

Alachua County Food & Nutrition Services



MSDS Manual 2015-2016

Material Safety Data Sheets

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Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product Name/Trade Name	Pure Bright Disinfecting Bleach
Manufacturer:	KIK CUSTOM PRODUCTS 2921 Corder Street Houston, Texas 77054 Tel: 905 660-0444
Contact Number:	Tel: 1 800 255-3924
24Hr Emergency Contact Number:	KIK CUSTOM PRODUCTS Laboratory
Prepared By:	November 19, 2007
Replaces Date:	August 22, 2008
Date Last Revised:	

Section 2. Hazardous Ingredients

Name	%	CAS#	LD50/LC50
Sodium Hypochlorite	5.25 – 5.65	7681-52-9	5800 mg/kg / >10500 mg/m ³ (1hr)

Section 3. Physical Data

State	Liquid	PH	12.6 maximum
Appearance	Clear Colorless	% Volatile	93% Approx.
Odour	Chlorine/	Boiling Point	100°C
Specific Gravity	1.080 min	Vapour Pressure	N Av
Solubility	100%		

Section 4. Fire & Explosion

Flammable: YES NO X
Means of Extinction: Water, Carbon Dioxide, Dry Chemical or Foam
Special Procedures: Fire fighters should wear self-contained breathing apparatus.
Flash Point: & Method: Not Applicable
Hazardous Combustion Products: Chlorine Gas.

Section 5. Reactivity Data

Chemical Stability: YES X NO
Conditions: Temperature above 40 °C, sunlight and metals.
Incompatibility: YES X NO
What Substances? Acids, ammonia, urea, metals & oxidizers.
Reactivity / Conditions: Not Applicable
Hazardous Decomposition Products: Chlorine gas released by contact with acids. Contact with ammonia or urea produces nitrogen gas and chloramines. Oxygen is released on contact with metals.



Section 6. Toxicological Properties

Route of Entry	Skin Contact	X	Skin Absorption	Eye Contact	X
	Inhalation Acute	X	Inhalation Chronic	Ingestion	X

Effects of Acute Exposure: Inhalation of vapours will irritate breathing passages and may cause breathing difficulty. CORROSIVE will cause severe irritation to eyes and skin. May cause permanent damage if not treated properly. Ingestion can cause corrosion of mucous membranes, severe esophageal burns and perforation of esophagus or stomach.

Effects of chronic exposure: Not Known.

Carcinogenicity Reproductive Effects: Teratogenicity Mutagenicity: Effects not known.

Section 7. Preventative Measures

Protective Equipment
 Gloves: Impervious PVC or Neoprene. Eyes: Chemical splash goggles. Face shield also helpful.
 Respiratory: Not normally required. Footwear: Protect shoes and feet when using product for floor cleaning.

LEAK AND SPILL PROTECTION: Small spills: Dilute product by flooding area with large quantity of water and flush to sanitary sewer. Large spills: Contain run-off by diking with suitable material. Soak up liquid on inert absorbent and transfer to approved container. Prevent spill from entering sewers or waterways

WASTE DISPOSAL: Reclaim or dispose in accordance with local regulations.

STORAGE REQUIREMENTS: Store in a cool, dry and well-ventilated area.

Section 8. First Aid Measures

Skin: Wash with soap and water

Eyes: Flush eyes with cool running water holding eyelids apart to ensure thorough rinsing for 15 minutes. Remove contact lenses. See a doctor immediately.

Inhalation: Move to fresh air and restore breathing, if required.

Ingestion: DO NOT INDUCE VOMITING! Drink large amounts of water. Do not give anything by mouth to a convulsing or unconscious person. See a doctor immediately.

General Advice: If irritation occurs, see a doctor immediately.

Section 9. Regulatory Information

WHIMS:

Health: 2
 Flammability: 0
 Reactivity: 2

DOT: Not Regulated

As the handling and use of products under user's conditions are beyond our control, no warranty, expressed or implied, is made concerning this product. The information contained herein is offered only as a guide to the handling of this specific material and is not intended to be all-inclusive in the manner and conditions of use and handling. The user assumes all risks of use or handling, whether or not in accordance with any directions or suggestions of the manufacturer. Manufacturer shall not be liable to purchaser or any other person for loss or damages directly or indirectly arising from the use of our product.

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 49 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION	
NFPA Rating: Health-3; Flammability-0; Reactivity-0; Special- Manufacturer's Name: RITE-KEM, INC. Address: 703 Westmoreland Drive Tupelo, MS 38803	HHS Rating: Health-3; Flammability-0; Reactivity-0; Personal Protection-B DOT Hazard Classification: Corrosive liquid, n.o.s., 8, UN1760, PGIII Identity (trade name as used on label): <p style="text-align: center;">LIME-AWAY</p>
Date Prepared: 10/03/2003 Prepared By: ML Information Calls: (662)840-6060 / (800)841-5351 EMERGENCY RESPONSE NUMBER: 1(800)424-9300	NSN 6850-01-359-9214 Revision -2 NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater, Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
PHOSPHORIC ACID	7664-38-2	YES	1mg/m3	1mg/m3	d

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS	
Boiling Point: 100°C Vapor Pressure: PSIG @ 70°F (Aerosols): N/A Vapor Density (Air = 1): N/A Solubility in Water: Miscible Appearance and Odor: Clear non-viscous fluid with clean odor.	Specific Gravity (H2O=1): 1.26 Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A Evaporation Rate (water= 1): 1.0 Water Reactive: None

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA		
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) N/A	Auto Ignition Temperature N/A	Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A
FLASH POINT AND METHOD USED (non-aerosols): Non-combustible		SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH approved breathing apparatus & full protective gear when fighting fires. Spray containers with water to keep cool & prevent ruptures.
EXTINGUISHER MEDIA: Non-combustible, use media applicable to surrounding fire		
Unusual Fire & Explosion Hazards: Avoid exposure to metals, oxidants which might product flammable hydrogen gas.		

SECTION 4 - REACTIVITY HAZARD DATA	
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE Incompatibility (Mat. to avoid): Bases, alkalis, metals, mercuric sulfate, carbides of calcium, cesium, rubidium, acetylides, phosphides, silicides.	HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR Conditions to Avoid: Contact with strong bases can cause violent reaction generating large amounts of heat. High temperatures.
Hazardous Decomposition Products: Hydrogen fluoride gas, oxides of phosphorus, nitrogen and carbon, unidentified organics	

SECTION 5 - HEALTH HAZARD DATA	
PRIMARY ROUTES OF ENTRY: <input checked="" type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS	
ACUTE EFFECTS Inhalation: Irritant causing burning, choking, coughing, headache. Eye Contact: Irritation, severe burns & permanent damage including blindness. Skin Contact: Burning, irritation, dermatitis. Ingestion: Unlikely route-causes severe burns to internal organs.	
CHRONIC EFFECTS: None known. Medical Conditions Generally Aggravated by Exposure: Skin, eye, mucous membrane irritation.	

EMERGENCY FIRST AID PROCEDURES	
Eye Contact: Wash eyes for 15 minutes. Get immediate medical attention.	Skin Contact: Remove contaminated clothing, wash skin with water for 15 minutes.
Inhalation: Move to fresh air. Get medical attention.	
Ingestion: DO NOT INDUCE VOMITING. Drink 3 to 4 glasses of water. Get immediate medical attention.	
SECTION 6 - CONTROL AND PROTECTIVE MEASURES	
Respiratory Protection (specify type): Approved self-contained breathing apparatus when use concentrations exceed 100 ppm HCl vapors.	Protective Gloves: Neoprene. Eye Protection: Chemical goggles or face shield.
Ventilation Requirements: As necessary to maintain air concentration below 5 ppm at all times.	
Other Protective Clothing & Equipment: Neoprene or PVC rain suit & boots in case of fire. Safety showers & eyewash stations should be available.	
Hygienic Work Practices: Wash hands after use. Do not eat, drink or smoke in immediate area.	

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE	
Steps To Be Taken if Material is Spilled Or Released: Contain fluid by diking. Neutralize with soda ash or baking soda.	
Waste Disposal Methods: Neutralize material may be washed down the sewer. Absorbed material to be boxed and disposed of in compliance with local, state and federal regulations.	
Precautions To Be Taken In Handling & Storage: Store in closed labeled containers. Keep in cool, metal free area for not more than one year.	
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Do not store near strong alkalis or other reactive materials.	

