned components. If respiratory protection is required, it must be based on the contamination levels found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

FOR FIRE FIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS: Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure demand or other positive-pressure mode.

CLOTHING: Protective clothing (impervious to liquids) is required where splashing of product may occur.

GLOVES: Chemical-resistant gloves are required where repeated or prolonged skin contact may occur.

EYE/FACE PROTECTION: Splash-proof safety glasses are required to prevent eye contact where splashing of product may occur.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White, viscous, fragranced liquid.

SOFT SCRUB WITH BLEACH CLEANSER

ODOR/ODOR THRESHOLD: Pleasant fragrance

pH (@ 25°C): 12.7 (neat)

BOILING POINT: Not available

MELTING/FREEZING POINT: Not available

FLAMMABLE PROPERTIES: See Section 5.

DENSITY/SPECIFIC GRAVITY: 1.3 g/ml @ 25°C

OCTANOL/WATER PARTITION COEFFICIENT (K_{ow}): Not available

VISCOSITY: 10,000-15,000 cP

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March 29, 2011

PHYSICAL STATE: Liquid

VAPOR DENSITY: Not available

VAPOR PRESSURE: Not available

FLASH POINT: > 200°F (TCC)

SOLUBILITY IN WATER: Complete

EVAPORATION RATE: Not available

CLOUD POINT: 0 - 45°F

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).

CONDITIONS TO AVOID: Avoid storing in direct sunlight and avoid extremes of temperature.

INCOMPATIBLE MATERIALS: Strong oxidizers and reducing agents. Reacts with other household chemicals such as acid toilet bowl cleaners, rust removers, acids, vinegar, and ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include oxides of carbon.

POSSIBILITY OF HAZARDOUS REACTIONS: Polymerization does not occur under normal temperatures and pressures.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION SUMMARY: This product is a household product. The use of this product by consumers is safe under normal and reasonable foreseen use. Direct contact with eyes can cause irritation. Ingestion of large amounts may cause some gastrointestinal discomfort including nausea, vomiting, abdominal pain, diarrhea, and lethargy. Repeated or prolonged excessive exposure with skin may cause irritation. Irritating, in high concentration, to the respiratory tract.

COMPONENT ANALYSIS: The following toxicity information is for the hazardous ingredient(s) when used as technical grade and is provided as reference for the occupational settings.

PRODUCT / INGREDIENT	LD50 / DRAIZE SCORE	TOXICITY / IRRITATION RATING
ACUTE ORAL TOXICITY		Non-hazardous
Antibacterial Soft Scrub w/bleach	> 5,000 mg/kg (rat)	Non-hazardous
Sodium hypochlorite (active ingredient)	8,910 mg/kg (rat)	Toxic
Sodium Alkane Sulfonate	> 500 mg/kg (rat)	Practically Non-Toxic
ACUTE DERMAL TOXICITY		
Antibacterial Soft Scrub w/bleach	> 2,000 mg/kg (rabbit)	Severely Irritating
EYE IRRITATION		
Antibacterial Soft Scrub w/bleach		Moderately Irritating
SKIN IRRITATION		
Antibacterial Soft Scrub w/bleach		

SENSITIZATION: This product is not considered a skin or respiratory sensitizer.

CARCINOGENICITY: None of the ingredients in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA).

MUTAGENICITY: None of the ingredients in this product are known to cause mutagenicity.

REPRODUCTIVE/FETAL/DEVELOPMENTAL TOXICITY: None of the ingredients in this product are known as reproductive, fetal, or developmental hazards.

SOFT SCRUB WITH BLEACH CLEANSER

TARGET ORGAN TOXICITY: None of the ingredients in this product are known to have target organ toxicity.

EPIDEMIOLOGICAL INFORMATION: None of the ingredients in this product are known to have health-related information in working populations.

SECTION 12: ECOLOGICAL INFORMATION

This product is anticipated to be safe for the environment at concentrations predicted in household settings under normal use conditions. The following toxicity information is available for the hazardous ingredient(s) when used as technical grade and is provided as reference for the occupational settings.

INGREDIENT	LC50/EC50 (ANIMAL SPECIE)	TOXICITY RATING
VERTEBRATES		
Sodium hypochlorite	96-hr LC50: 0.22 - 0.62 mg/L (Pimephales promelas - flow-through)	Extremely Toxic
	96-hr LC50: 5.9 mg/L (Pimephales promelas - static)	Toxic
	96-hr LC50: 8.4 mg/L (Brachydanio rerio- flow through)	Toxic
Sodium Alkane Sulfonate		
INVERTEBRATES		
Sodium hypochlorite	96-Hr EC50: 2.1 mg/L (Daphnia magna)	Toxic
Sodium Alkane Sulfonate	24-Hr EC50: 12.5 mg/L (Daphnia magna)	Harmful
PLANTS (ALGAE)		
Sodium hypochlorite	24-Hr EC50: 0.095 mg/L (Skeletonema costatum)	Extremely toxic
Sodium Alkane Sulfonate	72-Hr EC50: 95.5 mg/L (Desmodesmus subspicatus)	Harmful

ENVIRONMENTAL FATE:

No environmental fate data exists for the product. The product is anticipated to be rapidly biodegradable.

PERSISTENCE AND DEGRADABILITY: The persistence and degradability of this product has not been determined.

BIOACCUMULATION POTENTIAL: The bioaccumulation potential of this product has not been determined.

MOBILITY: The mobility of this product (in soil and water) has not been determined.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS: This product is a RCRA characteristic hazardous waste (corrosive) and must be disposed of in a RCRA Subtitle C landfill.

Industrial/Commercial Disposal:

WASTE NUMBER AND DESCRIPTION: D002

Consumer Disposal:

If empty: Do not reuse this container. Place in trash. If partly filled: Call you local solid waste agency or toll free number 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain. Dispose of container and unused contents in accordance with federal, state and local requirements. State and local disposal regulations may differ from federal disposal regulations.

SECTION 14: TRANSPORT INFORMATION**GROUND TRANSPORT**

DOT Hazard Class:

DOT Proper Shipping Name:

UN/NA Number:

Not regulated

Not applicable

Not applicable

Packing Group:

Shipping Label Information:

Not applicable

Not applicable

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Hazard Class:

ICAO/IATA Proper Shipping Name:

Not regulated

Not applicable

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Hazard Class:

IMDG/IMO Proper Shipping Name:

Not regulated

Not applicable

SECTION 15: REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

The Occupational Safety and Health Administration requires Material Safety Data Sheets to provide any hazards that may be associated with the product, and make this information available in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this MSDS may contain additional health hazard information not pertinent to consumer use.

EPA - SARA TITLE III SECTION 313: Not applicable - Consumer product.

EPA CERCLA/SARA TITLE III SUPERFUND AMENDMENT AND REAUTHORIZATION ACT:

This product contains no CERCLA/SARA Title III materials. This product is a hazardous chemical reportable under Sections 311/312. This product contains $\leq 2\%$ sodium hypochlorite (CAS# 7681-52-9) and $\leq 1\%$ sodium hydroxide (CAS# 1310-73-2), which are regulated under Section 304.

TSCA: This product is a registered biocide and is exempted from listing on the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

FIFRA: EPA Registration Number 64240-44-57125

EPA Establishment Number 5813-OH-01, 082055-IL-001

STATE REGULATIONS

CALIFORNIA PROPOSITION 65: This product does not contain substances listed under California Proposition 65.

CANADA:

CANADIAN ENVIRONMENTAL PROTECTION ACT:

INVENTORY STATUS: Some components of this product are not listed on the Canadian Domestic Substances List (DSL) nor the NDSL.

WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM:

WHMIS CLASSIFICATION: D2B.

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, The Dial Corporation makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, The Dial Corporation will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either expressed or implied of merchantability, fitness for a particular purpose or of any other nature is made hereunder with respect to the information set forth herein or to the product to which the information refers.

NFPA RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=2 FLAMMABILITY=1 REACTIVITY=0

HMIS RATINGS (Scale 0-4, where 4=severe hazard): HEALTH=2 FLAMMABILITY=1 REACTIVITY=0

MSDS CREATION DATE: 11/01/04

SUPERSEDES: Rev. 4, 04/24/09

REVISION DATE: 03/29/11

REVISION: Updated Formula I.D. Numbers, Composition, Toxicity Information

Material Safety Data Sheet

Issuing Date 26-Dec-2012

Revision Date 26-Dec-2012

Revision Number 3

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Equate Clear Hand Soap

Recommended Use Personal care.

Supplier Address

APOLLO HEALTH AND BEAUTY
CARE
1 APOLLO PLACE
TORONTO
ONTARIO
M3J 0H2
CA
Phone: 416 758 3700
Fax: 416 758 3701
Contact: Derek Sanderson
Email: dsanderson@apollocorp.com
Contact Phone: 416-758-3700-203

2. HAZARDS IDENTIFICATION

CAUTION!

Emergency Overview

May cause eye irritation

Appearance Clear, Light blue

Physical State Viscous liquid, Liquid.

Odor Slight

Potential Health Effects

Principle Routes of Exposure

Eye contact. Skin contact.

Acute Toxicity

Eyes

May cause irritation.

Skin

No known effect based on information supplied.

Inhalation

Not an expected route of exposure.

Ingestion

Ingestion of excessive amounts may cause stomach discomfort.

Chronic Effects

No known effect based on information supplied.

Aggravated Medical Conditions

Skin disorders.

Environmental Hazard

See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
PURIFIED WATER, USP	RR-34170-8	60-100
Sodium laureth sulfate	13150-00-0	7-13
Sodium chloride	20510-56-9	0.1 - 1
Decyl glucoside	41444-55-7	0.1 - 1

Cocamidopropyl betaine	83138-08-3	0.1 - 1
Fragrance (Irritating to eyes)	Fragrance	0.1 - 1
Peg-120 methyl glucose dioleate	86893-19-8	0.1 - 1
Citric acid	77-92-9	0.1 - 1
Tetrasodium EDTA	64-02-8	0.1 - 1
Dmdm hydantoin	6440-58-0	0.1 - 1
Peg-7 glyceryl cocoate	66105-29-1	0.1 - 1
Polyquaternium-7	26590-05-6	0.1 - 1
Sodium sulfate	7727-73-3	0.1 - 1
Polyethylene-polypropylene glycol	9003-11-6	0.1 - 1
Acid red 33	3567-66-6	< 0.1
Ci 42090	68921-42-6	< 0.1

4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Skin Contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable.
Flash Point	94C / 201F
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous Combustion Products	Carbon oxides.
Explosion Data	
Sensitivity to Mechanical Impact	No.
Sensitivity to Static Discharge	No.
Protective Equipment and Precautions for Firefighters	
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	

NFPA	Health Hazard 1	Flammability 0	Stability 0	Physical and Chemical Hazards -
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with eyes.
Environmental Precautions	Refer to protective measures listed in Sections 7 and 8.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.
Storage	Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Measures	Showers Eyewash stations Ventilation systems
Personal Protective Equipment	
Eye/Face Protection	No special protective equipment required.
Skin and Body Protection	No special protective equipment required.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, Light blue.	Odor	Slight.
Color Threshold	No information available	Physical State	Viscous liquid Liquid
pH	7		
Flash Point	201F / 94C	Autoignition Temperature	No information available
Decomposition Temperature	No information available	Boiling Point/Range	No information available
Melting Point/Range	No information available		
Flammability Limits in Air	No information available	Explosion Limits	No information available
Water Solubility	Soluble in water.	Solubility	No information available
Evaporation Rate	No information available	Vapor Pressure	No data available
Vapor Density	No data available	VOC Content (%)	Not applicable
Partition Coefficient: n-octanol/water			

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	None known.
Conditions to Avoid	None known.
Hazardous Decomposition Products	Carbon oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

27508.88 mg/kg (rat) estimated

LD50 Oral VALUE

LD50 Dermal VALUE

LC50 Inhalation (DUST) VALUE

LC50 Inhalation (VAPOR) VALUE

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium laureth sulfate	= 1820 mg/kg (Rat)	-	-
Citric acid	= 3000 mg/kg (Rat)	-	-
Tetrasodium EDTA	= 10 g/kg (Rat)	-	-
Dmdm hydantoin	= 2 g/kg (Rat)	-	-
Sodium sulfate	> 10000 mg/kg (Rat)	-	-
Polyethylene-polypropylene glycol	= 5700 mg/kg (Rat)	-	-

Chronic Toxicity

Chronic Toxicity

No known effect based on information supplied.

Target Organ Effects

None known.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Citric acid		LC50: 1516 mg/L (96 h static) Lepomis macrochirus		EC50: 120 mg/L (72 h) Daphnia magna
Tetrasodium EDTA	EC50: 1.01 mg/L (72 h) Desmodesmus subspicatus	LC50: 59.8 mg/L (96 h static) Pimephales promelas LC50: 41 mg/L (96 h static) Lepomis macrochirus		EC50: 610 mg/L (24 h) Daphnia magna
Sodium sulfate		LC50: 3040 - 4380 mg/L (96 h static) Lepomis macrochirus LC50: 13500 mg/L (96 h) Lepomis macrochirus LC50: 13500 - 14500 mg/L (96 h) Pimephales promelas LC50: > 6800 mg/L (96 h static) Pimephales promelas		EC50: 2564 mg/L (48 h) Daphnia magna EC50: 630 mg/L (96 h) Daphnia magna

Chemical Name	Log Pow
Citric acid	-1.72

13. DISPOSAL CONSIDERATIONS**Waste Disposal Methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Dispose of in accordance with local regulations.

California Hazardous Waste Codes 561

14. TRANSPORT INFORMATION

14. TRANSPORT INFORMATION

<u>DOT</u>	NOT REGULATED
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated

15. REGULATORY INFORMATION**International Inventories**

TSCA	Complies
DSL	Not determined

U.S. Federal Regulations**SARA 313**

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

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

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

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

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations**International Regulations**

1081456 - Equate Clear Hand Soap

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Mexico - Grade

Slight risk, Grade 1

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION

Prepared By

Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Issuing Date

26-Dec-2012

Revision Date

26-Dec-2012

Revision Note

No information available

General Disclaimer

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

End of Safety Data Sheet

SAFETY DATA SHEET



SUPER TRUMP

Section 1. Chemical product and company identification

Product name : SUPER TRUMP
Recommended use and restrictions : Machine Warewashing Detergent

Use only for the purpose on the product label.

Product dilution information : Up to 0.2 oz/gal or 1.6 mL/L in water

Supplier's information : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

Code : 913681

Date of issue : 06 Sep 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

GHS Classification : **Product AS SOLD**
SKIN CORROSION/IRRITATION - Category 1
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

GHS label elements

Signal word : Danger

Symbol :



Hazard statements : Causes severe skin burns and eye damage.

Precautionary statements

Prevention : Wear protective gloves. Wear eye or face protection. 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.

Product AT USE DILUTION

SKIN CORROSION/IRRITATION - Category 1
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

Danger



Causes severe skin burns and eye damage.

Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands thoroughly after handling.