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only

Material Safety Data Sheet

ECOLAB™

ECO-SAN

Section 1. Chemical product and company identification

Trade name : ECO-SAN
Product use : Sanitizer.
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 900043-02
Date of issue : 25-April-2008
EPA Registration No. : 1677-52

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

Section 2. Composition, information on ingredients

Name	CAS number	% by weight
sodium hypochlorite	7681-52-9	8.4

Section 3. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency overview : DANGER !
CAUSES EYE BURNS.
CAUSES SEVERE SKIN IRRITATION. Untreated contact may cause severe irritation or chemical burns.
May cause burns to mouth, throat and stomach.
CAUSES RESPIRATORY TRACT IRRITATION.
Do not ingest. Do not get in eyes, on skin or on clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Keep container closed. Wash thoroughly after handling.

Potential acute health effects

Eyes : Corrosive to eyes.
Skin : Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
Inhalation : Irritating to respiratory system.
Ingestion : May cause burns to mouth, throat and stomach.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention if irritation persists.
Ingestion : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire fighting measures

- Flash point** : > 100°C
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
halogenated compounds
metal oxide/oxides
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.
- Dike area of fire to prevent runoff.
- Special protective equipment for fire-fighters** : In a fire or if heated, a pressure increase will occur and the container may burst. 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** : Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

- Handling** : Do not ingest. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors, spray or mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
- Storage** : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.
- Do not store above the following temperature: 40°C

Section 8. Exposure controls, personal protection

- Engineering measures** : 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. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Personal protection :

- Eyes** : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.
- Hands** : Use chemical-resistant, impervious gloves.
- Skin** : Wear suitable protective clothing.
- Respiratory** : Avoid breathing vapors, spray or mists.

Name

chlorine

Exposure limits

ACGIH TLV (United States, 1/2004).

STEL: 2.9 mg/m³ 15 minute(s). Form: All forms

STEL: 1 ppm 15 minute(s). Form: All forms

TWA: 1.5 mg/m³ 8 hour(s). Form: All forms

TWA: 0.5 ppm 8 hour(s). Form: All forms

OSHA PEL (United States, 8/1997).

CEIL: 3 mg/m³ Form: All forms

CEIL: 1 ppm Form: All forms

Section 9. Physical and chemical properties

Physical state : Liquid. [Liquid.]
Color : Yellow. [Light]
Odor : chlorine
pH : 12.5 [Conc. (% w/w): 100%]
Specific gravity : 1.154

Section 10. Stability and reactivity

Stability : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Reactivity : Extremely reactive or incompatible with acids.
 Slightly reactive to reactive with metals.
 Mixing this product with acid or ammonia releases chlorine gas.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Potential acute health effects

Eyes : Corrosive to eyes.
Skin : Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
Inhalation : Irritating to respiratory system.
Ingestion : May cause burns to mouth, throat and stomach.

Potential chronic health effects

Target organs : Contains material which may cause damage to the following organs: upper respiratory tract.

Section 12. Ecological information

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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.

Waste classification : Unused product is D002 (Corrosive)

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	UN1791	Hypochlorite solutions	8	III	Not available.

APPLIES ONLY DURING ROAD TRANSPORT

Any variation of the shipping description based on the packaging is not addressed.

Section 15. Regulatory information

HCS Classification : Corrosive material
Target organ effects

U.S. Federal regulations : **United States inventory (TSCA 8b)**: All components are listed or exempted.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.

California Prop. 65 : No products were found.

EPA Registration No. : 1677-52

Section 16. Other information

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

Health	*	3
Flammability		0
Physical hazards		0

Date of issue : 25-April-2008.
Responsible name : Regulatory Affairs
Date of previous issue : 25-February-2005.

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

ECOLAB

PANTASTIC

Section 1. Chemical product and company identification

Trade name : PANTASTIC
Product use : Manual Warewashing Detergent
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 911601
Date of issue : 09-January-2009

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

Section 2. Composition, information on ingredients

Name	CAS number	% by weight
amides, coco, n,n-bis(hydroxyethyl)	68603-42-9	1 - 5
sulfuric acid, mono-c10-16-alkyl esters, sodium salts	68585-47-7	1 - 5
poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, c10-16-alkyl ethers, sodium salts	68585-34-2	1 - 5

Section 3. Hazards identification

Physical state : Liquid. [Liquid.]
Emergency overview : CAUTION!
MAY CAUSE EYE AND SKIN IRRITATION.

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Potential acute health effects

Eyes : Moderately irritating to eyes.
Skin : Moderately irritating to the skin.
Inhalation : Slightly irritating to the respiratory system.
Ingestion : No known significant effects or critical hazards.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.
Skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.

Section 5. Fire fighting measures

Flash point : > 100°C
Product does not support combustion.
Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
metal oxide/oxides

Fire-fighting media and instructions

Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.

Special protective equipment for fire-fighters

In a fire or if heated, a pressure increase will occur and the container may burst. 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** : Use suitable protective equipment (section 8). Do not allow to enter drains or watercourses.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

- Handling** : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
- Storage** : Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed.
Do not store above the following temperature: 50°C

Section 8. Exposure controls/personal protection

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

Personal protection :

- Eyes** : Eye protection recommended.
- Hands** : For prolonged or repeated handling, use the following type of gloves: Impervious gloves.
- Skin** : No protective equipment is needed under normal use conditions.
- Respiratory** : A respirator is not needed under normal and intended conditions of product use.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

- Physical state** : Liquid. [Liquid.]
- Color** : Blue. [Dark]
- Odor** : Floral.
- pH** : 6.8 to 8.5 [Conc. (% w/w): 100%]
- Relative density** : 1.005 to 1.035
- Dispersibility properties** : Easily dispersible in the following materials: cold water and hot water.
- Solubility** : Easily soluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

- Stability** : The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Potential acute health effects

- Eyes** : Moderately irritating to eyes.
Skin : Moderately irritating to the skin.
Inhalation : Slightly irritating to the respiratory system.
Ingestion : No known significant effects or critical hazards.

Section 12. Ecological information

Section 13. Disposal considerations

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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.

Consult your local or regional authorities.

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.

UN Classification : Not regulated.

See shipping documents for specific transportation information.

Section 15. Regulatory information

HCS Classification : Irritating material

U.S. Federal regulations : **SARA 302/304/311/312 extremely hazardous substances**: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

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

California Prop. 65 : No products were found.

Section 16. Other information

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

Health	1
Flammability	0
Physical hazards	0

Date of issue : 09-January-2009.

Responsible name : Regulatory Affairs

Date of previous issue : 19-April-2008.

Notice to reader

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Material Safety Data Sheet

ECOLAB

SOLID POWER

Section 1. Chemical product and company identification

Trade name : SOLID POWER
Product use : Machine Warewashing Detergent
Supplier : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326
Code : 949008
Date of issue : 25-August-2008

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

Section 2. Composition, information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
sodium hydroxide	1310-73-2	36
triphosphoric acid, pentasodium salt	7758-29-4	14
sodium carbonate	497-19-8	20 - 50

Section 3. Hazards identification

Physical state : Solid. [Cast Solid]
Emergency : WARNING!
overview : CAUSES SEVERE EYE AND SKIN IRRITATION. Untreated contact may cause severe irritation or chemical burns.
MAY BE HARMFUL IF SWALLOWED.
May cause burns to mouth, throat and stomach.
Do not ingest. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

Potential acute health effects

Eyes : Severely irritating to eyes. Untreated contact may cause chemical burns.
Skin : Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
Inhalation : No known significant effects or critical hazards.
Ingestion : May be harmful if swallowed. Causes burns to mouth, throat and stomach.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation : If inhaled, remove to fresh air.
Ingestion : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire fighting measures

- Flash point** : > 100°C
Product does not support combustion.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
phosphorus oxides
metal oxide/oxides
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.

Dike area of fire to prevent runoff.
No specific fire or explosion hazard.
- 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** : Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilled material.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : If emergency personnel are unavailable, vacuum or carefully scoop up spilled material and place in an appropriate container for disposal.

Section 7. Handling and storage

- Handling** : Do not ingest. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.
- Storage** : Keep out of the reach of children. Do not allow water to enter container. Keep container tightly closed. Keep container in a cool, well-ventilated area.
Store between the following temperatures: -10 and 50°C

Section 8. Exposure controls/personal protection

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

Personal protection:

- Eyes** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Hands** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Skin** : Due to the form and packaging of the product, no protective equipment is needed under normal use conditions.
- Respiratory** : A respirator is not needed under normal and intended conditions of product use.

Name

sodium hydroxide

Exposure limits

ACGIH TLV (United States, 1/2008).

C: 2 mg/m³

OSHA PEL (United States, 11/2006).

TWA: 2 mg/m³ 8 hour(s).

Section 9. Physical and chemical properties

Physical state	: Solid. [Cast Solid]
Color	: Blue. [Light]
Odor	: Faint odor.
pH	: 12 to 13 [Conc. (% w/w): 1%]
Solubility	: Easily soluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

Stability	: The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
Reactivity	: Extremely reactive or incompatible with the following materials: acids. Highly reactive or incompatible with the following materials: metals. Reactive or incompatible with the following materials: organic materials and moisture.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Potential acute health effects

Eyes	: Severely irritating to eyes. Untreated contact may cause chemical burns.
Skin	: Severely irritating to the skin. Untreated contact may cause severe irritation or chemical burns.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: May be harmful if swallowed. Causes burns to mouth, throat and stomach.

Potential chronic health effects

Target organs	: Contains material which may cause damage to the following organs: lungs, upper respiratory tract.
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Section 12. Ecological information

Section 13. Disposal considerations

Waste disposal	: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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.
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Consult your local or regional authorities.

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.

UN Classification

UN number	UN1759
Proper shipping name	CORROSIVE SOLIDS, N.O.S. (Contains Sodium hydroxide)
Class	8
Packing group	III

See shipping documents for specific transportation information.

Section 15. Regulatory information

- HCS Classification** : Corrosive material
Target organ effects
- U.S. Federal regulations** : **SARA 302/304/311/312 extremely hazardous substances**: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
TSCA 8(b) inventory : All components are listed or exempted.
- California Prop. 65** : No products were found.

Section 16. Other information

Hazardous Material Information System (U.S.A.) :	Health	*	2
	Flammability		0
	Physical hazards		0

- Date of issue** : 25-August-2008.
Responsible name : Regulatory Affairs
Date of previous issue : 15-August-2005.

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.**



PROFESSIONAL
PRODUCTS

MATERIAL SAFETY DATA SHEET

AIRWICK INDUSTRIES, INC.
CARLSTADT, NEW JERSEY 07072

Date: September, 1985
Supersedes: January, 1985

Emergency Telephone Number:

201-933-8200

TRADE NAME	A-33 DRY
PRODUCT TYPE	Disinfectant/detergent/odor counteractant

I. PHYSICAL DATA

BOILING POINT (°F) 760mm Hg	N/A**	FREEZING POINT (°F)	N/A
SPECIFIC GRAVITY (H ₂ O=1)	Bulk density = 1.66	SOLUBILITY IN WATER, % by wt. at 20°C	appreciable
PERCENT VOLATILES BY VOLUME	1.6%	pH (as is) at 1:256	9.6-10.0
APPEARANCE AND ODOR	Green powder with non-descript odor		
OTHER	N/A		

II. HAZARDOUS INGREDIENTS

CHEMICAL OR COMMON NAME	CAS #	%	PEL OR TLV	PRIMARY HAZARD
tetrasodium EDTA	64-02-8.	4.9	N/A	irritant
Quaternary ammonium chlorides n-alkyl (60% C ₁₄ , 30% C ₁₆ , 5% C ₁₂ , 5% C ₁₈) dimethyl benzyl ammonium chlorides	68956-79-6*	11.6	N/A	corrosive
n-alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethylbenzyl ammonium chlorides	68956-79-6*			

III. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (°F) (test method)	NIL (C.O.C.)	FLAME EXTENSION	N/A
FLAMMABLE LIMITS IN AIR, % by volume	N/A	LOWER	UPPER N/A
EXTINGUISHING MEDIA	Non-flammable; select media suitable for surrounding fire.		
SPECIAL FIRE FIGHTING PROCEDURES	None		
UNUSUAL FIRE AND EXPLOSION HAZARDS	None		

**N/A - Not Applicable

A-33 DRY

IV. HEALTH HAZARD DATA (3116-4627)

EFFECTS OF OVEREXPOSURE

Ingestion: Harmful if swallowed. Weakness, convulsions, labored respiration, shock.
 Skin: Moderate irritant.
 Eyes: Severe irritant.

EMERGENCY AND FIRST AID PROCEDURES

Ingestion: Give water. Induce vomiting.
 Skin: Wash with soap and water.
 Eyes: Flush with water for 15 minutes.
 CALL PHYSICIAN IMMEDIATELY.

V. REACTIVITY DATA

STABILITY Unstable Conditions
 Stable To Avoid None

INCOMPATIBILITY
 (Materials To Avoid) Anionic soap and detergents.

HAZARDOUS DECOMPOSITION
 PRODUCTS None

HAZARDOUS POLYMERIZATION May Occur Conditions
 Will Not Occur To Avoid None

VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN
 IF MATERIAL IS RELEASED
 OR SPILLED

Sweep up excess material into a disposable container.

WASTE DISPOSAL METHOD

Discard according to local, state and federal regulations and label directions.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION
 (Specify Type) N/A

VENTILATION Local Exhaust N/A Mechanical (General) Sufficient Special N/A Other N/A

PROTECTIVE GLOVES Gloves recommended EYE PROTECTION Goggles recommended

OTHER PROTECTIVE CLOTHING OR EQUIPMENT N/A

VIII. SPECIAL PRECAUTIONS

CAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Do not handle with wet hands. Store in cool dry place. Keep container closed. Do not remove packets before use. Do not reuse empty container.

OTHER N/A

PLEASE NOTE: BEFORE USING THIS OR ANY PRODUCT...

MEDICAL EMERGENCY ONLY, 24 HOUR SERVICE: 1-800-328-0026

Ecolab Inc.

St. Paul MN 55102

Product Information: 1-612-293-2233

Date of Issue: April 12, 1989

=====

1.0 IDENTIFICATION /

1.1 Product Name: LIME-A-WAY

1.2 Product Type: Aqueous Acidic Cleaner/Delimer

++ Section 2 Provides SARA Section 313 Reporting Information ++

2.0 HAZARDOUS COMPONENTS /

2.1 Phosphoric acid 7664-38-2

Air Limits (mg/m3)		
Z	PEL	Other
30	1	1

This product contains no other component considered hazardous according to the criteria of 29 CFR 1910.1200. STEL = 3

3.0 PHYSICAL DATA /

3.1 Appearance and Odor: Clear green liquid; mild organic odor

3.2 Solubility in Water: Complete

3.3 pH: 100% = 1.0-1.5; 1.0% = 2.0-3.0

3.4 Boiling Point: 212 deg F

Specific Gravity: 1.20-1.30

4.0 FIRE AND EXPLOSION DATA /

4.1 Special Fire Hazards: None

4.2 Fire Fighting Methods: Product does not support combustion.

5.0 REACTIVITY DATA /

5.1 Stability: Stable under normal conditions of handling.

5.2 Conditions to Avoid: Mix only with water. Can react violently with alkaline material or metals. Do not mix with chlorinated detergents or sanitizers - will cause hazardous vapors.

6.0 SPILL OR LEAK PROCEDURES /

USE PROPER PROTECTIVE EQUIPMENT

6.1 Cleanup: Rinse small amounts to drain where possible. Dike or dam large spills; pump to containers or soak up on inert absorbent. Flush residue to sanitary sewer; rinse area thoroughly.

6.2 Waste Disposal: Consult state and local authorities for restrictions on disposal of chemical waste. Unused product as a waste is Corrosive (D002) by RCRA criteria.

UNK = Unknown at this time PEL = Permissible Exposure Limit
 TLV = Threshold Limit Value STEL = Short Term Exposure Level
 C = Ceiling Limit, Not To Be Exceeded

Product: LIME-A-WAY
Ecolab Inc.