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

SUPER TRUMP

Section 2. Hazards identification

Storage : No other specific measures identified.
 Disposal : See section 13 for waste disposal information.
 Other hazards : None known.

or physician.
 No other specific measures identified.
 See section 13 for waste disposal information.
 None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Concentration Range (%)

CAS number

Hazardous ingredients

21

1310-73-2

SODIUM HYDROXIDE

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

Section 4. First aid measures

Product AS SOLD

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Skin contact : Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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

Ingestion : Get medical attention immediately. Rinse mouth. Do not induce vomiting.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Product AT USE DILUTION

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Take off immediately all contaminated clothing. Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.

Get medical attention immediately. Rinse mouth. Do not induce vomiting.

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing media : Use water spray, fog or foam.

Specific hazards arising from the chemical

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

Hazardous thermal decomposition products

: Decomposition products may include the following materials:
 carbon dioxide
 carbon monoxide
 phosphorus oxides
 metal oxide/oxides

Section 5. Fire-fighting measures

Specific fire-fighting methods

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

Special protective equipment for fire-fighters

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

Section 6. Accidental release measures

Personal precautions

Product AS SOLD

- : Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.
- : Avoid contact of spilled material and runoff with soil and surface waterways.
- : Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

Environmental precautions Methods for cleaning up

Product AT USE DILUTION

Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled material.

Avoid contact of spilled material and runoff with soil and surface waterways.

Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

Section 7. Handling and storage

Handling

Product AS SOLD

- : Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

Product AT USE DILUTION

Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

Keep out of reach of children. Keep container tightly closed.

Storage

- : Keep out of reach of children. Keep container tightly closed.

Store between the following temperatures: 5 and 50°C

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name

SODIUM HYDROXIDE

Exposure limits

ACGIH TLV (United States, 3/2012).

C: 2 mg/m³

OSHA PEL (United States, 6/2010).

TWA: 2 mg/m³ 8 hours.

NIOSH REL (United States, 6/2009).

CEIL: 2 mg/m³

SUPER TRUMP

Section 9. Physical and chemical properties

Viscosity : Not available.

Section 10. Stability and reactivity

Product AS SOLD

Stability

Possibility of hazardous reactions

Conditions to avoid

Materials to avoid

Hazardous decomposition products

- : The product is stable.
- : Under normal conditions of storage and use, hazardous reactions will not occur.
- : No specific data.
- : Reactive or incompatible with the following materials: acids.
- : Slightly reactive or incompatible with the following materials: organic materials, metals, alkalis and moisture.
- : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion

Product AS SOLD

Symptoms

Eye contact

- : Adverse symptoms may include the following:
pain
watering
redness

Skin contact

- : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Inhalation

- : Adverse symptoms may include the following:
coughing
Respiratory tract irritation

Ingestion

- : Adverse symptoms may include the following:
stomach pains

Acute toxicity

Eye contact

Skin contact

Inhalation

Ingestion

- : Causes serious eye damage.
- : Causes severe burns.
- : May cause respiratory irritation.
- : May cause burns to mouth, throat and stomach.

Toxicity data

Product/ingredient name

Not applicable.

Chronic toxicity

Carcinogenicity

Mutagenicity

Teratogenicity

Developmental effects

Fertility effects

- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.

Product AT USE DILUTION

Adverse symptoms may include the following:
pain
watering
redness

Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Adverse symptoms may include the following:
coughing
Respiratory tract irritation

Adverse symptoms may include the following:
stomach pains

Causes serious eye damage.

Causes severe burns.

May cause respiratory irritation.

May cause burns to mouth, throat and stomach.

SUPER TRUMP

Section 12. Ecological information

Product AS SOLD

Ecotoxicity

: This material is harmful to aquatic life.

Aquatic and terrestrial toxicity

Product/ingredient name

sodium hydroxide

Result

Acute EC50 40 mg/l

Species

Daphnia

Exposure

48 hours

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

Product AS SOLD

: Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

Product AT USE DILUTION

Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

RCRA classification : Unused product is D002 (Corrosive)

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification

UN1824

DOT Proper shipping name

Sodium hydroxide solution

Class

8

Packing group

II

IMO/IMDG

IMO/IMDG Classification

UN1824

IMO/IMDG Proper shipping name

SODIUM HYDROXIDE SOLUTION

Class

8

Packing group

II

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) inventory

: All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

SARA 313

Product name

Form R - Reporting requirements

: No listed substance

California Prop. 65

: No listed substance

CAS numberConcentration

SUPER TRUMP

Section 16. Other information

Product AS SOLD
Hazardous Material
Information System (U.S.A.) :

Health	*	3
Flammability		0
Physical hazards		0

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

Health	3	0	0
	Flammability		
	Instability/Reactivity		
	Special		

Product AT USE DILUTION

Health	3
Flammability	0
Physical hazards	0

Health	3	0	0
	Flammability		
	Instability/Reactivity		
	Special		

Date of issue : 06 Sep 2013
Prepared by : Regulatory Affairs
1-800-352-5326

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

Material Safety Data Sheet

May be used to Comply with
OSHA's Hazard Communication Standard 29 CFR 1910.
Standard must be consulted for specific requirements

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form) Form Approved OMB No. 1218-0072

Identity (As Used On Label and List)

9730

Wave Gle Lavender

NOTE: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that

Section I—Manufacturer's Name

Earth Friendly Products
Midwestern Division
111. Rohlwing Rd.
Addison, IL 60101

(Address, Street, City, State, & Zip Code)

Emergency Telephone Number

Chemtrec 1-800-424-9300

Telephone Number for Information
(630) 595-1900

Date Prepared

Revised: 10/12/10

HAZARD RATING

HEALTH

0

FLAMMABILITY

0

REACTIVITY

0

0 - Minimal
1 - Slight
2 - Moderate
3 - Serious
4 - Extreme

Protective Equipment

None Necessary

Section II—Hazardous Ingredients / Identity Information

Hazardous Components (Specify Chemical Identity, Common Names)

None

OSHA PEL ACGIH TLV Other Limits Recommended % (optional)

Section III—Physical Chemical Characteristics

Boiling Point

212°F

Specific Gravity (WATER =1) 1.04

Vapor Pressure

Not Determined

Melting Point

N/A

Vapor Density

Noy Determined

Evaporation Rate

Not Determined

Solubility in Water

Complete

Appearance and Odor

Hazy, opaque, viscous gel with a lavender scent

Section IV—Fire and Explosion Hazard Data

Flash Point

>200°F C.O.C.

Flammable Limits

None

LEL

None

UEL

None

Extinguishing Media

This material is nonflammable

Special Fire Fighting Procedures

This material is nonflammable

Unusual Fire and Explosion Hazards

None

Section V—Reactivity Data

Stability	Unstable	Conditions to Avoid None
	Stable X	
Incompatibility (Materials to Avoid)	None known. Product non-hazardous & nonflammable.	
Hazardous Decomposition or Byproducts	None known non-hazardous	

Hazardous Polymerization	May Occur	X	Conditions to Avoid	None
	Will Not Occur			
				Ingestion? No

Section VI—Health Hazard Data

Route(s) of Entry:	Inhalation? No	Skin? No	Ingestion? No
Health Hazards (Acute and Chronic)			
Acute: Eyes, Skin, Throat and Lungs - None when used under normal conditions. Non hazardous material			
Chronic: none known.			

Carcinogenicity:	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
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Signs and Symptoms of Exposure	None
--------------------------------------	------

Medical Conditions Generally Aggravated	None
--	------

Emergency and First Aid Procedures	Eyes- None if used under normal circumstances/ flush with water if contact with eye. Skin- No treat is necessary under ordinary circumstances. Inhalation- This material does not present any known inhalation hazard. Ingestion - This material does not present any known ingestion hazard.
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Section VII—Precautions For Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled	Absorb the spill with paper towels or mop. Product is non-hazardous & nonflammable. All ingredients are replenishable and sustainable plant based ingredients.
Waste Disposal	None to be taken non-hazardous.

Precautions to be Taken in Handling and Storage	None non-hazardous
Other Precautions	None

Section VIII—Control Measures

Respiratory Protection (Specify Type)	Not required under normal use conditions.
--	---

Ventilation	Local Exhaust	None
	Mechanical (General)	None

Protective Gloves	none	Eye Protection	none
Other Protective Clothing or Equipment	None	Work / Hygienic Practices	Observe good personal hygiene. Wash hands before eating, avoid inhalation or ingestion.

Section IX — Transportation Information

U.S. DOT Information

Not regulated by D.O.T.

Proper Shipping Name: N/A

UN/NA Number: N/A

Hazard Class/Division: N/A

Packing Group: N/A

Label (s): N/A

Placard (s): N/A

SAFETY DATA SHEET



Issue date 13 May 2015

FM000001-00.1,01.5,02.5,03.3

This Safety Data Sheet (SDS) is intended to provide product information for workplaces, emergency personnel and other situations where there is potential for longer exposure or exposure to larger quantities of product. For consumer use, applicable precautionary information is provided on the product label. This SDS is designed to cover both U.S. and Canadian requirements. Differences between U.S. and Canadian requirements are noted where applicable.

Section 1: Identification of Product and Company

Product Name	Dish Liquid
Synonyms	Natural Dish Liquid
Product Use	Hand Dishwashing
Restrictions on Use	Follow directions on the product label
Manufacturer Name	Seventh Generation, Inc.
Address	60 Lake Street, Burlington, VT 05401, USA
Emergency Telephone Number	U.S. Canada
Monday -Friday 8 am - 5 pm ET (except holidays)	1-800-211-4279
Outside these hours	1-800-255-3924 (ChemTel)

Section 2: Hazards Identification

Hazardous Materials Identification System (HMIS) Rating Legend: 4-Severe, 3-Serious, 2-Moderate, 1-Slight, 0-Minimal	HEALTH	0
	FLAMMABILITY	0
	PHYSICAL HAZARDS	0
	PERSONAL PROTECTION	A

National Fire Protection Association (NFPA) Rating	Not determined
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Classification	
U.S.	This product is not considered hazardous under the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
Canada	This product is not considered hazardous under the WHMIS 2015.

Emergency Overview	No known health hazards.
Precautionary Statements	
Eyes	Minimal Irritant
Skin	Non-Irritant
Ingestion	Non-Toxic
Inhalation	No health effects are expected.
Hazards not otherwise identified	None known
Percent ingredients with unknown acute toxicity	0% of the product consists of ingredients of unknown acute oral toxicity. Refer to Section 3.

Section 3: Composition, Information on Ingredients

Regardless of hazard classification, Seventh Generation discloses all intentionally added ingredients and, if applicable incidental ingredients $\geq 1\%$ on the consumer product label.

Ingredient	Function	CAS Number	Concentration ¹	LD50 ²
aqua (water)	diluent	7732-18-5	30% - 100%	Not applicable
sodium lauryl sulfate	cleaning agent	151-21-3	10% - 30%	>500-5000 mg/kg
glycerin	foam stabilizer	56-81-5	1% - 3%	>12600 mg/kg
lauramine oxide	cleaning agent	1643-20-5	1% - 3%	3600 mg/kg

SAFETY DATA SHEET



caprylyl/myristyl glucoside	cleaning agent	68515-73-1 & 110615-47-9	≤1%	>2000 mg/kg
magnesium chloride	viscosity modifier	7791-18-6	≤1%	8100 mg/kg
citric acid	pH adjuster	77-92-9	≤1%	3000 mg/kg
essential oils & botanical extracts*	fragrance	mixture	≤1%	>2000 mg/kg
benzisothiazolinone (and) methylisothiazolinone	preservatives	2634-33-5 & 2682-20-4	≤1%	>2500 mg/kg

*Free & Clear: not applicable.

*Lavender Floral & Mint: cananga odorata (ylang ylang) flower oil, citrus aurantifolia (lime) oil, citrus aurantium dulcis (orange) oil, lavandula hybrida (lavandin) oil, mentha piperita (peppermint) oil, mentha viridis (spearmint) leaf oil. d-Limonene is a component of these essential oils.

*Lemongrass & Clementine Zest: canarium luzonicum (elemi) gum nonvolatiles oil, citrus aurantium bergamia (bergamot) fruit oil, citrus aurantium dulcis (orange) oil, citrus nobilis (mandarin orange) peel oil, cymbopogon schoenanthus (lemongrass) oil, tangelo oil. d-Limonene is a component of these essential oils.

*Fresh Citrus & Ginger: canarium luzonicum (elemi) gum nonvolatiles, cedrol, cinnamomum zeylanicum (cinnamon) bark extract, citrus aurantifolia (lime) oil, citrus aurantium amara (bitter orange) oil, citrus aurantium bergamia (bergamot) fruit oil, citrus aurantium dulcis (orange) oil, citrus limon (lemon) peel oil, coriandrum sativum (coriander) fruit oil, elettaria cardamomum (cardamon) seed oil, eugenia caryophyllus (clove) leaf oil, myristica fragrans (nutmeg) kernel oil, pelargonium graveolens (geranium) flower oil, zingiber officinale (ginger) root oil. d-Limonene is a component of these essential oils.

*Fresh Lime & Lavender: cananga odorata (ylang ylang) flower oil, citrus aurantifolia (lime) oil, citrus aurantium dulcis (orange) oil, lavandula hybrida (lavandin) oil, mentha piperita (peppermint) oil, mentha viridis (spearmint) leaf oil. d-Limonene is a component of these essential oils.

¹ Where ranges are shown, the exact concentration has been withheld as a trade secret.

² LD50 Acute oral toxicity (rat) – This is a value provided by the raw material supplier or scientific literature. It is not a value generated by Seventh Generation by testing using rats. Seventh Generation uses alternative, non-animal based methods and scientific literature to determine the safety classification of our products and their ingredients.

Section 4: First Aid Measures

Eye Contact	Flush eyes with water immediately after contact. Call a physician if irritation develops or persists.
Skin Contact	Rinse thoroughly with water if skin contact occurs. Call a physician if irritation develops or persists.
Ingestion	Drink 4-8 ounces of water or milk immediately. If prolonged nausea or pain occurs call a doctor.
Inhalation	No need for first aid is expected.
Notes to Physician	Treat symptomatically.
Most important symptoms and effects	Acute exposure may result in eye irritation.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam.
Unsuitable Extinguishing Media	Not available.
Specific Hazards arising from the chemical mixture	Not available.
Hazardous Combustion Products	Not available.
Protective Equipment and Precautions for Firefighters	Fire fighters should wear full protective clothing and self contained breathing apparatus as for surrounding fire.

Section 6: Accidental Release Measures

Personal Precautions	
Industrial Setting	Wear appropriate personal protective equipment (refer to Section 8).
Environmental Precautions	Avoid entry into lakes, streams, ponds or public waterways.
Methods for Containment and Cleaning Up	
Household Setting	Small spills and leaks may be cleaned up and disposed of in normal household trash or diluted and disposed of via sewer.

SAFETY DATA SHEET



Industrial Setting	Before attempting clean up, refer to hazard data given. Material may be slippery if spilled and wet. Prevent spill from entering a waterway. Stop spill at source and contain material. Dispose liquid in accordance with all applicable local, state, and federal regulations. Small amounts may be flushed to sewer.
--------------------	--

Section 7: Handling and Storage

Safe Handling	
Household Setting	Use as directed on product label.
Industrial Setting	Wear appropriate personal protective equipment (refer to section 8).
Safe Storage	KEEP OUT OF REACH OF CHILDREN AND PETS.
	Store in original container and keep container closed when not in use.
Storage Incompatibilities	Avoid freezing.
	None known.