MEDICAL EMERGENCY ONLY, 24 HOUR SERVICE: 1-800-328-0026
=====

7.0 HEALTH HAZARD DATA /

DANGER

7.1 Effects of Overexposure:

- Skin and Eyes: Can cause severe irritation, possible chemical burns.
- If Swallowed: Harmful. Can cause chemical burns of mouth, throat and stomach.
- If Inhaled: Vapors cause irritation, including a burning taste, sneezing, coughing and difficulty breathing. People with asthma or other lung problems may be more susceptible.

8.0 FIRST AID /

- 8.1 Eyes: Immediately flush with plenty of cool running water. Remove contact lenses. Continue flushing for at least 15 minutes, holding eyelids apart to ensure rinsing of entire eye. CALL A PHYSICIAN IMMEDIATELY.
- 8.2 Skin: Immediately flush skin with plenty of cool running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
- 8.3 If Swallowed: Rinse mouth at once; then drink 1 or 2 large glasses of water or milk. DO NOT induce vomiting. NEVER give anything by mouth to an unconscious person.
- 8.4 If Inhaled: Immediately move to fresh air.

CALL A POISON CONTROL CENTER OR PHYSICIAN IMMEDIATELY

9.0 SPECIAL PROTECTION INFORMATION /

- 9.1 Respiratory: Avoid breathing dusts or mists of this product.
- 9.2 Skin: Rubber gloves - protective cuff or gauntlet type preferred.
- 9.3 Eyes: Splashproof glasses, goggles or face shield.
- 9.4 Other: Avoid contact with use solutions. These may also be hazardous.

10.0 ADDITIONAL INFORMATION/PRECAUTIONS /

10.1 DOT Class: Corrosive Material UN 1760

KEEP OUT OF REACH OF CHILDREN

The above information is believed to be correct with respect to the formula used to manufacture the product. 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 (MSDS)

Issue/Revision Date: 16 February 2009

Section 1. Product and Company Information

Chemical Name: Acetic acid, 5% by volume
Synonym(s): None
Tradename(s): Distilled white vinegar, Full Disclosure Extraction Solution #2
Catalog No.: 550-021, also component of 550-001 and 550-002

Company: SKC Inc.
Address: 863 Valley View Road
Eighty Four, PA 15330 U.S.A.
Phone: 724-941-9701
Fax: 724-941-1369
Toll-free (U.S.): 800-752-8472
Email: skctech@skcinc.com
Web: www.skcinc.com

Section 2. Composition/Information on Ingredient(s)

Chemical Name	Formula	CAS #	OSHA PEL	ACGIH® TLV®
Acetic acid, 5% by volume	CH ₃ COOH	8028-52-2	None	None

Section 3. Hazards Identification

LD50 LC50 Mixture: None specified by manufacturer

Route of Entry Indicators

Inhalation: Yes
Skin Contact: Yes
Ingestion: Yes

Carcinogenicity Indicators

NTP: No
IARC: No
OSHA: No

Effects of Exposure

Inhalation: Prolonged inhalation of vapors can cause irritation to respiratory tract.
Eyes: Will cause eye irritation (smarting and reddening of the eye)

Explanation of Carcinogenicity: Not relevant

Signs and Symptoms of

Overexposure: See Effects of Exposure.

Medical Conditions Aggravated

by Exposure: None specified by manufacturer

Section 4. First Aid Measures

Inhalation

Remove to fresh air. Support breathing (give oxygen/artificial respiration).

Skin

Flush with copious amounts of water. Call physician.

Eye

Flush immediately and thoroughly with water for at least 15 to 20 minutes (timed by a clock). Call a physician.

Ingestion

Large amounts of water should be consumed to dilute. Do not induce vomiting. Do not give emetics or baking soda. Call a physician.

Section 5. Fire Fighting Measures

Flash Point: N/A

Auto-ignition Temperature: N/A

Flammability: N/A

Extinguishing Media: Media suitable for surrounding fire

Firefighting Procedures: Use NIOSH/MSHA-approved SCBA and full protective equipment.

Unusual Fire Explosion

Hazard: None specified by manufacturer

Section 6. Accidental Release Measures

Spill Release Procedures: If spilled, water may be used to dilute.

Neutralizing Agent: None specified by manufacturer

Section 7. Handling and Storage

Handling and Storage

Precautions: None specified by manufacturer

Other Precautions: None specified by manufacturer

Section 8. Exposure Controls/Personal Protective Equipment (PPE)

Respiratory Protection: NIOSH/MSHA-approved respirator appropriate for exposure of concern

Ventilation: None specified by manufacturer

Protective Gloves: None specified by manufacturer

Eye Protection: None specified by manufacturer

Other Protective Equipment: None specified by manufacturer

Work Hygienic Practices: None specified by manufacturer

Supplemental Safety and

Health: PH: 2.2 @ 100 grain

Section 9. Physical/Chemical Properties

Appearance: Clear liquid

Odor: Vinegar

Chemical Properties

Property	Value
B.P. Text	244 F (118 C)
Vapor Pressure	11 mm
Vapor Density	2.1
Specific Gravity	1.01
PH	2.2 @ 100 grain
Evaporation Rate/Ref	Not Known
Solubility in Water	Complete

Note: No further properties were reported by chemical supplier.

Section 10. Stability and Reactivity

Stability Indicator: Yes
Stability Condition to Avoid: None specified by manufacturer
Materials to Avoid: None specified by manufacturer
Hazardous Decomposition Products: None specified by manufacturer
Hazardous Polymerization Indicator: No
Conditions to Avoid Polymerization: Not relevant

Section 11. Toxicological Information

No data available from chemical supplier

Section 12. Ecological Information

No data available from chemical supplier

Section 13. Disposal Considerations

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

Section 14. Transport Information

No data available from chemical supplier

Section 15. Regulatory Information

No data available from chemical supplier

Section 16. Other Information

Disclaimer

For approved uses only

The above information is believed to be correct, but does not purport to be all-inclusive and shall be used only as a guide. SKC Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

Product: White Distilled Vinegar
Pack: 4/1 gallon

Brand: U.S.™ Blue
Item #: 252630

Product Description: White distilled vinegar is the product obtained from the acetous fermentation of dilute distilled ethyl alcohol from corn, adjusted with water to the specified strength.

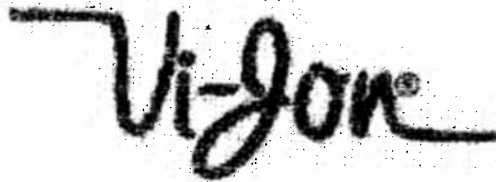
Ingredients: White distilled vinegar (diluted with water to 5% acidity).

Shelf life: 18 months, however best if used within 12 months.

Recommended Storage: Best if stored in a cool dry area (between 45 and 85°F).

Nutrition Facts		
Serving Size	1 Tbsp. (15 mL)	
Serving per container	about 252	
Amount per Serving		
Calories	0	Calories from fat 0
% Daily Value*		
Total fat	0g	0%
Saturated fat	0g	0%
Trans fat	0g	0%
Cholesterol	0g	0%
Sodium	0mg	0%
Total Carbohydrate	0g	0%
Dietary Fiber	0g	0%
Sugars	0g	
Protein	0g	
Vitamin A	0%	• Vitamin C 0%
Calcium	0%	• Iron 0%
*Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs.		
	Calories	2,000 2,500
Total Fat	< 65g	< 80g
Sat. Fat	< 20g	< 25g
Cholesterol	< 300mg	< 300mg
Sodium	< 2400mg	< 2400mg
Total Carbohydrates	300g	375g
Dietary Fiber	25g	30g
Calories per gram:		
Fat	9	Carbohydrates 4 Protein 4

Material Safety Data Sheet



Section 1: PRODUCT AND COMPANY IDENTIFICATION

Vi-Jon Incorporated
8515 Page Avenue
Saint Louis, MO 63114

Phone: 314-427-1000
In Case of Spill Emergency Contact:
Chemtec: 1-800-424-9300

Product Name: Isopropyl Rubbing Alcohol 70%
Product Code: 810
Product Use: Various
Issue Date: 05/05/2008
Supersedes Date: None

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Keep out of reach of children.
Appearance/Odor: A clear, colorless, mobile liquid with a characteristic odor.

WARNING:
Flammable (isopropyl alcohol)
Target (isopropyl alcohol) respiratory system, skin, eyes, CNS, liver, blood and reproductive system.

Potential Health Effects: See Section 11 for more information.

Symptoms of Exposure:

Inhalation: May cause irritation of the respiratory tract.
Ingestion: May cause nausea, vomiting and diarrhea.
Eyes: May cause irritation to the eyes.
Skin: May cause irritation to the skin.

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

This material contains a component that is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: See Section 12 for more information.

Item Number: 810
05/05/2008

Page 2
of 5

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS#	% by Wt.
Isopropyl Alcohol	67-63-0	70%

Section 4: FIRST AID MEASURES

Emergency first aid procedures by route of exposure:

Inhalation: If symptoms are experienced, remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting. If the material is swallowed, get medical attention or advice.

SKIN: If irritation is experienced, flush with water. If irritation persists, get medical attention.

Eyes: Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, get medical attention.

Section 5: FIRE FIGHTING MEASURES

Flash Point: 70°F

Auto Ignition: (Isopropyl Alcohol) 399°C

Flammability Classification: Flammable Liquid IB

Extinguishing Media: Use methods appropriate for the surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder, or alcohol resistant foam.

Products of Combustion: Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

Fire Fighting Equipment/Instructions: Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.

NFPA Rating: Health:1 Fire: 3 Reactivity:0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: For large spills wear gloves, safety glasses and when levels exceed OSHA PEL use appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

Environmental Precautions: Prevent discharge to open waters.

Method for Containment: Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

Methods for Clean-Up: Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container. Wash spill area with water.

Section 7: HANDLING AND STORAGE

Handling: Keep away from heat, sparks and flame. Prevent contact with eyes. Avoid inhalation.

Storage: Keep the container tightly closed and in a cool, well ventilated place.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Isopropyl Alcohol (67-63-0)

ACGIH: 200 ppm TWA

OSHA: 400 ppm TWA; 980 mg/m³ TWA

Engineering Controls: Normal room ventilation is usually adequate under normal use.

Personal Protective Equipment (PPE)

Eye/Face Protection: None needed under normal use.

Skin Protection: None needed under normal use.

Respiratory Protection: None needed under normal use.

General Hygiene Considerations: None needed under normal use.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Color: Clear, colorless, mobile liquid

Odor: Isopropyl alcohol

Physical State: Liquid

pH: Not Available.

Vapor Density: (Isopropyl Alcohol) 2.07 (air = 1)

Boiling Point: (Isopropyl Alcohol) 82.5°C [DIN 43171]

Vapor Pressure: (Isopropyl Alcohol) 42 hPa at 20°C

Melting Point: (Isopropyl Alcohol) -90°C

Freezing Point: Not Available

Flash Point (see section 5)

Flammability Properties (see section 5)

Solubility (in water): Soluble

Specific Gravity @ 25°C: 0.876-0.881

Evaporation Rate: Not Available

Octanol/Water partition coefficient (Kow): (Isopropyl Alcohol): 0.05 at 25°C

Auto-ignition temperature: (Isopropyl Alcohol) 399°C

Decomposition temperature: Not Available

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal ambient temperatures 70°C (21°C).

Condition to Avoid: Avoid excessive heat or sources of ignition.

Incompatible Materials: This product reacts with strong acid, strong bases, and oxidizing agents.

Hazardous Decomposition: Upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

Hazardous Reactions: Hazardous polymerization will not occur.

Section 11: TOXICOLOGY INFORMATION

ACUTE EFFECTS:

A: General Product Information
Product contains isopropyl alcohol.

B: Component Analysis LD50
Isopropyl Alcohol (67-63-0)
Inhalation LC50 Rat: 72.6 mg/L/4H
Oral LD50 Rat: 4396 mg/kg
Dermal LD50 Rat: 12800 mg/kg
Dermal LD50 Rabbit: 12870 mg/kg

CHRONIC EFFECTS:

Component
Isopropyl Alcohol (67-63-0)
Carcinogenicity: ACGIH A4 - Not Classifiable as a Human Carcinogen
Neurotoxicity: This product contains isopropyl alcohol, a central nervous system target.
Mutagenicity: No information available for product.
Reproductive: No information available for product.
Developmental: This product contains isopropyl alcohol, a developmental hazard.
Target Organs: skin, eyes, CNS, Kidney, Developmental and respiratory system.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Isopropyl Alcohol (67-63-0)

96 Hr EC50 Scenedesmus Subspicatus: >1000 mg/L
72 Hr EC50 Scenedesmus subspicatus:>1000 mg/L
96 Hr LC50 Pimephales promelas: 9640 mg/L [flow through]
96 Hr LC50 Pimephales promelas: 94900 mg/L [flow through] (29 days old)
96 Hr LC50 Pimephales promelas: 61200 mg/L [flow through] (31 days old)
5 min EC50 Photobacterium phosphoreum: 35390 mg/L
48 Hr EC50 Daphnia magna: 13299 mg/L

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORTATION INFORMATION

Shipping Name: Consumer Commodity ORM-D
Proper Shipping Name for Non-Consumer Commodity: Isopropanol, 3, UN1219, PGII.

Section 15: REGULATORY INFORMATION

Isopropyl alcohol, a component of this product, is on the TSCA inventory.

The following components appear on one or more of the following state hazardous substance lists:

Component	CAS#	CA	MA	MN	NJ	PA
Isopropyl Alcohol	67-63-0	YES	YES	YES	YES	YES

Section 16: Other Information

Prepared by: Vi-Jon Inc.

Disclaimer:

The information and recommendations contained in the Material Safety Data Sheet (MSDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

Vi-Jon, however, makes no representation as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the information will be required to make their own determination as to its suitability for their purposes prior to use. In no event will Vi-Jon be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information. User assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations.

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This information relates to the material designated and may not be valid for such material used in combination with any other materials nor in any process.