Section 8: Exposure Controls, Personal Protection

Exposure Limits	None known.
Engineering Controls	Not applicable.
Personal Protective Equipment (PPE)	
Household Setting	No special precautions necessary as long as product is used as directed.
Industrial Setting	
Respiratory Protection	None required under normal conditions. General ventilation required.
Eye Protection	Goggles or other protective eye wear may be worn for protection.
Skin Protection	Gloves may be worn for protection.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

Physical State	Liquid.
Color	Light amber
Clarity	Clear
Odor	Unscented: Characteristic of the ingredients. Scented: Characteristic of the ingredients.
Odor Threshold	Not available.
pH	7.9 - 8.1
Melting Point	Not available.
Freezing Point	Not available.
Initial Boiling Point and Boiling Range	Not available.
Flash Point	Not available. Aqueous Solution.
Evaporation Rate	Not available.
Upper Explosive Limit (UEL)	Not applicable.
Lower Explosive Limit (LEL)	Not applicable.
Vapor Pressure (mmHg)	Not available.
Specific Gravity (H ₂ O = 1)	1.01 - 1.04
Relative Density	Not available.
Vapor Density (Air = 1)	Not available.
Solubility in Water	Miscible
Partition Coefficient: n-octanol/water	Not available.
Viscosity	Not available.
VOC (weight %)	Not available.

Section 10: Stability and Reactivity

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Reactivity	Not available.
Chemical Stability	Stable.
Possibility of Hazardous Reactions	None known.
Conditions to Avoid	None known.
Incompatible Materials	In general, cleaning products should not be mixed with other household chemicals, unless specifically provided for in the use directions.
Household Setting	None known.
Industrial Setting	None known.
Hazardous Decomposition Products	None known.

Section 11: Toxicological Information

Potential Route(s) of Exposure	Eyes. Skin. Ingestion.
Effects of Acute Exposure	
Oral Toxicity	LD50 >5000 mg/kg, calculated based on ingredients.
Dermal Toxicity	Not available.
Inhalation Toxicity	Not available.
Eye Contact	Minimal Irritant, based on in-vitro data.
Skin Contact	Non-Irritant, based on Human Repeat Insult Patch Test (HRIPT).
Component Information	Refer to section 3 for ingredient LD50 (acute oral).
Effects of Chronic Exposure	Not expected to have chronic health effects.
Sensitization	Does not indicate a potential for allergic contact sensitization, based on Human Repeat Insult Patch Test (HRIPT).
Carcinogenicity	Not expected to have chronic health effects.
NTP	No Ingredients Listed
IARC	No Ingredients Listed
OSHA	No Ingredients Listed
Reproductive Effects	Not expected to have chronic health effects.
Teratogenicity	Not expected to have chronic health effects.
Mutagenicity	Not expected to have chronic health effects.
Target Organ Effects	Not expected to have chronic health effects.

Section 12: Ecological Information

Ecotoxicity	Not available.
Persistence and Degradability	This product is biodegradable, based on ingredients.
Bioaccumulative Potential	Not applicable.
Mobility in Soil	Not available.
Environmental Fate	No adverse effects expected.

Section 13: Disposal Considerations

Product Waste	Any disposal must be in compliance with applicable local, state, provincial and federal laws and regulations.
Household Setting	Product residues in the bottle may be discarded in trash, or diluted with water and disposed via sewer. When used as directed, the product is septic-safe.
Industrial Setting	When disposed as waste in its original form, this product is not considered hazardous waste under Federal regulations, however regulations may vary by state or province and may designate it as hazardous waste. Check with your local waste and waste water authorities. We are aware of the following state waste classifications:
California Hazardous Waste Code	561
Connecticut Hazardous Waste Code	CT04

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Michigan Liquid Waste Code	029L
Washington Hazardous Waste Code	WT02
Empty Packaging	Offer empty container for recycling. If recycling is not available, discard in trash. 

Section 14: Transport Information

U.S. DOT (Surface Transport)	Not regulated.
U.S. States (Surface Transport)	Not regulated as finished product. Regulated in some states if the product is disposed of in its original form as waste by commercial users/handlers. Refer to Section 13. for applicable state waste codes.
Canadian TDG (Surface Transport)	Not regulated.
IATA (Air Transport)	Not regulated.
IMDG (Marine Transport)	Not regulated.

Section 15: Regulatory Information

U.S.	This product complies with the inventory requirements of the U.S. Toxic Substances Control Act (TSCA).
Toxic Substances Control Act (TSCA)	This product is not subject to the labeling requirements of California's Proposition 65.
California Prop 65	Not applicable.
California Air Resources Board (CARB)	
Canada	This product complies with the inventory requirements under Canada's Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL) or is otherwise in compliance with the New Substances Notification (NSN) regulations or exemptions.
Domestic Substances List (DSL)	Regardless of hazard classification, Seventh Generation discloses all intentionally added ingredients and, if applicable incidental ingredients $\geq 1\%$ on the product label. Please refer to Section 3. of this SDS for ingredient listing.
Right to Know	Fragrances used in this product comply with applicable International Fragrance Association (IFRA) guidance.
Other	

Section 16: Other Information

Prepared by	Seventh Generation Inc.
Issuing Date	13 May 2015
Revision Date	13 May 2015
Revision Note	Revised format as per OSHA 2012 and WHMIS 2015.

Please note: This product is manufactured and marketed for consumer use and should be used as directed on the product label for the intended purpose. Seventh Generation warrants that this product conforms to our standard specification when released to the market and when used according to directions. To the best of our knowledge, the information contained herein is accurate. However, we do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any product is the sole responsibility of the user. All products may present unknown hazards and should be used with requisite caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other abbreviations used in this document:
DOT – (U.S.) Department of Transportation
EPA – (U.S.) Environmental Protection Agency

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IARC – International Agency for Research on Cancer
NTP – (U.S. Department of Health and Human Services) National Toxicology Program
OSHA – (U.S.) Occupational Safety and Health Administration
TDG – (Canadian) Transport of Dangerous Goods
WHMIS – (Canadian) Workplace Hazardous Materials Information System

End of Safety Data Sheet

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012



Product: Stainless Steel Cleaner and Polish- 02, 49, 102

Revision Date: 11-Mar-2015

SECTION 1 – IDENTIFICATION

Product Identifier

Product Name: Stainless Steel Cleaner and Polish

Product Code: 02, 49, 102

Recommended Use of the Chemical and Restrictions for Use

Recommended Use: Cleaner

Restrictions for Use: Use only as directed.

Details of the Supplier

Manufacturer: Weiman Products
755 Tri-State Parkway
Gurnee, IL 60031
847-263-3500

Emergency Phone Number

24-Hour Number: 1-800-535-5053

International: 1-352-323-3500

SECTION 2 – HAZARDS IDENTIFICATION

Classification

Hazard Class	Category
Flammable aerosol	2
Gases under pressure- Liquefied gas	N/A

Label Elements

Hazard Symbols(s):



Signal Word(s): Warning

Hazard Statement(s): Flammable aerosol. Contains gas under pressure; may explode if heated.

Precautionary Statement(s): Keep away from heat/sparks/open flames/hot surfaces.-No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in well-ventilated place.

Other Hazards

1% of the mixture consists of ingredients of unknown acute toxicity.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Wt %
Petroleum gases, liquefied	68476-85-7	10-30
Petroleum distillates, hydrotreated light	64742-47-8	7-13
White mineral oil, petroleum	8042-47-5	7-13

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4 – FIRST AID MEASURES

First Aid Measures

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Eye Contact: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.

SAFETY DATA SHEET

Conforms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012



Product: Stainless Steel Cleaner and Polish- 02, 49, 102

Revision Date: 11-Mar-2015

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

Skin: If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists.

Most Important Symptoms and Effects (Acute and Delayed)

Inhalation: May cause respiratory tract irritation.

Eye Contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Skin: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physician: Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Suitable: Treat for surrounding material.

Unsuitable: None known.

Specific Hazards Arising from Chemical

Flammable aerosol. Products of combustion include, and are not limited to: oxides of carbon. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Protective Equipment and Precautions for Firefighters

Cool closed containers exposed to fire with water spray. Keep upwind of fire. Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Personal Precautions: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental Precautions: See Section 12 for ecological information.

Methods and Material for Containment and Cleaning Up

Eliminated sources of ignition. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). Scoop up material and place in a disposal container. Provide ventilation.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Keep away from sources of ignition- No smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. When using do not eat, drink or smoke. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

General Hygiene Advice: Launder contaminated clothing before use. Wash hands before eating, drinking, or smoking.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Proper grounding procedures to avoid static electricity should be followed. Keep out of the reach of children. Do not expose to temperatures exceeding 50°C/122°F. Store away from direct sunlight or other heat sources. Store in a well-ventilated place.

Incompatible Materials: Strong oxidizing agents.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines:

Document No.: 130529-5
Release Date: 1/10/2014

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012



Revision Date: 11-Mar-2015

Product: Stainless Steel Cleaner and Polish- 02, 49, 102

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum gases, liquefied (68476-85-7)	1000 ppm	180 mg/m ³	Not available
Petroleum distillates, hydrotreated light (64742-47-8)	Not available	Not available	Not available
White mineral oil, petroleum (8042-47-5)	Not available	Not available	Not available

Appropriate Engineering Controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Individual Protection Measures

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

Skin and Body Protection: Wear suitable protective clothing.

Eye/Face Protection: Safety glasses or goggles are recommended when using product.

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

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White emulsion

Odor: Floral

Odor threshold: Not determined

pH: Not determined

Melting point/freezing point: Not determined

Initial boiling point and boiling range: Not determined

Flash point: >93.3°C (>200°F) TCC (concentrated product)

Evaporation rate: Not determined

Flammability (solid, gas): Flammable aerosol

Upper/lower flammability or explosive limits: Not determined

Vapor pressure: Not determined

Vapor density: Not determined

Relative density: 0.94

Solubility(ies): Not determined

Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: 2900-5600 cP at 25°C (77°F)

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical stability: Stable under recommended storage conditions. Flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn.

Possibility of hazardous reactions: None under normal use.

Conditions to avoid: Heat. Incompatible materials. Sources of ignition.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: May include and are not limited to: oxides of carbon.

SECTION 11 - TOXICOLOGICAL INFORMATION

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012

WEIMAN

Revision Date: 11-Mar-2015

Product: Stainless Steel Cleaner and Polish- 02, 49, 102

Information on Toxicological Effects

Likely Routes of Exposure: Inhalation, skin contact, eye contact, ingestion

Information Related to Physical, Chemical, and Toxicological Effects

See section 4 of this SDS.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity: NTP: No IARC: No OSHA: No

Numerical Measures of Toxicity

Product	>2000 mg/kg, rat
ATE (oral)	>2000 mg/kg, rabbit
ATE (dermal)	>5 mg/l/4h, rat
ATE (inhalation)	

Component Information:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum gases, liquefied (68476-85-7)	Not available	Not available	658 mg/l/4h (rat)
Petroleum distillates, hydrotreated light (64742-47-8)	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	>5.2 mg/l/4h (rat)
White mineral oil, petroleum (8042-47-5)	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	>5 mg/l/4h (rat)

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Not established

Persistence and degradability: Not established

Bioaccumulative potential: Not established

Mobility in soil: Not established

Other adverse effects: No additional information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

See section 8 of this SDS for exposure controls and personal protection.

Dispose of the product and container in accordance with all applicable local, state, and federal regulations.

SECTION 14 - TRANSPORT INFORMATION

Note: Classification changes based on quantity, packaging, and method of shipment. See current shipping paper for most up to date shipping information.

UN1950, Aerosols, 2.1

DOT (Ground): Limited quantity

IATA (Air): Regulated

IMDG (Vessel): Limited quantity

SECTION 15 - REGULATORY INFORMATION

All ingredients in this product are listed or are excluded from listing on the US Toxic Substances Act (TSCA) Chemical Substance Inventory.

This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration (OSHA) applicable to this Safety Data Sheet differ from the requirements of the CPSC and as a result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

SECTION 16 - OTHER INFORMATION

Issue Date: 11-Mar-2015

Revision Date: 11-Mar-2015

Document No.: 130529-5
Release Date: 1/10/2014

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012



Revision Date: 11-Mar-2015

Product: Stainless Steel Cleaner and Polish- 02, 49, 102

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

End of Safety Data Sheet

SAFETY DATA SHEET
UNITED 8OZ WHITEBOARD SPRAYPage 1
Issued: 15/02/2007
Revision No: 1**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

Product name: UNITED 8OZ WHITEBOARD SPRAY
Product code: (00-040)
Use / description of product: No significant hazard. The regulatory information is dependent upon the concentration limit of the specific substance.
Company name: SYSTEMCARE
Unit 6/7 Maybrook Industrial Estate
Maybrook Road
Walsall Wood, Brownhills
West Midlands
WS8 7DG
UK
Tel: +44(0)1543 454872
Fax: +44(0)1543 454184

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: TRISODIUM NITROLTRIACETATE <5%
[Xi] R36
• N,N-METHYLENE BIS MORPHOLINE <5%
[Xn] R22; [Xi] R36/38

Contains: No Hazardous Ingredients
ALSO CONTAINS: DIPROPYLENE GLYCOL MONOMETHYL ETHER (5-10%)

3. HAZARDS IDENTIFICATION

Main hazards: No significant hazard.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: No symptoms.
Eye contact: There may be irritation and redness.
Ingestion: No symptoms.
Inhalation: No symptoms.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes.
Ingestion: Wash out mouth with water. Do not induce vomiting.
Inhalation: Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Alcohol or polymer foam. Dry chemical powder. Water spray.

[cont...]



COLGATE-PALMOLIVE Company
SAFETY DATA SHEET

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Soft Soap hand Soap -

FABULOSO ALL PURPOSE CLEANER LIQUID OCEAN COOL

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

Version 1.1

SDS Number: 660000000399

Revision Date: 05/22/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : FABULOSO ALL PURPOSE CLEANER LIQUID OCEAN COOL

Product code : 200000038592

: B02925820004

Manufacturer or supplier's details

Company : Colgate-Palmolive Co
300 Park Avenue
New York, NY 10022

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

Emergency telephone number : For emergencies involving spill, leak, fire, exposure or accident call CHEMTREC (24hr) at (800) 424-9300 or (703) 527-3887.

Medical Emergency (24HR): For MEDICAL EMERGENCIES involving this product call: (888) 489-3861

Recommended use of the chemical and restrictions on use

Recommended use : Formulated all purpose cleaner for household use.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Colour	blue

GHS Classification

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitisation : Category 1

GHS Label element

Hazard pictograms :





COLGATE-PALMOLIVE Company
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FABULOSO ALL PURPOSE CLEANER LIQUID OCEAN COOL

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Signal word	: Warning
Hazard statements	: H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
Precautionary statements	: Prevention: P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear eye protection/ face protection. P280 Wear protective gloves. Response: 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. 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. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Inhalation	: No adverse effects due to inhalation are expected.
Skin	: May cause skin irritation upon prolonged contact.
Eyes	: Causes eye irritation on direct contact.
Ingestion	: May be harmful if swallowed in large quantities.
Aggravated Medical Condition	: None known.