MATERIAL SAFETY DATA SHEET

<p>Section 1. Chemical Product and Company Information</p> <p>Product #: RS 370 Distributor Number: F00109 Product Name: Liquid Cream Cleanser Product Use: Crema Cleanser Distributor Name: Dade Paper Company Distributor Address: 9601 NW 112th Avenue Miami, Florida 33178 Emergency Phone #: 1-800-535-6053 Inhouse 24 hours Date Prepared/Updated: 2-15-07 Hazardous Material Information System (HMIS) Health: 1 Fire Hazard: 0 Reactivity: 0 Precautionary Label Statements: Caution</p> <p>Section 2. Composition and Information on Ingredients</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Ingredients</th> <th>CAS#</th> <th>%</th> <th>Exposure Limits</th> </tr> </thead> <tbody> <tr> <td>Water</td> <td>7732-18-5</td> <td>80-80</td> <td>Not Listed</td> </tr> <tr> <td>Calcium Carbonate</td> <td>471-34-1</td> <td>50-80</td> <td>10mg/m³</td> </tr> <tr> <td>Arnica Sulfonate Complex</td> <td>28545-53-9</td> <td><5</td> <td>Not Listed</td> </tr> <tr> <td>Smeectol Clay</td> <td>12399-37-0</td> <td><5</td> <td>Not Listed</td> </tr> </tbody> </table> <p>Section 3. Hazardous Identification</p> <p>Route of Entry: Eyes Potential Acute Health Effects: None known</p> <p>Section 4. First Aid Measures</p> <p>Eye Contact: Flush immediately with water for 15 minutes being careful to flush behind the eyelids. Seek medical attention if irritation persists or develops. Inhalation: No harmful effects expected. Skin Contact: No harmful effects expected. Prolonged or repeated contact may dry skin and cause irritation. Ingestion: Immediately drink plenty of water. If discomfort persists, get medical attention.</p> <p>Section 5. Fire Fighting Measures</p> <p>Hazardous: N/A Fire Fighting Media and Instructions: Extinguish with water spray or carbon dioxide; dry chemical powder or appropriate foam. Normal fire fighting procedure may be used. Unusual Fire and Explosion Hazards: None known</p> <p>Section 6. Accidental Release Measures</p> <p>Personal Precautions: Put on appropriate personal protective equipment (see section 8). Environmental Precautions: In the event of major spillage, use appropriate containment to avoid environmental contamination. Collect spilled material. Place in suitable clean, dry containers for disposal by approved methods. Use a water rinse for final clean up.</p> <p>Section 7. Handling and Storage</p> <p>Handling: Avoid contact with eyes. Use appropriate hygiene methods when handling product. For industrial use only. Storage: Store in a cool well ventilated area. Protect from freezing. Keep out of reach of children.</p> <p>Section 8. Exposure Controls & Personal Protection:</p> <p>Engineering Controls: None usually needed. General room ventilation is adequate</p> <p>Personal Protection: Eyes: No special requirements under normal use conditions Hands: No special requirements under normal use conditions Respiratory: No special requirements under normal use conditions Additional Measures: N/A Usual Carcinogen: No Ingredients listed by ACP, IARC or OSHA Subpart Z Medical Condition Aggravated: Persons with pre-existing skin disorders may be susceptible to irritating effects.</p>	Ingredients	CAS#	%	Exposure Limits	Water	7732-18-5	80-80	Not Listed	Calcium Carbonate	471-34-1	50-80	10mg/m ³	Arnica Sulfonate Complex	28545-53-9	<5	Not Listed	Smeectol Clay	12399-37-0	<5	Not Listed	<p>Section 9. Physical and Chemical Properties</p> <p>Fragrance: Baby Powder Physical State: Liquid Color: White pH: 9.0-9.5 Specific Gravity: 1.40 Boiling/Condensation Point: Approximately 212°F Melting/Freezing Point: Approximately 32°F Solubility in Water: Complete at 25° C</p> <p>Section 10. Stability and Reactivity</p> <p>Stability and Reactivity: Stable Conditions of Instability: None known Incompatibility with Various Substances: None known Decomposition Products: Hazardous Polymerization: When exposed to fire: Produces normal products of combustion.</p> <p>Section 11. Toxicological Information</p> <p>Effects of Chronic Exposure: None known</p> <p>Section 12. Ecological Information: None known</p> <p>Section 13. Disposal Considerations: Dispose of all wastes according to all federal, state and local legislation.</p> <p>Section 14. Transport Information DOT Classification: Not Hazardous</p> <p>Section 15. Regulatory Information Reporting in this section is based on ingredients disclosed in Section 2</p> <p>U.S. Regulation: Not Regulated. Federal: Not Regulated. State: Not Regulated. Registered Product Information: Not EPA Registered.</p> <p>See Section 3.12: Immediate (Acute) Hazards</p> <p>See Section 3.13: Toxic Release Inventory Reporting Registered Product Information: None Present</p> <p>Section 16. Other Information None reported.</p> <p>Other Special Considerations: None reported.</p> <p>Manufacturer: Midlab, Inc. Address: 232 Industrial Park Road Sweetwater, TN 37874</p>
Ingredients	CAS#	%	Exposure Limits																		
Water	7732-18-5	80-80	Not Listed																		
Calcium Carbonate	471-34-1	50-80	10mg/m ³																		
Arnica Sulfonate Complex	28545-53-9	<5	Not Listed																		
Smeectol Clay	12399-37-0	<5	Not Listed																		

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 herein. 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 must comply with all federal, state, provincial and local laws and regulations.

DADE
 Product #370
F00109



Spartan Chemical Company, Inc.
Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):
GLASS CLEANER (BULK)
Product Number: 3030; 3261

Product Division:
Janitorial

Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee OH 43537

Product/Technical Information: 1-(800)-537-8990
Medical Emergency: 1-(888)-314-6171 (24 hours)
Chemical Leak/Spil Emergency: CHEMTREC 1-(800) 424-9300 (24 hours)

Shipping Description: Cleaning compounds, liquid, n.o.s.

NFPA Ratings:	HMIS Ratings:
Health: 1- Slight Fire: 0 - Minimal Reactivity: 0 - Minimal	Health: 1- Slight Fire: 0 - Minimal Reactivity: 0 - Minimal Pers. Prot. Equip.: See Section VIII

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

Chemical Name(s)	%Wt	CAS Registry No.	Table Z-1-A			NTP, IARC or OSHA Carcinogen
			TWA mg/m ³	STEL mg/m ³	CEILING mg/m ³	
Isopropyl alcohol	1-5	67-63-0	980	1225	Not Established	No

SECTION III: PHYSICAL DATA

Boiling Point: 212 °F	Vapor Pressure: Not determined
Vapor Density (AIR = 1): Unknown	Solubility in Water: Complete
pH: 9.0-10.0	Specific Gravity (H ₂ O=1): 0.991
Evaporation Rate (but.ace.=1): <1	Percent Solid by Weight: < 1.0
Physical State: Liquid	
Appearance & Odor: Clear blue liquid, floral fragrance	

SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point: > 212°F	Method Used: ASTM-D56
Flammable Limits: Not Established	Flame Extension: N/A
Extinguishing Media: Product does not support combustion. Use extinguishing media appropriate for surrounding fire.	
Special Fire Fighting Procedures: Wear NIOSH approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.	
Unusual Fire & Explosive Hazards: Combustion products are toxic.	

SECTION V: HEALTH HAZARD DATA

Threshold Limit Value: Not Established

Primary Routes of Entry: Inhalation, Skin Contact, Eyes and Oral

Effects of Overexposure: May cause mild eye and skin irritation. May be harmful if swallowed. Inhalation of product mist may cause respiratory irritation. Avoid contact with eyes. Avoid prolonged or repeated contact with skin.

Conditions to Avoid: Do not swallow. Avoid breathing product mist. Wash thoroughly after handling.

Conditions Aggravated by Use: Use of this product may aggravate preexisting skin, eye and respiratory disorders including asthma and dermatitis.

Emergency & First Aid Procedures:

Eyes: Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses. Get medical attention.

Skin: Wash skin thoroughly with soap and water. Get medical attention if irritation persists. Wash contaminated clothing before reuse.

Ingestion: Do not induce vomiting. Drink one or two glasses of water to dilute product. Get medical attention. Do not give anything by mouth to an unconscious person.

Inhalation: In case of respiratory irritation; move person to fresh air. Get medical attention if irritation persists.

SECTION VI: REACTIVITY DATA

Stability: Stable

Hazardous Decomposition Products: CO, CO2

Incompatible Materials: Strong oxidizers

Hazardous Polymerization: Will Not Occur

SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Small spills of one gallon or less may be flushed with plenty of water to sanitary sewer system (If permitted by local sewer regulations). Dike and contain large spills with inert material and transfer liquid to containers for disposal. Keep spill out of storm sewers and waterways.

Waste Disposal Method: Dispose of in compliance with all federal, state and local laws and regulations.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required

Ventilation: Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.

Protective Gloves(Specify Type): Not required. Impervious gloves may be worn if desired.

Eye Protection(Specify Type): Not required. Splash goggles may be worn if desired.

Other Protective Equipment: See 29 CFR 1910.132-138 for further guidance.

SECTION IX: SPECIAL PRECAUTIONS

Precautions; Handling & Storing: Keep out of reach of children

Other Precautions: Keep from freezing.

© SCC 06/01/2007

GLASS CLEANER (BULK)

Ref: 29 CFR 1910.1200 (OSHA)

Name: Ronald T. Cook
Effective Date: 06/01/2007
Changes: General review

Title: Manager, Regulatory Affairs
Supersedes: 06/01/2004

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 herein. Actual conditions of use and handling are beyond sellers control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.

Informative Bulletin

Lot 1C
5

Market Segment:

Building Service Contractors, Education, Food Processing Agricultural, General Manufacturing, Government, Healthcare, Lodging Hospitality, Other, Retail

Product:

GLASS CLEANER

Product Number:

3030, 3261

Main Body:

**General Glass and Hard Surface Cleaner/Polisher
New & Improved Formula**

Product Description:

GLASS CLEANER is a tried and true hard surface and glass cleaner/polisher. Slight formula modifications have recently been made to meet current VOC requirements. Glass Cleaner is blue in color and lightly floral scented.

Fast and Efficient Performance:

Glass Cleaner is formulated with surfactants, which facilitate rapid drying and provide the superior cleaning action needed to remove dirt, grease, and smoke film. Ammonia provides temporary alkalinity, which eliminates filming, and other nonionic wetting agents aid in a streak-free finish. Glass Cleaner performs its tasks with maximum rapidity and minimal effort.

Versatile and Easy to Use:

Glass Cleaner may be used to clean and polish any hard surface not harmed by water such as: window glass, panes and sills; mirrors, countertops, chrome, automobile glass, fluorescent lights and tubing, and any other glass or mirror finish. Glass Cleaner removes tough soils such as: grease, smoke, oils, tape residue, food stains, dust, and dirt. Glass Cleaner is ready to use; simply spray on and wipe off.

Safe and Pleasant to Use:

Glass Cleaner is nonflammable and compliant with the accepted levels of Volatile Organic Compounds (VOCs). The formula is fragranced with a fresh floral scent.

Outperforms the Competition:

Spartan's Glass Cleaner is one of the very best glass and hard surface cleaners available today. The chart below shows how Glass Cleaner outperforms other glass and hard surface cleaners on the market today in the areas of streaking, cleaning, and smearing.

Test Method CSMA method DCC-09.

Clean glass plates are soiled, and then cleaned on a Gardener straight-line washability apparatus. Cleaning performance is rated in three areas, cleaning, streaking and smearing on a 4-point scale

Cleaning

- 4 - Total soil removed
- 3 - Good soil removed
- 2 - Moderate soil removed
- 1 - Poor soil removal

Streaking

- 4 - None
- 3 - Slight streaking
- 2 - Moderate streaking
- 1 - Severe streaking

Smearing

- 4 - None
- 3 - Slight smear
- 2 - Moderate smear
- 1 - Severe smear

TYPICAL GLASS CLEANER

Plate #	Cleaning	Streaking	Smearing
1	3.0	3.0	3.0
2	3.0	3.0	3.0
3	4.0	3.0	2.0
Average	3.3	3.0	2.7

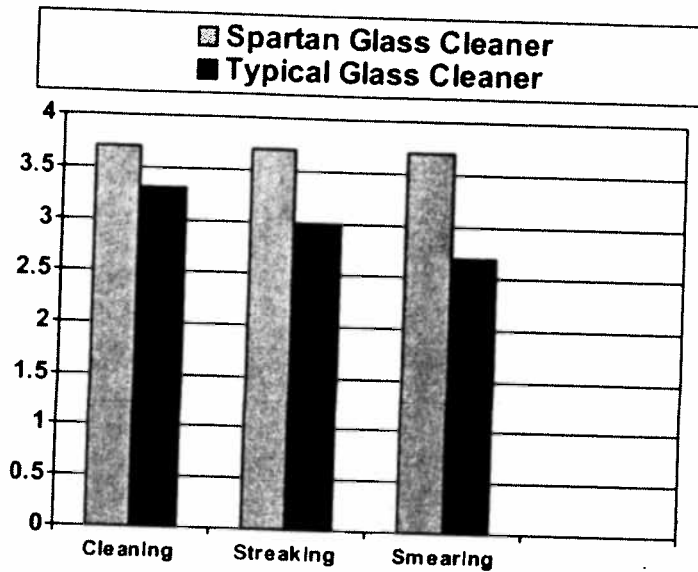
5/5/09

Customer serv.

Ammonia removed.

SPARTAN GLASS CLEANER

Plate #	Cleaning	Streaking	Smearing
1	4.0	4.0	4.0
2	3.0	3.0	3.0
3	4.0	4.0	4.0
Average	3.7	3.7	3.7



Directions for Use:

Some individuals may be sensitive to ingredients in this product. Before use, read product label and MSD sheet. If questions remain, consult your employer or a physician.

1. For maximum cleaning power, use undiluted.
2. For lighter cleaning, dilute up to 1:3 with water. Use a spray bottle for dispensing.
3. Spray in an even pattern directly on to the soiled surface.
4. Wipe dry with a clean, lint-free cloth or paper towel. Turn cloth or towel frequently so clean side is always in use.

NOTE: Do not use on wood furniture or other polished surfaces.

Specification Data:

Density--8.26 lbs./gal @ 24° C/75° F

pH-- 9.5 -10.5

Specific Gravity --0.991

Solvents: Contains Isopropanol

Flash Point (Cleveland Open Cup) --None to boiling

Stability:

- a. Shelf @ 24°C/75°F - one year minimum
- b. Accelerated @ 49°C/120°F - 60 days minimum
- c. Freeze/Thaw - stable; withstands 3 freeze/thaw cycles

Contains biodegradable surfactants

Kosher certification is not required

Packaging:

Glass Cleaner is packaged in the 330-gallon disposable tote, and 275-gallon recyclable tote; attractive HDPE (High Density Polyethylene) 55, 30 and 15-gallon drums; 5-gallon pails; gallons, four per case. For maximum user convenience, Glass Cleaner is available in *RTU Handi Sprays*, 12 quarts per case. Each case of quarts includes three trigger sprayers. Label copy is provided in both English and Spanish. Secondary labels are also available.

Guarantee:

Spartan's modern manufacturing and laboratory control insure uniform quality. If dissatisfied with performance of product, any unused portion may be returned for credit within one year of the date of manufacture. Use product as directed and read all precautionary statements.

Some materials may require special handling or application. Please refer to the appropriate material safety data sheet, literature and label.

8SCC6/04

Sales Tips:



Spartan Chemical Company, Inc.

Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):

INSPECTOR'S CHOICE

Product Number: 3045

Product Division:

Janitorial

Spartan Chemical Company, Inc.

1110 Spartan Drive

Maumee OH 43537

Product/Technical
Information: **1-(800)-537-8990**Medical Emergency: **1-(888)-314-6171 (24 hours)**Chemical Leak/Spill
Emergency: **CHEMTREC 1-(800) 424-9300 (24 hours)**

Shipping Description:	Corrosive liquids, n.o.s., 8, UN 1760, III, (contains sodium hydroxide)		
NFPA Ratings:		HMIS Ratings:	
Health:	3 - Serious	Health:	3 - Serious
Fire:	0 - Minimal	Fire:	0 - Minimal
Reactivity:	0 - Minimal	Reactivity:	0 - Minimal
		Pers. Prot. Equip.:	See Section VIII

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

Chemical Name(s)	% W	CAS Registry No.	Table Z-1 - A			NTP, IARC or OSHA Carcinogen
			TWA mg/m ³	STEL mg/m ³	CEILING mg/m ³	
Sodium metasilicate	1-5	6834-92-0	Not Established	Not Established	Not Established	No
Tetrasodium ethylene diaminetetraacetate	1-5	64-02-8	Not Established	Not Established	Not Established	No
Ethoxylated alcohols phosphate ester	1-5	68130-47-2	Not Established	Not Established	Not Established	No
Alkylbenzene sulfonic acid, sodium salt	1-5	68081-81-2	Not Established	Not Established	Not Established	No
Sodium hydroxide	1-5	1310-73-2	2	Not Established	Not Established	No
Sodium C14-C16 olefin sulfonate	1-5	68439-57-6	Not Established	Not Established	Not Established	No

▼ SECTION III: PHYSICAL DATA

Boiling Point:	> 212 °F	Vapor Pressure:	Unknown
Vapor Density (AIR = 1):	Unknown	Solubility in Water:	Complete
pH:	13.0-13.5	Specific Gravity (H ₂ O=1):	1.06
Evaporation Rate (but.ace.=1):	<1	Percent Solid by Weight:	14-15
Physical State:	Liquid		
Appearance & Odor:	Clear light yellow liquid, soapy odor		

▼ SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point:	> 212°F	Method Used:	ASTM-D56
Flammable Limits:	N/A	Flame Extension:	N/A
Extinguishing Media:	Product does not support combustion. Use extinguishing media appropriate for surrounding fire.		
Special Fire Fighting Procedures:	Wear NIOSH approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.		
Unusual Fire & Explosive Hazards:	Combustion products are toxic.		

▼ SECTION V: HEALTH HAZARD DATA

Threshold Limit Value:	Not Established	Primary Routes of Entry:	Inhalation, Skin Contact, Eyes & Oral
Effects of Overexposure-Conditions to Avoid:	<p>CORROSIVE:</p> <p>Causes eye burns: Causes severe eye damage or irritation with symptoms of pain, redness, swelling of the conjunctiva and possible permanent corneal damage.</p> <p>Causes skin burns: Causes severe skin damage or irritation with symptoms of pain, redness and chemical burns. Harmful contact may not cause immediate pain.</p> <p>Harmful if swallowed: Causes damage or chemical burns to esophagus and mucous membranes with symptoms of pain, nausea, vomiting and diarrhea.</p> <p>Harmful if inhaled: Breathing product vapor or mist may cause irritation or damage of the respiratory tract, with symptoms of nasal discomfort and discharge with chest pain and coughing.</p> <p>Do not get in eyes, on skin or on clothing. Do not breathe product vapors or mist. Do not swallow. Use with adequate ventilation. Wash thoroughly after handling.</p>		
Conditions Aggravated by Use:	Use of this product may aggravate preexisting skin; eye and respiratory disorders including asthma and dermatitis.		