Carcinogenicity:

IARC

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

ACGIH

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

OSHA

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

NTP

No component of this product present at levels greater than or



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Version 1.1

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equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
(C10-C16) Alkylbenzenesulfonic acid	68584-22-5	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

- If inhaled : Remove victim to fresh air. Get medical attention, if symptoms persist.
- In case of skin contact : Flush skin with large amounts of water. If irritation develops and persists, get medical attention.
- In case of eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
- If swallowed : Drink 8 ounces of clear water. Get medical attention.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Hazardous combustion products : No hazardous combustion products are known
- Special protective equipment for firefighters : Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protection recommended in Section 8 of the SDS.
- Methods and materials for containment and cleaning up : Cover with inert, absorbent material and remove to disposal container. Spill area may be slippery. Flush with plenty of water.



FABULOSO ALL PURPOSE CLEANER LIQUID OCEAN COOL

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Version 1.1

SDS Number: 660000000399

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SECTION 7. HANDLING AND STORAGE

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

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

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

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

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : blue

pH : 7

Flash point : > 200 °F

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : None known.



FABULOSO ALL PURPOSE CLEANER LIQUID OCEAN COOL

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

Version 1.1

SDS Number: 660000000399

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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

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

Acute inhalation toxicity : Acute toxicity estimate : > 10 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Components:

(C10-C16) Alkylbenzenesulfonic acid:

Acute oral toxicity : LD50 (Rat): 1,460 mg/kg
Method: No information available.

Acute inhalation toxicity : LC50 (Rabbit): > 1.9 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Causes skin irritation.

Components:

(C10-C16) Alkylbenzenesulfonic acid:

Result: Corrosive after 1 to 4 hours of exposure

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

(C10-C16) Alkylbenzenesulfonic acid:

Result: Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Components:

(C10-C16) Alkylbenzenesulfonic acid:

Exposure routes: Inhalation

Remarks: No data available

Exposure routes: Dermal



COLGATE-PALMOLIVE Company
SAFETY DATA SHEET

FABULOSO ALL PURPOSE CLEANER LIQUID OCEAN COOL

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Version 1.1

SDS Number: 660000000399

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Result: May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

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

SECTION 12. ECOLOGICAL INFORMATION

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

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

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

SECTION 14. TRANSPORT INFORMATION



COLGATE-PALMOLIVE Company
SAFETY DATA SHEET

FABULOSO ALL PURPOSE CLEANER LIQUID OCEAN COOL

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

Version 1.1

SDS Number: 660000000399

Revision Date: 05/22/2015

DOT : Not regulated.
TDG : Not regulated.
IATA : Not regulated.
IMDG : Not regulated.

International Regulation

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

National Regulations

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sulfuric Acid	7664-93-9	1000	*
Sulfuric Acid	7664-93-9	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sulfuric Acid	7664-93-9	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 302

: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

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

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

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

Clean Water Act



COLGATE-PALMOLIVE Company
SAFETY DATA SHEET

FABULOSO ALL PURPOSE CLEANER LIQUID OCEAN COOL

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

Version 1.1 SDS Number: 660000000399 Revision Date: 05/22/2015

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

SODIUM HYDROXIDE	1310-73-2
Sulfuric Acid	SULFURIC ACID

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

SODIUM HYDROXIDE	1310-73-2
Sulfuric Acid	SULFURIC ACID

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

Massachusetts Right To Know

Sulfuric Acid

SULFURIC
ACID

Pennsylvania Right To Know

WATER
2-PHENOXYETHANOL
SODIUM HYDROXIDE
Sulfuric Acid

Water
122-99-6
1310-73-2
SULFURIC
ACID

New Jersey Right To Know

WATER
PROPYLENE GLYCOL PROPYL ETHER
(C10-C16) Alkylbenzenesulfonic acid

Water
1569-01-3
68584-22-5

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:

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

Inventories

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



COLGATE-PALMOLIVE Company
SAFETY DATA SHEET

FABULOSO ALL PURPOSE CLEANER LIQUID OCEAN COOL

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

Version 1.1

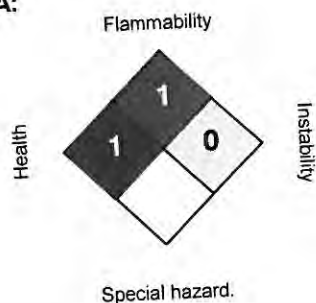
SDS Number: 660000000399

Revision Date: 05/22/2015

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

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



Division of Candle Corporation of America

MATERIAL SAFETY DATA SHEET

MSDS #0001

REVISED DATE: 5-31-2002

PRODUCT NAME: STERNO BRAND® CANNED HEAT™ COOKING FUEL

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

ACUTE HEALTH	FIRE	REACTIVITY	HMIS	LEAST- 0	SLIGHT- 1	MODERATE- 2
2	3	0	HAZARD RATING:		HIGH - 3	EXTREME- 4

PRODUCT NAME: STERNO BRAND® CANNED HEAT™ COOKING FUEL **SYNONYM: EAM Part No. RE1097-1**

UPC/SKU #: US Domestic: ST04006 (2 5/8 oz), ST04006ED, ST04008 (7 oz), ST04008ED, ST04008S, ST04037, ST04040, ST04041, ST04042, ST04043, ST04048, ST04049, ST04528 (gal.)

Canadian Institutional: ST03121, ST03142, ST04528C (gal.)

Canadian Retail: ST00391 (7 oz), ST03136 (2 5/8 oz)

International: ST04008B, ST04008BZG, ST04008T, ST04406, ST04406J, ST04408, ST04408J, ST04528B (gal.)

CAS NUMBER: Not applicable - product is a mixture

GENERAL USE: A gelled alcohol food warming fuel. Fuel is SDA-3A (ethyl alcohol denatured with methyl alcohol.)

The STERNO GROUP
Division of Candle Corporation of America
999 E Touhy, Suite 450
Des Plaines, IL USA 60018

DOMESTIC: For consumer information: Call toll free: 1-(888) 4-LITES-1

EMERGENCY TELEPHONE NUMBER: For emergencies involving spill, leak, fire, exposure or accident, call CHEMTREC: 1-(800) 424-9300, day or night.

THE PITTSBURGH POISON CENTER HAS BEEN PROVIDED SPECIFIC INFORMATION FOR USE IN MEDICAL EMERGENCIES INVOLVING THESE PRODUCTS. IN THE USA, CANADA & MEXICO, CALL TOLL FREE: 1-(888) 313-8954.

INTERNATIONAL: ALL EMERGENCIES, involving spill, leak, fire, exposure or accident, CALL 1-(703) 527-3887.
ALL MEDICAL EMERGENCIES, call your local Poison Control Center.

2. COMPOSITION/INFORMATION ON INGREDIENTS:

OSHA REGULATED COMPONENTS (present at a concentration > or = 1%):

Component	CAS #	%	PEL	TLV
Ethanol	64-17-5	67		1000 ppm
Methanol	67-56-1	3-4		200 ppm

The following components, present at a concentration > or = 0.1%, are listed as carcinogens or potential carcinogens by either the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or OSHA:

Component	CAS #	%	PEL	TLV
None - not applicable				



Division of Candle Corporation of America

MATERIAL SAFETY DATA SHEET

MSDS #0001

REVISED DATE: 5-31-2002

PRODUCT NAME: STERNO BRAND® CANNED HEAT™ COOKING FUEL

3. HAZARDS IDENTIFICATION:

Flammable solid, gelled ethanol, and it's pink in appearance.

PRECAUTIONARY LABELING: Caution flammable mixture. Keep away from children. Do not use near fire or flame. Contains 3.3% Methyl Alcohol.

EYE CONTACT: Eye irritant upon direct contact.

SKIN CONTACT: May cause skin irritation upon prolonged contact.

INGESTION: possible Alcoholic breathe, exhilaration followed by CNS depression, slurred speech, convulsions and hypoglycemia.

INHALATION: Burn product in a well ventilated area.

4. FIRST AID MEASURES:

EYE CONTACT: Flush eye with large amounts of warm water for 15 minutes. If irritation persists, contact poison center or doctor.

SKIN CONTACT: Remove and isolate contaminated clothing. Flush exposed area with warm water for 15 minutes. If irritation persists, contact poison center or doctor.

INGESTION: Drink sips of warm water or milk. If symptoms persist, contact poison center or doctor.

INHALATION: Seek fresh air and take slow deep breaths. Drink some sips of water. If coughing persists, contact poison center or doctor.

5. FIRE FIGHTING MEASURES:

FLASH POINT (METHOD): 54 degrees F or 12.1 degrees C (Tag closed cup)

AUTOIGNITION: @ 745 mm Hg: 845.6F (452 degrees C)

EXTINGUISHING MEDIA: CO₂, Foam, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: No known toxic combustion products or special fire fighting hazards. Self-contained breathing apparatus and protective clothing should be worn when fighting chemical fires. Do not use high pressure stream of water to extinguish burning material.

UNUSUAL FIRE AND EXPLOSION HAZARD: Closed cans exposed to flame and heat may erupt, scattering fragments.

6. ACCIDENTAL RELEASE MEASURES:

MSDS # 0001



Division of Candle Corporation of America

MATERIAL SAFETY DATA SHEET

MSDS #0001

REVISED DATE: 5-31-2002

PRODUCT NAME: STERNO BRAND® CANNED HEAT™ COOKING FUEL

SMALL SPILLS: Remove all sources of ignition. Provide adequate ventilation. Absorb on vermiculite, paper or other absorbent. Flush area with water.

7. HANDLING AND STORAGE:

STORAGE: Store in a cool dry place (40 - 120 degrees F or 4 - 49 degrees C). Provide adequate ventilation in area of use. Store away from sources of heat or open flame. Keep container closed when not in use.

HANDLING: Avoid contact with skin and eyes. Do not ingest. Place can in fuel holder or under chafer before lighting. Burn can in a level upright position. Keep away from combustibles (e.g. paper plates and napkins). Keep away from children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

GENERAL CONTROLS: Avoid contact with skin and eyes. Provide adequate ventilation.

PROTECTIVE CLOTHING: The use of eye protection (goggles) and rubber gloves is recommended.

RESPIRATORS: Not required.

SPECIAL PRECAUTIONS: Keep out of the reach of children.

PRECAUTIONARY LABELING: Caution flammable mixture. Keep away from children. Do not use near fire or flame. Contains 3.3% Methyl Alcohol.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE AND ODOR: Pink-red gel, alcohol odor
DENSITY: 0.85 g/cm³
SOLUBILITY IN WATER: Moderate
pH: 7.5-8.5 (as is)

VAPOR PRESSURE: N/A
VAPOR DENSITY: N/A
BOILING POINT: N/A
FREEZE/MELT POINT: N/A

10. STABILITY AND REACTIVITY:

GENERAL: This product is stable. Hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS: Heat, open flame, strong oxidizers.

HAZARDOUS DECOMPOSITION: None known.

11. TOXICOLOGICAL INFORMATION:

No information is available at this time.

MSDS # 0001



Division of Candle Corporation of America

MATERIAL SAFETY DATA SHEET

MSDS #0001

REVISED DATE: 5-31-2002

PRODUCT NAME: STERNO BRAND® CANNED HEAT™ COOKING FUEL

12. ECOLOGICAL INFORMATION:

No information is available at this time.

13. DISPOSAL CONSIDERATIONS:

Note: The purchaser is responsible for proper waste disposal of empty, partial, or full cans. Any disposal practice must be in compliance with local, state, and federal laws and regulations (contact local or state environmental agency for specific rules). Do not dump into sewers, any body of water, or onto the ground.

14. TRANSPORTATION:

DOT CLASSIFICATION: U.S. DOMESTIC: ST00391, ST03121, ST03136, ST03142, ST04006, ST04006ED, ST04008, ST04008ED, ST04008S, ST04037, ST04040, ST04041, ST04042, ST04043, ST04048, ST04049, ST04528, ST04528C - Consumer Commodity ORM-D Exception

INTERNATIONAL: ST04528, ST04528B - Flammable Solids, Organic, N.O.S. (Contains Ethanol), Class 4.1, UN 1325, PGIII

ST04006, ST04008, ST04008B, ST04008BZG, ST04008T, ST04043, ST04408, ST04408J - Dangerous Goods in Limited Quantity of Class 4.1, UN 1325, PG III; or, Flammable Solid, Organic, N.O.S., (Contains Ethanol), 4.1, UN1325, III, Limited Quantity

15. REGULATORY INFORMATION:

OSHA: This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1900.1200).

RCRA (40 CFR 261, Subpart D): The hazardous waste number for methanol is U154 indicating ignitability. This product is considered a hazardous waste based on flammability.

CLEAN WATER ACT: None of the OSHA regulated components in this product are Section 311 listed chemicals.

SARA: Sections 301-304 (Threshold Planning Quantity - TPQ) 40 CFR 355: No TPQ for any OSHA regulated component. Section 313 (Toxic chemical release reporting) 40 CFR 372: The following chemicals must be reported under SARA 313: Not applicable to any OSHA regulated component.

CERCLA: Section 102 (Reportable Quantity - RQ) 40 CFR 302: The RQ for Methyl Alcohol is 5000 lbs. Releases greater than or equal to this amount must be reported to the National Response Center (NRC) immediately: 800-424-8802.

16. OTHER INFORMATION:

MSDS REVISION INDICATORS: Revised Sections 1, 14, 16, and Header
REVISION DATE: May 31, 2002, Supersedes November 3, 2000

MSDS # 0001



Division of Candle Corporation of America

MATERIAL SAFETY DATA SHEET

MSDS #0001

REVISED DATE: 5-31-2002

PRODUCT NAME: STERNO BRAND® CANNED HEAT™ COOKING FUEL

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

LAST PAGE OF MSDS #0001



MATERIAL SAFETY DATA SHEET



1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: 4002120, 4002220 Tork Premium Foam Antibacterial Soap (E2 Rated)

Manufactured For: SCA Tissue North America
P.O. Box 2400
Neenah, WI 54957-2400

Phone: 1-866-SCA-TORK (1-866-722-8675)

Fax: 1-920-720-4595

24-Hour Emergency Contact:
CHEMTREC 1-800-424-9300

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients as defined by OSHA, 29 CFR 1910.1200: **NONE**

INGREDIENTS	CAS#	ACGIH-TLV	OSHA-PEL	LC ₅₀	LD ₅₀	%BY WT
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3. HAZARDS IDENTIFICATION

Potential Health Effects:	
Routes of Entry	Inhalation: N Skin: Y Eye: Y Ingestion: Y
Health Hazards	May cause eye and skin irritation, may cause stomach distress.
Signs/Systems of Overexposure	Prolonged skin contact may cause mild redness and swelling. Contact with eyes may cause irritation, experienced as discomfort or pain, excessive blinking and tear production, with marked excess redness and swelling. Corneal injury may occur. This product can be absorbed through the skin. Ingestion may cause gastrointestinal irritation with nausea, vomiting, and diarrhea.
Medical Conditions Aggravated by Exposure	Skin contact may aggravate an existing skin condition.

4. FIRST AID MEASURES

EYE CONTACT: Immediately rinse eyes with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Obtain medical attention if irritation persists.

SKIN CONTACT: Although this product is not expected to be irritating, sensitizing or cause allergic reaction when used as indicated, if symptoms do arise, rinse affected area with plenty of water until no evidence of the product remains. Obtain medical attention if irritation persists.

INHALATION: This is unlikely to occur due to the chemical properties of this product, however if a person becomes ill from over exposure, keep infected person warm and rested. If breathing becomes difficult or labored, obtain medical attention.

INGESTION: Treat symptomatically and supportively. Maintain airway and respiration. If vomiting occurs, keep head below hips to prevent aspiration. Dilute by rinsing the mouth and giving water or milk to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.



MATERIAL SAFETY DATA SHEET



5. FIRE FIGHTING MEASURES

Fire and Explosive Hazards: The fire hazard for this product has not been determined. The hazards of the components of with the most severe are: slight fire hazard when exposed to heat of flame.

Fire Fighting Media: Dry chemical, CO₂, water spray or regular foam.

Fire Fighting: Move container from area if you can do it with out risk. Apply cooling water to sides if containers that are exposed to flames until well after the fire is extinguish only if the flow can be stopped; use flooding amounts of water as fog, solid streams may ineffective. Avoid breathing vapors, keep upwind.

6. ACCIDENTAL RELEASE MEASURES

Contained small spills may be absorbed with non-reactive absorbent and placed in a container that is covered with labeled containers. Prevent large spills from entering waterways or confined areas. Contact emergency services and suppliers for advice.

7. HANDLING AND STORAGE

Avoid contact with incompatible substances and excessive heat. Observe all federal and local regulations when storing or disposing of the substance. Protect product from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Gloves: Not normally required

Eye protection: Not normally required

Respiratory Tract: Not normally required

Ventilation: Local: not required

Carcinogenic: Non-hazardous by WHIMS criteria

Other protective equipment: None required

Protective Work/Hygiene Practices: Follow labeling instructions

9. PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity: 1.080-1.100 @ 20°C

pH = 5.0 –5.5 @ 20°C

Appearance/Odor: Clear slightly yellow liquid with added fragrance

10. STABILITY AND REACTIVITY

It is incompatible with strong oxidizers and oxides of sulfur when heated to decomposition.

11. TOXICOLOGY INFORMATION

Currently there is no data available for this product.

12. ECOLOGICAL INFORMATION

Currently there is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Do not reuse empty containers. Discard empty containers in trash.



MATERIAL SAFETY DATA SHEET



14. TRANSPORTATION INFORMATION

DOT FLAMMABILITY CLASSIFICATION: Not applicable

EPA - SARA TITLE III SECTION 313: Not applicable - Consumer product

TSCA: All components of this product are listed or are exempted or excluded from listing on the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

15. REGULATORY INFORMATION

NFPA RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=1 FLAMMABILITY=0 REACTIVITY=0
HMIS RATINGS (Scale 0-4, where 4=severe hazard): HEALTH=1 FLAMMABILITY=0 REACTIVITY=0

16. OTHER INFORMATION

Product Sales Information: 1-886-SCA-TORK (1-866-722-8675)

MSDS Information: MSDS in compliance with ANSI Z400.1-1998-16- section MSDS format: 6/21/2004
Revised TC/Dial 08/09/2004 Dial Corporation Revision 4/19/2004, supersedes: 6/15/98, Revised 8/09/2004, TC, MSDS # Anti-226M-0, updated 6/07., rev. 0.01 update skin contact information.

N/A= Not Applicable

N.E.= Not Established

MSDS prepared by: Regulatory Compliance

Disclaimer: The information on the MSDS was obtained from sources that we believe are reliable. However, the information is provided without any warranty, expressed, or implied, regarding its correctness. Some information presented and conclusion drawn herein is from sources other than direct test data on the substance itself. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of any way connected with handling, storage, use or disposal of this product. If this product is used as a component in another product, this MSDS information is not applicable.





SAFETY DATA SHEET

WASH N WALK NO-RINSE FLOOR CLEANER

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : WASH N WALK NO-RINSE FLOOR CLEANER

Other means of identification : Not applicable

Recommended use : Floor Cleaner

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 1.56 %

Company : Ecolab Inc.
370 N. Wabasha Street
St. Paul, Minnesota USA 55102
1-800-352-5326

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

Issuing date : 11/04/2014

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

Eye irritation : Category 2B

Product AT USE DILUTION

Not a hazardous substance or mixture.

GHS Label element

Product AS SOLD

Signal Word : Warning

Hazard Statements : Causes eye irritation.

Precautionary Statements : **Prevention:**
Wash skin thoroughly after handling. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Response:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Product AT USE DILUTION

Precautionary Statements : **Prevention:**
Wash hands thoroughly after handling.
Response:
Get medical advice/ attention if you feel unwell.
Storage:
Store in accordance with local regulations.

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

SAFETY DATA SHEET

WASH N WALK NO-RINSE FLOOR CLEANER

Product AS SOLD

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Sodium Xylenesulfonate	1300-72-7	5 - 10
Propylene glycol	57-55-6	5 - 10
glycerin	56-81-5	1 - 5
Boric acid	10043-35-3	1 - 5
benzenesulfonic acid, dodecyl-, compd. with 2-aminoethanol (1:1)	26836-07-7	1 - 5
alcohol ethoxylate	68551-12-2	1 - 5
ethylenediamine tetraacetate	64-02-8	1 - 5
amines, coco alkyltrimethyl, n-oxides	61788-90-7	1 - 5
boric acid (h3bo3), compd. with 2-aminoethanol (1:1)	68586-07-2	1 - 5

Product AT USE DILUTION

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

Product AS SOLD

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

Protection of first-aiders : No special precautions are necessary for first aid responders.

Notes to physician : Treat symptomatically.

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

Product AT USE DILUTION

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Rinse with plenty of water.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Get medical attention if symptoms occur.

SECTION 5. FIRE-FIGHTING MEASURES

Product AS SOLD

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

Unsuitable extinguishing media : None known.

Specific hazards during fire : Not flammable or combustible.

SAFETY DATA SHEET

WASH N WALK NO-RINSE FLOOR CLEANER

fighting

- Hazardous combustion products : Decomposition products may include the following materials:
Carbon oxides
Nitrogen oxides (NOx)
Sulfur oxides
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Product AS SOLD

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Product AT USE DILUTION

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Product AS SOLD

- Advice on safe handling : Wash hands thoroughly after handling. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
- Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.
- Storage temperature : 5 °C to 35 °C

Product AT USE DILUTION

- Advice on safe handling : Wash hands after handling. For personal protection see section 8.

SAFETY DATA SHEET

WASH N WALK NO-RINSE FLOOR CLEANER

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Propylene glycol	57-55-6	TWA	10 mg/m ³	WEEL
glycerin	56-81-5	TWA	10 mg/m ³	ACGIH
		TWA (respirable fraction)	5 mg/m ³	OSHA Z1
Boric acid	10043-35-3	TWA (Inhalable fraction)	2 mg/m ³	ACGIH
		STEL (Inhalable fraction)	6 mg/m ³	ACGIH

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

Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

Product AT USE DILUTION

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

Personal protective equipment

Eye protection : No special protective equipment required.

Hand protection : No special protective equipment required.

Skin protection : No special protective equipment required.

Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: green	colorless

SAFETY DATA SHEET

WASH N WALK NO-RINSE FLOOR CLEANER

Odor	: Perfumes, fragrances	Perfumes, fragrances
pH	: 6.2 - 9.4, 100 %	7.0 - 8.0
Flash point	: Not applicable	
Odor Threshold	: No data available	
Melting point/freezing point	: No data available	
Initial boiling point and boiling range	: > 100 °C	
Evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapor pressure	: No data available	
Relative vapor density	: No data available	
Relative density	: 1.071	
Water solubility	: soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/water	: No data available	
Autoignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Molecular weight	: No data available	
VOC	: No data available	

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD	: Stable under normal conditions.
Chemical stability	
Possibility of hazardous reactions	: Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Conditions to avoid	: None known.
Incompatible materials	: None known.
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

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

SAFETY DATA SHEET

WASH N WALK NO-RINSE FLOOR CLEANER

Potential Health Effects

Product AS SOLD

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

Product AT USE DILUTION

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

Experience with human exposure

Product AS SOLD

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

Product AT USE DILUTION

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

Toxicity

Product AS SOLD

Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg
Acute inhalation toxicity	: No data available
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg/kg
Skin corrosion/irritation	: Mild skin irritation

SAFETY DATA SHEET

WASH N WALK NO-RINSE FLOOR CLEANER

Serious eye damage/eye irritation : Mild eye irritation
Respiratory or skin sensitization : No data available
Carcinogenicity : No data available
Reproductive effects : No data available
Germ cell mutagenicity : No data available
Teratogenicity : No data available
STOT-single exposure : No data available
STOT-repeated exposure : No data available
Aspiration toxicity : No data available

Ingredients

Acute inhalation toxicity : Propylene glycol
4 h LC50 Rat: > 158.5 mg/l

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD

Ecotoxicity

Environmental Effects : Harmful to aquatic life.

Product

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

Ingredients

Toxicity to fish : Propylene glycol
96 h LC50: > 10,000 mg/l

glycerin
96 h LC50 Fish: 855 mg/l

alcohol ethoxylate
96 h LC50 Fish: 1.5 mg/l

ethylenediamine tetraacetate
96 h LC50 Fish: 121 mg/l

amines, coco alkyldimethyl, n-oxides
96 h LC50 Fish: 1 mg/l

boric acid (h3bo3), compd. with 2-aminoethanol (1:1)
96 h LC50: 74 mg/l

Ingredients

Toxicity to daphnia and other aquatic invertebrates : Propylene glycol
48 h EC50: 18,340 mg/l

Ingredients

SAFETY DATA SHEET

WASH N WALK NO-RINSE FLOOR CLEANER

Toxicity to algae : Sodium Xylenesulfonate
96 h EC50: 230 mg/l

Propylene glycol
96 h EC50: 19,000 mg/l

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD

Disposal methods

: The product should not be allowed to enter drains, water courses or the soil.

Disposal considerations

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

Product AT USE DILUTION

Disposal methods

: Diluted product can be flushed to sanitary sewer.

Disposal considerations

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

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD

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

Land transport (DOT)

Not dangerous goods

Sea transport (IMDG/IMO)

Not dangerous goods

Product AT USE DILUTION

Not intended for transport.

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

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

SAFETY DATA SHEET

WASH N WALK NO-RINSE FLOOR CLEANER

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

- SARA 311/312 Hazards** : Acute Health Hazard
- SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

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

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

United States TSCA Inventory :
On TSCA Inventory

Canadian Domestic Substances List (DSL) :
This product contains one or several components listed in the Canadian NDCL.

Australia Inventory of Chemical Substances (AICS) :
not determined

New Zealand. Inventory of Chemical Substances :
not determined

Japan. ENCS - Existing and New Chemical Substances Inventory :
not determined

Japan. ISHL - Inventory of Chemical Substances (METI) :
not determined

Korea. Korean Existing Chemicals Inventory (KECI) :
not determined

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
not determined

China. Inventory of Existing Chemical Substances in China (IECSC) :
not determined

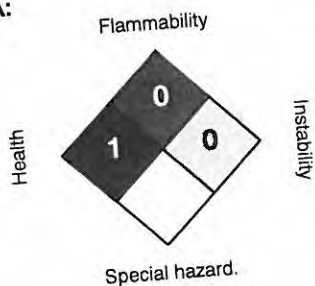
SECTION 16. OTHER INFORMATION

Product AS SOLD

SAFETY DATA SHEET

WASH N WALK NO-RINSE FLOOR CLEANER

NFPA:



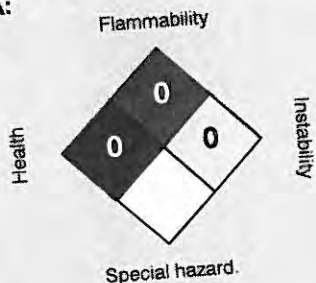
HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

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

Product AT USE DILUTION

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

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

Issuing date : 11/04/2014
Version : 1.2
Prepared by : Regulatory Affairs

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

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

SAFETY DATA SHEET



JET DRY

Section 1. Chemical product and company identification

Product name : JET DRY
Recommended use and restrictions : Rinse additive
Use only for the purpose on the product label.

Product dilution information : Up to 5.6 oz/100 gal in water

Supplier's information : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

Code : 914598-01

Date of issue : 22 Oct 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

GHS Classification : **Product AS SOLD**
: SERIOUS EYE DAMAGE/ EYE IRRITATION -
Category 2B

GHS label elements

Signal word : Warning

Hazard statements : Causes eye irritation.

Precautionary statements

Prevention : Wash hands thoroughly after handling.

Response : IF IN EYES: Rinse cautiously with water for
several minutes. Remove contact lenses, if
present and easy to do. Continue rinsing. If eye
irritation persists: Get medical attention.

Storage : No other specific measures identified.

Disposal : See section 13 for waste disposal information.

Other hazards : None known.

Product AT USE DILUTION

Not classified.

No signal word.

No known significant effects or critical
hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

No other specific measures identified.

See section 13 for waste disposal
information.

None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
oxirane, methyl-, polymer with oxirane	1 - 5	9003-11-6
alcohols, c10-16, ethoxylated	1 - 5	68002-97-1

Section 3. Composition/information on ingredients

Product AT USE DILUTION

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	No known effect after eye contact. Rinse with water for a few minutes.
Skin contact	: No known effect after skin contact. Rinse with water for a few minutes.	No known effect after skin contact. Rinse with water for a few minutes.
Inhalation	: No special measures required. Treat symptomatically.	No special measures required. Treat symptomatically.
Ingestion	: Get medical attention if symptoms occur.	Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing media	: Use water spray, fog or foam.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Specific fire-fighting methods	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

	Product AS SOLD	Product AT USE DILUTION
Personal precautions	: Use personal protective equipment as required.	Use personal protective equipment as required.
Environmental precautions	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Methods for cleaning up	: Use a water rinse for final clean-up.	Use a water rinse for final clean-up.

JET DRY

Section 7. Handling and storage

Handling

Product AS SOLD

- : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage

- : Keep out of reach of children. Keep container tightly closed.

Store between the following temperatures: 0 and 50°C

Product AT USE DILUTION
Wash thoroughly after handling.
Keep out of reach of children.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name

None.

Exposure limits

Appropriate engineering controls

Product AS SOLD

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

Personal protection

Eye protection

- : No protective equipment is needed under normal use conditions.

Hand protection

- : No protective equipment is needed under normal use conditions.

Skin protection

- : No protective equipment is needed under normal use conditions.

Respiratory protection

- : A respirator is not needed under normal and intended conditions of product use.

Hygiene measures

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Product AT USE DILUTION

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

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

A respirator is not needed under normal and intended conditions of product use.

Section 9. Physical and chemical properties

Physical state

Product AS SOLD

- : Liquid.

Color

- : Green [Dark]

Odor

- : Odorless

pH

- : 2.61 (100%)

Flash point

- : > 100°C

Product does not support combustion.

Explosion limits

- : Not available.

Flammability (solid, gas)

- : Not available.

Melting point

- : Not available.

Boiling point

- : Not available.

Evaporation rate (butyl acetate = 1)

- : Not available.

Vapor pressure

- : Not available.

Vapor density

- : Not available.

Relative density

- : 1.01 (Water = 1)

Product AT USE DILUTION

Liquid.

Clear

Odorless

7 to 8

> 100°C

JET DRY

Section 9. Physical and chemical properties

Solubility	: Not available.
Partition coefficient:	: Not available.
n-octanol/water	
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Odor threshold	: Not available.
Viscosity	: Kinematic (room temperature): 0 cm ² /s (0 cSt)

Section 10. Stability and reactivity

Product AS SOLD	
Stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Materials to avoid	: Not available.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Route of exposure	: Skin contact, Eye contact, Inhalation, Ingestion
-------------------	--

Symptoms

Eye contact	: Adverse symptoms may include the following: irritation watering redness
Skin contact	: No specific data.
Inhalation	: No specific data.
Ingestion	: No specific data.

Acute toxicity

Eye contact	: Causes eye irritation.
Skin contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.

Toxicity data

Product/ingredient name

oxirane, methyl-, polymer with oxirane

alcohols, c10-16, ethoxylated

LC50 Inhalation	Rat	0.147 mg/l
Dusts and mists		
LD50 Dermal	Rabbit	>2000 mg/kg
LD50 Oral	Rat	>2000 mg/kg
LC50 Inhalation	Rat	>50 mg/l
Dusts and mists		
LD50 Dermal	Rat	>2000 mg/kg
LD50 Oral	Rat	>1000 mg/kg

Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Chronic toxicity

JET DRY

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.

Section 12. Ecological information**Product AS SOLD**

Ecotoxicity : This material is toxic to aquatic life.

Aquatic and terrestrial toxicity**Product/ingredient name**

oxirane, methyl-, polymer with oxirane
alcohols, c10-16, ethoxylated

Result

Acute LC50 >100 mg/l
Acute EC50 >0.1 mg/l

Species

Fish
Daphnia

Exposure

96 hours
48 hours

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

Section 13. Disposal considerations

Disposal methods : **Product AS SOLD**
Diluted product can be flushed to sanitary sewer.
Discard empty container in trash.

Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification

Not regulated.

IMO/IMDG

IMO/IMDG Classification

Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information**Product AS SOLD****U.S. Federal regulations**

TSCA 8(b) inventory

: All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

SARA 313**Product name**

Form R - Reporting requirements

: No listed substance

California Prop. 65

: No listed substance

CAS number

Concentration

JET DRY

Section 16. Other information

Product AS SOLD
Hazardous Material
Information System (U.S.A.) :

Health	1
Flammability	0
Physical hazards	0

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

Health	1	0	0
		Flammability	
		Instability/Reactivity	
		Special	

Product AT USE DILUTION

Health	0
Flammability	0
Physical hazards	0

Health	0	0	0
		Flammability	
		Instability/Reactivity	
		Special	

Date of issue : 22 Oct 2013
Prepared by : Regulatory Affairs
1-800-352-5326

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.



SAFETY DATA SHEET

LIME-A-WAY

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : LIME-A-WAY

Other means of identification : not applicable

Recommended use : Delimer

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.8 % - 2.3 %

Company : Ecolab Inc.
370 N. Wabasha Street
St. Paul, Minnesota USA 55102
1-800-352-5326

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

Issuing date : 08/06/2014

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

Skin corrosion : Category 1A
Serious eye damage : Category 1

Product AT USE DILUTION

Skin corrosion : Category 1A
Serious eye damage : Category 1

GHS Label element

Product AS SOLD

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**
Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse.
Storage:

SAFETY DATA SHEET

LIME-A-WAY

Store locked up.

Disposal:

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

Product AT USE DILUTION

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: Causes severe skin burns and eye damage.

Precautionary Statements

Prevention:

Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse.

Storage:

Store locked up.

Disposal:

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

Other hazards

: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
uronium hydrogen sulphate	21351-39-3	10 - 30
Urea	57-13-6	1 - 5
oxirane, methyl-, polymer with oxirane	9003-11-6	0.1 - 1

Product AT USE DILUTION

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

Product AS SOLD

In case of eye contact

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

In case of skin contact

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

SAFETY DATA SHEET

LIME-A-WAY

- If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.

Product AT USE DILUTION

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

See toxicological information (Section 11)

SECTION 5. FIRE-FIGHTING MEASURES

Product AS SOLD

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:
Carbon oxides
nitrogen oxides (NOx)
Sulfur oxides
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Product AS SOLD

- Personal precautions, : Ensure adequate ventilation. Keep people away from and upwind of

SAFETY DATA SHEET

LIME-A-WAY

protective equipment and emergency procedures

spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

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

Methods and materials for containment and cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions

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

Methods and materials for containment and cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Product AS SOLD

Advice on safe handling

: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage

: Keep away from strong bases. Keep out of reach of children. Store in suitable labeled containers.

Storage temperature

: 0 °C to 50 °C

Product AT USE DILUTION

Advice on safe handling

: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage

: Keep away from strong bases. Keep out of reach of children. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

SAFETY DATA SHEET

LIME-A-WAY

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Urea	57-13-6	TWA	10 mg/m ³	WEEL

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

Personal protective equipment

Eye protection : Safety goggles
Face-shield

Hand protection : Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

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

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Product AT USE DILUTION

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

Personal protective equipment

Eye protection : Safety goggles
Face-shield

Hand protection : Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: clear, dark green	light blue
Odor	: odorless	odorless
pH	: 0.1 - 0.2, 100 %	0.9 - 1.8

SAFETY DATA SHEET

LIME-A-WAY

Flash point	: not applicable
Odor Threshold	: no data available
Melting point/freezing point	: no data available
Initial boiling point and boiling range	: 100 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapor pressure	: no data available
Relative vapor density	: no data available
Relative density	: 1.132 - 1.162
Water solubility	: soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: no data available
Molecular weight	: no data available
VOC	: no data available

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD

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

SECTION 11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects

SAFETY DATA SHEET

LIME-A-WAY

Product AS SOLD

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

Product AT USE DILUTION

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

Experience with human exposure

Product AS SOLD

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

Product AT USE DILUTION

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

Toxicity

Product AS SOLD

Acute oral toxicity	: no data available
Acute inhalation toxicity	: no data available
Acute dermal toxicity	: no data available
Skin corrosion/irritation	: no data available
Serious eye damage/eye irritation	: no data available
Respiratory or skin sensitization	: no data available
Carcinogenicity	: no data available
Reproductive effects	: no data available

SAFETY DATA SHEET

LIME-A-WAY

Germ cell mutagenicity : no data available

Teratogenicity : no data available

STOT-single exposure : no data available

STOT-repeated exposure : no data available

Aspiration toxicity : no data available

Ingredients

Acute oral toxicity : uronium hydrogen sulphate
LD50 rat: > 2,000 mg/kg

Urea
LD50 rat: 8,471 mg/kg

Ingredients

Acute inhalation toxicity : Urea
4 h LC50 rat: > 2.71 mg/l

oxirane, methyl-, polymer with oxirane
4 h LC50 rat: 0.147 mg/l

Ingredients

Acute dermal toxicity : uronium hydrogen sulphate
LD50 rabbit: > 2,000 mg/kg

Urea
LD50 rat: 8,200 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

Product

Toxicity to fish : no data available

Toxicity to daphnia and other
aquatic invertebrates : no data available

Toxicity to algae : no data available

Ingredients

Toxicity to fish : uronium hydrogen sulphate
96 h LC50 Fish: > 6,810 mg/l

Urea
96 h LC50 Fish: 127.9 mg/l

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

Persistence and degradability

no data available

Bioaccumulative potential

SAFETY DATA SHEET

LIME-A-WAY

no data available

Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD

Disposal methods

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

Disposal considerations

: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

RCRA - Resource
Conservation and Recovery
Authorization Act Hazardous
waste

: D002 (Corrosive)

Product AT USE DILUTION

Disposal methods

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

Disposal considerations

: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD

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

Land transport (DOT)

UN number

: 3265

Description of the goods

: Corrosive liquid, acidic, organic, n.o.s.
(uronium hydrogen sulphate)

Class

: 8

Packing group

: II

Environmentally hazardous

: no

Sea transport (IMDG/IMO)

UN number

: 3265

Description of the goods

: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
(uronium hydrogen sulphate)

Class

: 8

Packing group

: II

Marine pollutant

: no

Product AT USE DILUTION

SAFETY DATA SHEET

LIME-A-WAY

Not intended for transport.

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

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

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

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

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

1907/2006 (EU) :
not determined

United States TSCA Inventory :
On TSCA Inventory

Canadian Domestic Substances List (DSL) :
All components of this product are on the Canadian DSL.

Australia Inventory of Chemical Substances (AICS) :
not determined

New Zealand. Inventory of Chemical Substances :
On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory :
not determined

Japan. ISHL - Inventory of Chemical Substances (METI) :
not determined

Korea. Korean Existing Chemicals Inventory (KECI) :
not determined

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
not determined

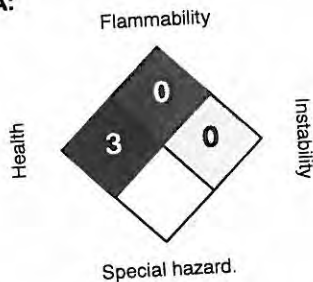
China. Inventory of Existing Chemical Substances in China (IECSC) :
not determined

SAFETY DATA SHEET

LIME-A-WAY

SECTION 16. OTHER INFORMATION

Product AS SOLD NFPA:

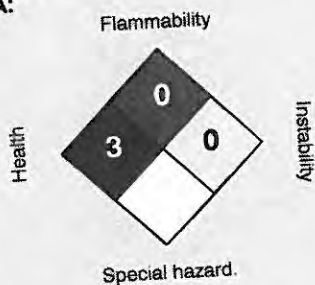


HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

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

Product AT USE DILUTION NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

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

Issuing date : 08/06/2014
Version : 1.0
Prepared by : Regulatory Affairs

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

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



SAFETY DATA SHEET

DISH MACHINE DETERGENT ENCAPSULATED POWDER

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DISH MACHINE DETERGENT ENCAPSULATED POWDER

Other means of identification : Not applicable

Recommended use : Machine Warewashing Detergent

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : No dilution information provided.

Company : SSDC Division *ecolab*
Kay Chemical Company
4050 Corporate Dr., #100
Grapevine, Texas USA 76051-2326
1-800-532-7732 (Customer Service)

Emergency telephone : 1-800-391-1504

Issuing date : 12/18/2014

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion : Category 1A
Serious eye damage : Category 1

GHS Label element

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**
Do not breathe dust or mist. Wash skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection. Mixing this product with acid or ammonia releases chlorine gas.
Response:
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse.
Storage:
Store locked up.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

SAFETY DATA SHEET

DISH MACHINE DETERGENT ENCAPSULATED POWDER

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
sodium hydroxide	1310-73-2	10 - 30
Sodium dichloro-s-triazinetriene dihydrate	51580-86-0	10 - 30
sodium metasilicate	6834-92-0	5 - 10

SECTION 4. FIRST AID MEASURES

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:
Carbon oxides
Nitrogen oxides (NO_x)
Sulfur oxides
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing : Fire residues and contaminated fire extinguishing water must be

SAFETY DATA SHEET

DISH MACHINE DETERGENT ENCAPSULATED POWDER

methods

disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,
protective equipment and
emergency procedures

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

Environmental precautions

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

Methods and materials for
containment and cleaning up

: Sweep up and shovel into suitable containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling

: Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.

Conditions for safe storage

: Keep out of reach of children. Store in suitable labeled containers.

Storage temperature

: 0 °C to 50 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
sodium hydroxide	1310-73-2	Ceiling	2 mg/m ³	ACGIH
		Ceiling	2 mg/m ³	NIOSH REL
		TWA	2 mg/m ³	OSHA Z1

Engineering measures

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

Personal protective equipment

Eye protection

: Wear eye protection/ face protection.

Hand protection

: Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection

: Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

Respiratory protection

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

Hygiene measures

: Handle in accordance with good industrial hygiene and safety

SAFETY DATA SHEET

DISH MACHINE DETERGENT ENCAPSULATED POWDER

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: powder
Color	: white
Odor	: odorless
pH	: 11.6, 1 %
Flash point	: Not applicable
Odor Threshold	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: No data available
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: No data available
VOC	: No data available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Mixing this product with acid or ammonia releases chlorine gas.
Conditions to avoid	: None known.
Incompatible materials	: Aluminum Lead Zinc

SAFETY DATA SHEET

DISH MACHINE DETERGENT ENCAPSULATED POWDER

Hazardous decomposition products : Strong acids
: Decomposition products may include the following materials:
Carbon oxides
Nitrogen oxides (NOx)
Sulfur oxides
Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects

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

Experience with human exposure

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

Toxicity

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

Ingredients

SAFETY DATA SHEET

DISH MACHINE DETERGENT ENCAPSULATED POWDER

Acute dermal toxicity : Sodium dichloro-s-triazinetrione dihydrate
LD50 Rat: > 5,000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : Toxic to aquatic life.

Product

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae : No data available

Ingredients

Toxicity to fish : sodium metasilicate
96 h LC50 Fish: 210 mg/l

Ingredients

Toxicity to daphnia and other aquatic invertebrates : sodium hydroxide
48 h EC50: 40 mg/l

Sodium dichloro-s-triazinetrione dihydrate
48 h EC50 Daphnia : 0.196 mg/l

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

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

Land transport (DOT)

UN number : 1759

Description of the goods : Corrosive solids, n.o.s.

SAFETY DATA SHEET

DISH MACHINE DETERGENT ENCAPSULATED POWDER

(sodium hydroxide)

Class : 8
Packing group : II
Environmentally hazardous : no

Sea transport (IMDG/IMO)
UN number : 1759
Description of the goods : CORROSIVE SOLID, N.O.S.
(sodium hydroxide)

Class : 8
Packing group : II
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium hydroxide	1310-73-2	1000	10000

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

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

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

United States TSCA Inventory :
On TSCA Inventory

Canadian Domestic Substances List (DSL) :
All components of this product are on the Canadian DSL.

Australia Inventory of Chemical Substances (AICS) :
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemical Substances :
On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory :
On the inventory, or in compliance with the inventory

Japan. ISHL - Inventory of Chemical Substances (METI) :
On the inventory, or in compliance with the inventory

SAFETY DATA SHEET

DISH MACHINE DETERGENT ENCAPSULATED POWDER

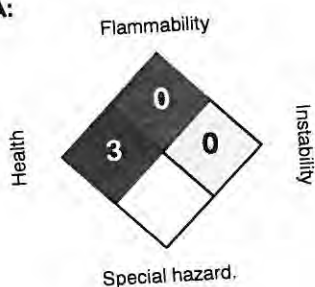
Korea. Korean Existing Chemicals Inventory (KECI) :
On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances in China (IECSC) :
On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

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

Issuing date : 12/18/2014
Version : 1.0
Prepared by : Regulatory Affairs

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

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

SAFETY DATA SHEET



KEYSTONE HIGH TEMP GRILL CLEANER

Section 1. Chemical product and company identification

Product name : KEYSTONE HIGH TEMP GRILL CLEANER

Recommended use and restrictions : Grill Cleaner

Use only for the purpose on the product label.

Product dilution information : Not applicable

Supplier's information : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

Code : 910312-06

Date of issue : 25 Oct 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

GHS Classification : **Product AS SOLD**
: SERIOUS EYE DAMAGE/ EYE IRRITATION -
Category 2B

GHS label elements

Signal word : Warning

Hazard statements : Causes eye irritation.

Precautionary statements

Prevention : Wash hands thoroughly after handling.

Response : IF IN EYES: Rinse cautiously with water for
several minutes. Remove contact lenses, if
present and easy to do. Continue rinsing. If eye
irritation persists: Get medical attention.

Storage : No other specific measures identified.

Disposal : See section 13 for waste disposal information.

Other hazards : None known.

Product AT USE DILUTION

Product is sold ready to use.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients

GLYCERIN
POTASSIUM CARBONATE

Concentration Range (%)

>50
5 - 20

CAS number

56-81-5
584-08-7

KEYSTONE HIGH TEMP GRILL CLEANER

Section 3. Composition/information on ingredients

Product AT USE DILUTION

Hazardous ingredients

Concentration Range (%)

CAS number

Product is sold ready to use.

Section 4. First aid measures

Product AS SOLD		Product AT USE DILUTION
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.	Product is sold ready to use.
Skin contact	: No known effect after skin contact. Rinse with water for a few minutes.	
Inhalation	: No special measures required. Treat symptomatically.	
Ingestion	: Get medical attention if symptoms occur.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD	
Suitable fire extinguishing media	: Use water spray, fog or foam.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Specific fire-fighting methods	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Product AS SOLD		Product AT USE DILUTION
Personal precautions	: Use personal protective equipment as required.	Product is sold ready to use.
Environmental precautions	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.	
Methods for cleaning up	: Use a water rinse for final clean-up.	

KEYSTONE HIGH TEMP GRILL CLEANER

Section 7. Handling and storage

Handling

Product AS SOLD

- : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage

- : Keep out of reach of children. Keep container tightly closed.

Store between the following temperatures: 0 and 50°C

Product AT USE DILUTION
Product is sold ready to use.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name

GLYCERIN

Exposure limits

OSHA PEL (United States, 6/2010).

TWA: 5 mg/m³ 8 hours. Form: Respirable fraction

TWA: 15 mg/m³ 8 hours. Form: Total dust

ACGIH TLV (United States, 3/2012).

TWA: 10 mg/m³ 8 hours.

Appropriate engineering controls

Product AS SOLD

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

Personal protection

Eye protection

- : No protective equipment is needed under normal use conditions.

Hand protection

- : No protective equipment is needed under normal use conditions.

Skin protection

- : No protective equipment is needed under normal use conditions.

Respiratory protection

- : A respirator is not needed under normal and intended conditions of product use.

Hygiene measures

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Product AT USE DILUTION
Product is sold ready to use.

Section 9. Physical and chemical properties

Physical state

- : Liquid.

Color

- : Yellow [Light]

Odor

- : Odorless

pH

- : 11.5 (100%)

Flash point

- : > 100°C

Explosion limits

- : Not available.

Flammability (solid, gas)

- : Not available.

Melting point

- : Not available.

Boiling point

- : Not available.

Evaporation rate (butyl acetate = 1)

- : Not available.

Product AT USE DILUTION
Product is sold ready to use.

KEYSTONE HIGH TEMP GRILL CLEANER

Section 9. Physical and chemical properties

Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1.251 (Water = 1)
Solubility	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Odor threshold	: Not available.
Viscosity	: Kinematic (room temperature): 0 cm ² /s (0 cSt)

Section 10. Stability and reactivity

Product AS SOLD	
Stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Materials to avoid	: Reactive or incompatible with the following materials: acids.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Route of exposure	: Skin contact, Eye contact, Inhalation, Ingestion
-------------------	--

Symptoms

Eye contact

: Adverse symptoms may include the following:
irritation
watering
redness

Skin contact

Inhalation

Ingestion

: No specific data.
: No specific data.
: No specific data.

Acute toxicity

Eye contact

Skin contact

Inhalation

Ingestion

: Causes eye irritation.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.
: No known significant effects or critical hazards.

Toxicity data

Product/ingredient name
glycerin

LC50 Inhalation	Rat	>2.75 mg/l
Dusts and mists		
LD50 Dermal	Rabbit	23000 mg/kg
LD50 Oral	Rat	18300 mg/kg
LC50 Inhalation	Rat	>5.26 mg/l
Dusts and mists		
LD50 Dermal	Rabbit	>2000 mg/kg
LD50 Oral	Rat	1870 mg/kg

potassium carbonate

Product AT USE DILUTION

Product is sold ready to use.

Chronic toxicity

KEYSTONE-HIGH TEMP GRILL CLEANER**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.

Section 12. Ecological information**Product AS SOLD****Ecotoxicity**

: No known significant effects or critical hazards.

Aquatic and terrestrial toxicity**Result****Species****Exposure****Product/ingredient name**

Acute LC50 855 mg/l

Fish

96 hours

Acute LC50 230 mg/l

Fish

96 hours

glycerin

potassium carbonate

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations**Product AS SOLD****Disposal methods**

: Diluted product can be flushed to sanitary sewer.
 Discard empty container in trash.

Product AT USE DILUTION
 Product is sold ready to use.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT**DOT Classification**

Not regulated.

IMO/IMDG**IMO/IMDG Classification**

Not regulated.

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information**Product AS SOLD****U.S. Federal regulations****TSCA 8(b) inventory**

: All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance**SARA 302/304 emergency planning and notification:** No listed substance**SARA 313****Form R - Reporting requirements****Product name**

: No listed substance

California Prop. 65

: No listed substance

CAS number**Concentration**

KEYSTONE HIGH TEMP GRILL CLEANER

Section 16. Other information

Product AS SOLD

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

Health	1
Flammability	0
Physical hazards	0

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

Health	1	0	0	Flammability
				Instability/Reactivity
				Special

Date of issue : 25 Oct 2013
 Prepared by : Regulatory Affairs
 1-800-352-5326

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

SAFETY DATA SHEET

ECOLAB®

KEYSTONE SATIN SHINE STAINLESS STEEL CLEANER & POLISH AEROSOL

Section 1. Chemical product and company identification

Product name : KEYSTONE SATIN SHINE STAINLESS STEEL CLEANER & POLISH AEROSOL
Recommended use and restrictions : Metal Cleaner

Use only for the purpose on the product label.

Product dilution information : Not applicable

Supplier's information : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

Code : 913770**Date of issue** : 18 Feb 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

GHS Classification : **Product AS SOLD**
FLAMMABLE AEROSOLS. - Category 2
AQUATIC TOXICITY (ACUTE) - Category 3
AQUATIC TOXICITY (CHRONIC) - Category 3

GHS label elements

Signal word : Warning**Symbol** :

Hazard statements : Flammable aerosol.
Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention : Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Avoid release to the environment.

Response : Get medical attention if symptoms appear.

Storage : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Disposal : See section 13 for waste disposal information.

Other hazards : None known.

Product AT USE DILUTION

Product is sold ready to use.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
white mineral oil, petroleum	5 - 20	8042-47-5
BUTANE	5 - 20	106-97-8
distillates (petroleum), hydrotreated light	5 - 20	64742-47-8
PROPANE	5 - 20	74-98-6

Product AT USE DILUTION

Hazardous ingredients	Concentration Range (%)	CAS number
-----------------------	-------------------------	------------

Product is sold ready to use.

Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: No known effect after eye contact. Rinse with water for a few minutes.	Product is sold ready to use.
Skin contact	: No known effect after skin contact. Rinse with water for a few minutes.	
Inhalation	: No special measures required. Treat symptomatically.	
Ingestion	: Get medical attention if symptoms occur.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing media	: Use water spray, fog or foam.
Specific hazards arising from the chemical	: Flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Specific fire-fighting methods	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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	Product AS SOLD : Use personal protective equipment as required.
Environmental precautions	: Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
Methods for cleaning up	: Use a water rinse for final clean-up.

Product AT USE DILUTION
Product is sold ready to use.

Section 7. Handling and storage

Handling	Product AS SOLD : Store and use away from heat, sparks, open flame or any other ignition source. Liquid and vapor under pressure. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	: Keep out of reach of children. Keep container tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. Avoid all possible sources of ignition (spark or flame). Do not puncture or incinerate container. Store between the following temperatures: 5 and 45°C

Product AT USE DILUTION
Product is sold ready to use.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
white mineral oil, petroleum	ACGIH TLV (United States, 3/2012). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 6/2009). TWA: 5 mg/m ³ 10 hours. Form: Mist OSHA PEL (United States, 6/2010). TWA: 5 mg/m ³ 8 hours.
BUTANE	ACGIH TLV (United States, 3/2012). TWA: 1000 ppm 8 hours. NIOSH REL (United States, 6/2009). TWA: 800 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours.
distillates (petroleum), hydrotreated light	ACGIH TLV (United States, 3/2012). Absorbed through skin. TWA: 200 mg/m ³ , (as total hydrocarbon vapor) 8 hours.
PROPANE	ACGIH TLV (United States, 3/2012). TWA: 1000 ppm 8 hours. OSHA PEL (United States, 6/2010). TWA: 1800 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours. NIOSH REL (United States, 6/2009). TWA: 1000 ppm 10 hours. TWA: 1800 mg/m ³ 10 hours.

Section 8. Exposure controls/personal protection

	Product AS SOLD	Product AT USE DILUTION
Appropriate engineering controls	: Use only with adequate ventilation. 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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.	Product is sold ready to use.
Personal protection		
Eye protection	: No protective equipment is needed under normal use conditions.	
Hand protection	: No protective equipment is needed under normal use conditions.	
Skin protection	: No protective equipment is needed under normal use conditions.	
Respiratory protection	: A respirator is not needed under normal and intended conditions of product use.	
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.	

Section 9. Physical and chemical properties

	Product AS SOLD	Product AT USE DILUTION
Physical state	: Aerosol	Product is sold ready to use.
Color	: White	
Odor	: citrus	
pH	: Not available.	
Flash point	: Not applicable	
Explosion limits	: Lower: 1.8% Upper: 9.7%	
Flammability (solid, gas)	: Not available.	
Melting point	: Not available.	
Boiling point	: >100°C (>212°F)	
Evaporation rate (butyl acetate = 1)	: Not available.	
Vapor pressure	: Not available.	
Vapor density	: Not available.	
Relative density	: 0.929 to 0.949 (Water = 1)	
Solubility	: Not available.	
Partition coefficient: n-octanol/water	: Not available.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Corrosion threshold	: Not available.	
Viscosity	: Not available.	

Section 9. Physical and chemical properties

Aerosol product

Type of aerosol : Spray
 Heat of combustion : 0.00001009 kJ/g
 Ignition distance : Not available.
 Flame height : Not available.
 Flame duration : Not available.

Section 10. Stability and reactivity

Product AS SOLD

Stability : The product is stable.
 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
 Conditions to avoid : Avoid all possible sources of ignition (spark or flame).
 Materials to avoid : Not available.
 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion

Product AS SOLD

Symptoms

Eye contact : No specific data.
 Skin contact : No specific data.
 Inhalation : Adverse symptoms may include the following:
 respiratory tract irritation
 coughing
 Ingestion : No specific data.

Acute toxicity

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

Product AT USE DILUTION

Product is sold ready to use.

Toxicity data

Product/ingredient name	Result	Species	Dose
white mineral oil, petroleum	LC50 Inhalation Vapor	Rat	>5.2 mg/l
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	>5000 mg/kg
butane	LC50 Inhalation Gas.	Rat	280000 ppm
distillates (petroleum), hydrotreated light	LC50 Inhalation Dusts and mists	Rat	>5.68 mg/l
	LD50 Dermal	Rabbit	>2000 mg/kg
	LD50 Oral	Rat	>5000 mg/kg

Chronic toxicity

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

KEYSTONE SATIN SHINE STAINLESS STEEL CLEANER & POLISH AEROSOL

Section 12. Ecological information

Product AS SOLD

Ecotoxicity

: This material is harmful to aquatic life with long lasting effects.

aquatic and terrestrial toxicity

Product/ingredient name

white mineral oil, petroleum

butane

distillates (petroleum), hydrotreated light

Other adverse effects

: No known significant effects or critical hazards.

Result

Acute LC50 <100 mg/l

Acute LC50 22.03 mg/l

Chronic LC50 >1 mg/l

Species

Fish

Fish

Fish

Exposure

96 hours

96 hours

96 hours

Section 13. Disposal considerations

Disposal methods

Product AS SOLD

: Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not puncture or incinerate container. Discard empty container in trash.

RCRA classification : Unused product is D001 (Ignitable)

Product AT USE DILUTION

Product is sold ready to use.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification

UN1950

DOT Proper shipping name

Aerosols, flammable, n.o.s.

Class

2.1

Packing group

-

IMO/IMDG

IMO/IMDG Classification

UN1950

IMO/IMDG Proper shipping name

AEROSOLS

Class

2.1

Packing group

-

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) inventory

: All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

SARA 313Product name

Form R - Reporting requirements

: No listed substance

CAS numberConcentration

Section 15. Regulatory information

California Prop. 65

: No listed substance

Section 16. Other information

Product AS SOLD

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

Health	0
Flammability	2
Physical hazards	0

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



NFPA Aerosol Level

: Level 1

Date of issue

: 18 Feb 2013

Prepared by

: Regulatory Affairs
1-800-352-5326

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.



SAFETY DATA SHEET

PATHWAYS DRAIN TREATMENT

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PATHWAYS DRAIN TREATMENT

Other means of identification : Not applicable

Recommended use : Drain Cleaner

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : 0.0075 % - 0.03 %

Company : Ecolab Inc.
370 N. Wabasha Street
St. Paul, Minnesota USA 55102
1-800-352-5326

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

Issuing date : 03/13/2015

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

Not a hazardous substance or mixture.

Product AT USE DILUTION

Not a hazardous substance or mixture.

GHS Label element

Product AS SOLD

Precautionary Statements : **Prevention:**
Wash hands thoroughly after handling.
Response:
Get medical advice/ attention if you feel unwell.
Storage:
Store in accordance with local regulations.

Product AT USE DILUTION

Precautionary Statements : **Prevention:**
Wash hands thoroughly after handling.
Response:
Get medical advice/ attention if you feel unwell.
Storage:
Store in accordance with local regulations.

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD

Pure substance/mixture : Mixture

Chemical Name
Propylene glycol

CAS-No.
57-55-6

Concentration (%)
1 - 5

SAFETY DATA SHEET

PATHWAYS DRAIN TREATMENT

Product AT USE DILUTION

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

Product AS SOLD

- In case of eye contact : Rinse with plenty of water.
- In case of skin contact : Rinse with plenty of water.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.
- Protection of first-aiders : No special precautions are necessary for first aid responders.
- Notes to physician : No specific measures identified.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

Product AT USE DILUTION

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

SECTION 5. FIRE-FIGHTING MEASURES

Product AS SOLD

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:
Carbon oxides
Nitrogen oxides (NOx)
Sulfur oxides
Oxides of phosphorus
- Special protective equipment for fire-fighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES

SAFETY DATA SHEET

PATHWAYS DRAIN TREATMENT

Product AS SOLD

Personal precautions,
protective equipment and
emergency procedures

: Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: No special environmental precautions required.

Methods and materials for
containment and cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Product AT USE DILUTION

Personal precautions,
protective equipment and
emergency procedures

: Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: No special environmental precautions required.

Methods and materials for
containment and cleaning up

: Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Product AS SOLD

Advice on safe handling

: Wash hands after handling. For personal protection see section 8.

Conditions for safe storage

: Keep out of reach of children. Store in suitable labeled containers.

Storage temperature

: 0 °C to 50 °C

Product AT USE DILUTION

Advice on safe handling

: Wash hands after handling. For personal protection see section 8.

Conditions for safe storage

: Keep out of reach of children. Store in suitable labeled containers.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product AS SOLD

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
Propylene glycol	57-55-6	TWA	10 mg/m ³	WEEL

Engineering measures

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

Personal protective equipment

SAFETY DATA SHEET

PATHWAYS DRAIN TREATMENT

Eye protection	: No special protective equipment required.
Hand protection	: No special protective equipment required.
Skin protection	: No special protective equipment required.
Respiratory protection	: No personal respiratory protective equipment normally required.
Hygiene measures	: Wash hands before breaks and immediately after handling the product.

Product AT USE DILUTION

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

Personal protective equipment

Eye protection	: No special protective equipment required.
Hand protection	: No special protective equipment required.
Skin protection	: No special protective equipment required.
Respiratory protection	: No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: light green	colorless
Odor	: citrus	odorless
pH	: 7.5, 100 %	7.22
Flash point	: Not applicable	
Odor Threshold	: No data available	
Melting point/freezing point	: No data available	
Initial boiling point and boiling range	: No data available	
Evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapor pressure	: No data available	
Relative vapor density	: No data available	
Relative density	: 1.0	
Water solubility	: soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/water	: No data available	
Autoignition temperature	: No data available	

SAFETY DATA SHEET

PATHWAYS DRAIN TREATMENT

Thermal decomposition	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Molecular weight	: No data available
VOC	: No data available

SECTION 10. STABILITY AND REACTIVITY

Product AS SOLD

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

SECTION 11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects

Product AS SOLD

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

Product AT USE DILUTION

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

Experience with human exposure

SAFETY DATA SHEET

PATHWAYS DRAIN TREATMENT

Product AS SOLD

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

Product AT USE DILUTION

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

Toxicity

Product AS SOLD

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

Ingredients

- Acute inhalation toxicity : Propylene glycol
4 h LC50 Rat: > 158.5 mg/l

SECTION 12. ECOLOGICAL INFORMATION

Product AS SOLD

Ecotoxicity

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

Product

- Toxicity to fish : No data available
Toxicity to daphnia and other : No data available

SAFETY DATA SHEET

PATHWAYS DRAIN TREATMENT

aquatic invertebrates

Toxicity to algae : No data available

Ingredients

Toxicity to fish : Propylene glycol
96 h LC50: > 10,000 mg/l

Ingredients

Toxicity to daphnia and other aquatic invertebrates : Propylene glycol
48 h EC50: 18,340 mg/l

Ingredients

Toxicity to algae : Propylene glycol
96 h EC50: 19,000 mg/l

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product AS SOLD

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

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

Product AT USE DILUTION

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

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

SECTION 14. TRANSPORT INFORMATION

Product AS SOLD

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

Land transport (DOT)

Not dangerous goods

Sea transport (IMDG/IMO)

Not dangerous goods

Product AT USE DILUTION

Not intended for transport.

SAFETY DATA SHEET

PATHWAYS DRAIN TREATMENT

SECTION 15. REGULATORY INFORMATION

Product AS SOLD

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

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

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : No SARA Hazards

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.

California Prop 65

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

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

United States TSCA Inventory :
On TSCA Inventory

Canadian Domestic Substances List (DSL) :
All components of this product are on the Canadian DSL.

Australia Inventory of Chemical Substances (AICS) :
not determined

New Zealand. Inventory of Chemical Substances :
not determined

Japan. ENCS - Existing and New Chemical Substances Inventory :
not determined

Japan. ISHL - Inventory of Chemical Substances (METI) :
not determined

Korea. Korean Existing Chemicals Inventory (KECI) :
not determined

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
On the inventory, or in compliance with the inventory

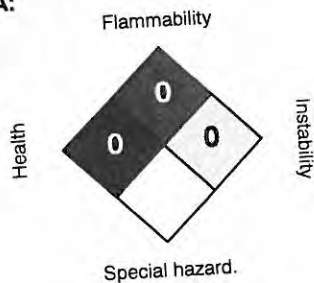
China. Inventory of Existing Chemical Substances in China (IECSC) :
On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

SAFETY DATA SHEET

PATHWAYS DRAIN TREATMENT

Product AS SOLD NFPA:

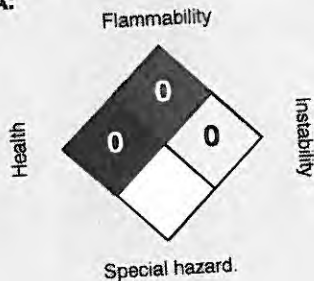


HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

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

Product AT USE DILUTION NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

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

Issuing date
Version
Prepared by

: 03/13/2015
: 1.0
: Regulatory Affairs

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

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

SAFETY DATA SHEET

Easy-Off® Fume Free Oven Cleaner Aerosol - Lemon scent



HEALTH • HYGIENE • HOME

1. Product and company identification

Product name : Easy-Off® Fume Free Oven Cleaner Aerosol - Lemon scent

Distributed by : Reckitt Benckiser LLC.
Morris Corporate Center IV
399 Interpace Parkway (P.O. Box 225)
Parsippany, New Jersey 07054-0225
+1 973 404 2600

Emergency telephone number (Medical) : 1-800-338-6167

Emergency telephone number (Transport) : 1-800-424-9300 (U.S. & Canada) CHEMTREC
Outside U.S. and Canada (North America), call Chemtrec:703-527-3887

Website: : <http://www.rbnainfo.com>

Product use : Oven Cleaner
Consumer use

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure, in accordance with the requirements of USDOL Occupational Safety and Health Administration.

This SDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulations, and shown in Section 15 of this SDS.

SDS # : D0059366 v6.0

Formulation #: : 363915 v6.0

UPC Code / Sizes : 14.5 oz., 16 oz.; 24 oz. Aerosol Cans

2. Hazards identification

Classification of the substance or mixture : FLAMMABLE AEROSOLS - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1

GHS label elements

Hazard pictograms :



Signal word : Warning

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2. Hazards identification

Hazard statements	: Flammable aerosol. Pressurized container: may burst if heated. Causes serious eye irritation. May cause an allergic skin reaction.
<u>Precautionary statements</u>	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurized container: Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention/advice. 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/advice.
Storage	: Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: None known.
Hazards not otherwise classified	: None known.

3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
2-(2-butoxyethoxy)ethanol	5 - 10	112-34-5
potassium carbonate	2.5 - 5	584-08-7
2-aminoethanol	2.5 - 5	141-43-5
isobutane	2.5 - 5	75-28-5
d-Limonene	0.1 - 1	5989-27-5

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.

4. First aid measures

Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
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1. First aid measures

- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Wash with plenty of 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : 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. Get medical attention if adverse health effects persist or are severe. 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

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

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4. First aid measures

- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

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** : Flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- 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.

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. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing 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).

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6. Accidental release measures

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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). 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.

7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

- Conditions for safe storage, including any incompatibilities** : Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Control

Occupational exposure limits

Ingredient name	Exposure limits
2-(2-butoxyethoxy)ethanol	ACGIH TLV (United States, 6/2013). TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor
2-aminoethanol	ACGIH TLV (United States, 6/2013). TWA: 3 ppm 8 hours. TWA: 7.5 mg/m ³ 8 hours. STEL: 6 ppm 15 minutes. STEL: 15 mg/m ³ 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 3 ppm 8 hours. TWA: 8 mg/m ³ 8 hours.

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8. Exposure controls/personal protection

isobutane

STEL: 6 ppm 15 minutes.
 STEL: 15 mg/m³ 15 minutes.
NIOSH REL (United States, 10/2013).
 TWA: 3 ppm 10 hours.
 TWA: 8 mg/m³ 10 hours.
 STEL: 6 ppm 15 minutes.
 STEL: 15 mg/m³ 15 minutes.
OSHA PEL (United States, 2/2013).
 TWA: 3 ppm 8 hours.
 TWA: 6 mg/m³ 8 hours.

NIOSH REL (United States, 10/2013).
 TWA: 800 ppm 10 hours.
 TWA: 1900 mg/m³ 10 hours.
ACGIH TLV (United States, 6/2013).
 STEL: 1000 ppm 15 minutes.

Appropriate engineering controls : Use only with adequate ventilation. 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. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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. Contaminated work clothing should not be allowed out of the workplace. 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.

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.

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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Product Registration: Product is compliant with CCCR regulatory guidelines; a specific registration is not required for this product.

Canada - CEPA - High Priority Chemicals as Identified by DSL Categorization

Isobutane 75-28-5 Batch 4, published November 17, 2007

Canada - WHMIS - Ingredient Disclosure List

Diethylene glycol monobutyl ether	112-34-5	1 %
Monoethanolamine	141-43-5	1 %
Potassium carbonate	584-08-7	1 %

WHMIS classification

Exempt - Consumer product

Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

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

16. Other Information

Disclaimer

This product should only be used as directed on the label and for the purpose intended. 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.

Further information

EASY-OFF® Fume Free Max Oven Cleaner - Aerosol, 400 g - 363915v6.0

Issue date

28-May-2013

Effective Date

15-May-2013

Expiry Date

15-May-2016

Prepared by

Reckitt Benckiser Regulatory Department 800-333-3899

Other Information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

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3. Exposure controls/personal protection

- 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.

9. Physical and chemical properties

Appearance

- Physical state** : Liquid. [Liquefied compressed gas.]
- Color** : White.
- Odor** : Lemon-like.
- Odor threshold** : Not available.
- pH** : 12.5 [Conc. (% w/w): 100%][25°C]
- Melting point** : Not available.
- Boiling point** : Not available.
- Flash point** : Open cup: >93.3°C (>199.9°F) [Concentration]
- 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** : 0.994 to 1.07
- 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.

Aerosol product

- Type of aerosol** : Foam
- Heat of combustion** : 4.594 kJ/g

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** : Avoid all possible sources of ignition (spark or flame).
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
potassium carbonate	LD50 Oral	Rat	1870 mg/kg	-
2-aminoethanol	LD50 Oral	Rat	1720 mg/kg	-
d-Limonene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	4400 mg/kg	-
*Easy-Off® FF Oven Cleaner Aerosol - Lemon scent	LC50 Inhalation Vapor	Rat	>200 mg/l	24 hours
	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary : Not classified Harmful. *Information is based on toxicity test result of the concentrate of a similar product.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
2-aminoethanol	Eyes - Severe irritant	Rabbit	-	250 Micrograms	-
	Skin - Moderate irritant	Rabbit	-	505 milligrams	-
d-Limonene	Skin - Mild irritant	Rabbit	-	24 hours 10 Percent	-
*Easy-Off® FF Oven Cleaner Aerosol - Lemon scent	Eyes - Edema of the conjunctivae	Rabbit	>2	-	14 days
	Skin - Erythema/Eschar	Rabbit	0.59	-	-

Conclusion/Summary

Skin : Non-irritant to skin.
*Information is based on toxicity test result of the concentrate of a similar product.

Eyes : Irritating to eyes.
*Information is based on toxicity test result of the concentrate of a similar product.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
d-Limonene	-	3	-

Reproductive toxicity

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1. Toxicological information

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Name	Result
d-Limonene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
irritation
redness
- Ingestion** : No specific data.

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

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11. Toxicological information

Not available.

General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Dermal	37894.7 mg/kg

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
2-(2-butoxyethoxy)ethanol potassium carbonate	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 630000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 650000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 8.42 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
2-aminoethanol	Acute LC50 >100000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
d-Limonene	Acute LC50 170000 µg/l Fresh water	Fish - Carassius auratus	96 hours
	Acute EC50 421 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 688 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
2-(2-butoxyethoxy)ethanol	1	-	low
2-aminoethanol	-1.31	-	low
d-Limonene	4.38	1022	high

Mobility in soil

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

Code # : FF363915
(D0059366)_US GHS

SDS # : D0059366 v6.0

Date of issue : 20/04/2015.

10/14

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12. Ecological information

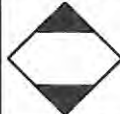
Other adverse effects : No known significant effects or critical hazards.

Release of large quantities into water may cause a pH-change resulting in danger for aquatic life.

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. Do not puncture or incinerate container.

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1950	Aerosols, flammable	2.1	-		<u>Limited quantity</u>
TDG Classification	UN1950	Aerosols, flammable	2.1	-		<u>Limited quantity</u>
Mexico Classification	UN1950	Aerosols, flammable	2.1	-		<u>Limited quantity</u>
IMDG Class	UN1950	Aerosols, flammable	2.1	-		<u>Limited quantity</u>
IATA-DGR Class	UN1950	Aerosols, flammable	2.1	-		<u>See DG-List.</u>

PG* : Packing group

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15. Regulatory information

U.S. Federal regulations : TSCA 8(a) PAIR: 1,1'-oxydipropyl-2-ol; pentane
 TSCA 8(a) CDR Exempt/Partial exemption: Not determined
 United States inventory (TSCA 8b): Not determined.
 Clean Air Act (CAA) 112 regulated flammable substances: isobutane

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

Clean Air Act Section 602 : Not listed
 Class I Substances

Clean Air Act Section 602 : Not listed
 Class II Substances

DEA List I Chemicals : Not listed
 (Precursor Chemicals)

DEA List II Chemicals : Not listed
 (Essential Chemicals)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Fire hazard
 Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
2-(2-butoxyethoxy)ethanol	5 - 10	Yes.	No.	No.	Yes.	No.
potassium carbonate	2.5 - 5	No.	No.	No.	Yes.	No.
2-aminoethanol	2.5 - 5	Yes.	No.	No.	Yes.	No.
d-Limonene	0.1 - 1	Yes.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	2-(2-butoxyethoxy)ethanol	112-34-5	7.125
Supplier notification	2-(2-butoxyethoxy)ethanol	112-34-5	7.125

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: ETHANOLAMINE; ISOBUTANE

New York : None of the components are listed.

New Jersey : The following components are listed: ETHANOLAMINE; ETHANOL, 2-AMINO-; GLYCOL ETHERS; Isobutane; PROPANE, 2-METHYL-

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15. Regulatory information

Pennsylvania : The following components are listed: ETHANOL, 2-AMINO-; GLYCOL ETHERS; PROPANE, 2-METHYL-

Label elements

Signal word : CAUTION

Hazard statements : Eye Irritant
Contains Monoethanolamine and Diethylene Glycol n-Butyl Ether.
CONTENTS UNDER PRESSURE.

Precautionary measures : Keep out of the reach of children. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 120 °F. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Do not get in eyes. Wash thoroughly after handling.

16. Other information

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

Health	2
Flammability	1
Physical hazards	0
Personal protection	D

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.)** :



NFPA (30B) aerosol Flammability Level 1

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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.

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16. Other information

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

Date of issue : 20/04/2015.

Date of previous issue : 13/10/2014.

Version : 6

Prepared by : Reckitt Benckiser LLC.
Product Safety Department
1 Philips Parkway
Montvale, New Jersey 07646-1810 USA.
FAX: 201-476-7770

Revision comments : Revision on section 2 (Inclusion of "Pressurized container: may burst if heated.").

☑ 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.



RB is a member of the CSPA Product Care Product Stewardship Program.