Emergency & First Aid Procedures:

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses. Get medical attention.
Skin:	Remove contaminated clothing and shoes. Flush skin with water for at least 15 minutes. Get medical attention if irritation persists. Wash contaminated clothing before reuse. Destroy contaminated shoes.
Ingestion:	Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting. Drink one or two glasses of water to dilute product. Do not give anything by mouth to an unconscious person.
Inhalation:	In case of respiratory irritation; move person to fresh air. Get medical attention immediately.

▼ SECTION VI: REACTIVITY DATA

Stability:	Stable	Incompatible Materials:	Strong acids and oxidizing agents
Hazardous Decomposition Products:	None known	Hazardous Polymerization:	Will Not Occur

▼ SECTION VII: SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:	Dike and contain spill with inert material (sand, earth, commercial absorbent, etc.) and transfer to containers for disposal. Rinse area with water and flush to sanitary sewer. Keep spill out of storm sewers and waterways.
Waste Disposal Method:	Dispose of in compliance with all federal, state and local laws and regulations.

▼ SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection:	None expected to be required when good general ventilation is provided. However if respiratory irritation occurs, a NIOSH approved respirator suitable for the use conditions and chemicals listed in Section II should be considered.
Ventilation:	Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.
Protective Gloves(Specify Type):	Rubber or other impervious gloves are recommended.
Eye Protection(Specify Type):	Splash goggles are recommended to prevent eye contact.
Other Protective Equipment:	Use of impervious apron, face shield and other protective equipment should be considered in order to prevent or minimize contact with this product. Eye wash stations and washing facilities should be readily accessible. See 29 CFR 1910.132-138.

▼ SECTION IX: SPECIAL PRECAUTIONS

Precautions; Handling & Storing:	Keep container closed when not in use. Store in a cool, dry area. Do not mix with other chemicals.
Other Precautions:	Keep out of reach of children.

© SCC 06/30/2005
INSPECTOR'S CHOICE

Name: Ronald T. Cook
Effective 06/30/2005
Date:

Title: Manager, Regulatory Affairs
Supercedes: 03/15/2005

Ref: 29 CFR 1910.1200 (OSHA) Changes: Update Section IX

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MATERIAL SAFETY DATA SHEET

IN CASE OF EMERGENCY CALL CHEMTREC AT 1-800-424-9300

1. PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION:

Product Name: **PURELL® INSTANT HAND SANITIZER WITH MOISTURIZERS AND VITAMIN E**

Company Name & Address: GOJO Industries, Inc.
 One GOJO Plaza, Suite 500
 Akron, OH 44311

Emergency Phone: **1-800-424-9300 CHEMTREC**

Non-Emergency Phone: (330) 255-6000

MSDS Request Phone: (330) 255-6000 x8804

2. INFORMATION ON INGREDIENTS:

HAZARDOUS INGREDIENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	% RANGE
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	62
Isopropanol	67-63-0	400 ppm	400 ppm	<5

Other ingredient(s) with notification requirements:	CAS NUMBER	List
Ethyl Alcohol	64-17-5	MA 1; NJ 1S; PA 1; CN 2
Isopropanol	67-63-0	MA 1; NJ 1S; CN 1

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW

When used according to instructions, the product applicable to this MSDS is safe and presents no immediate or long-term health hazard. However, abnormal entry routes, such as gross ingestion, may require immediate medical attention.

Potential Health Effects:

HMIS: Health 1 Flammability 3 Reactivity 0 Personal Protection None

Eye Contact: May cause eye irritation.

Skin Contact: No irritation or reaction expected.

Inhalation: Not applicable.

Ingestion: May cause upset stomach, nausea (Abnormal entry route).

Carcinogenicity: Not listed as a carcinogen by NTP, IARC, OSHA or ACGIH.

4. FIRST AID MEASURES:

Eye Contact: Do not rub eyes. Flush eyes thoroughly with water for 15 minutes. If condition worsens or irritation persists, contact physician.

Skin Contact: Not applicable.

Inhalation: Not applicable.

Ingestion: Do not induce vomiting. Contact a physician or Poison Control Center.

5. FIRE FIGHTING MEASURES:

NFPA: Health 0 Fire 3 Reactivity 0
 Flashpoint °F/°C (PMCC method): 86.36°F/30.2°C
 Unusual Fire and Explosion Hazards: Product is flammable due to alcohol content.
 Special Fire Fighting Procedures: None known.
 Extinguishing Media: X Water Fog X Alcohol Foam X CO₂ X Dry Chemical Other

6. ACCIDENTAL RELEASE MEASURES:

Avoid contact with ignition sources since product is flammable. Absorb onto inert material and dispose in appropriate manner. Water clean up and rinse. CAUTION – WILL CAUSE SLIPPERY SURFACES.

7. HANDLING AND STORAGE:

Keep away from fire or flame. Store at normal room temperature away from reach of small children. Keep containers sealed. Use older containers first. Avoid freezing conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Eye Protection: None required under normal conditions.
 Skin Protection: None required under normal conditions.
 Respiratory Protection: None required under normal conditions.
 Ventilation: None required under normal conditions.
 Protective Equipment or Clothing: None required under normal conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance and Odor: Clear liquid, citrus fragrance
 pH (undiluted): 4.5 – 9.5
 VOC, %: 65

10. STABILITY AND REACTIVITY:

Stable/Non reactive product. Avoid ignition sources.

11. TOXICOLOGICAL INFORMATION:

No acute or chronic toxic effects expected when used according to directions.

12. ECOLOGICAL CONSIDERATIONS:

No ecological or special considerations when used according to directions. Not considered environmentally harmful from normal dilution, expected usage and typical drainage to sewers, septic systems and treatment plants.

13. DISPOSAL CONSIDERATIONS:

Characteristic hazardous waste-flammable liquid. Dispose according to local, state and Federal regulations.

14. TRANSPORT INFORMATION:

Hazardous by transport regulations. When transported by Ground and Rail, this product typically is shipped as Consumer Commodity ORM-D. When transported by air, this product is typically shipped as Consumer Commodity or Alcohols N.O.S. depending on package size. When transported by ocean, this product is typically shipped as Limited Quantities. Refer to current regulations for exact requirements.

15. REGULATORY AND OTHER INFORMATION:

TSCA: All ingredients are listed or exempt per reference 15 USC 2602 (2)(B)(iv).
 Complies with current FDA regulations for cosmetic and/or over-the-counter drug products.

Notice: The information herein is based on data considered to be accurate as of the date of preparation of this material safety data sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. The user assumes all liability for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

MATERIAL SAFETY DATA SHEET
MSDS

MSDS 841

ITEM NUMBER: C-841

IDENTITY (As Used On Label and List): Stainless Steel Polish and Cleaner (Oil Based)

EMERGENCY MEDICAL Telephone# 1-800-228-5635 (24 Hrs)
Outside of the U.S.A. Call 651-632-9275

PRODUCT HAZARD RATINGS (NFPA): Health = 2, Fire = 4, Reactivity = 0, Protective Equipment = B
(Rating Legend: 4 = Extreme, 3 = Serious, 2 = Moderate, 1 = Slight, 0 = Minimal)

SECTION I

CLAIRE MANUFACTURING
500 VISTA AVE.
ADDISON, IL 60101

TELEPHONE NUMBER FOR INFORMATION: 1-800-252-4731

DATE PRINTED:
NAME OF PREPARER: Ron Cepa

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Chemical Names	CAS#	SARA Title III SEC 313	ACGIH TLV/TWA	OSHA PEL	% By Wt.
Mineral spirits	64741-65-7	NO	177 ppm*	177 ppm*	20-30
Isoparaffinic Solvent	64741-66-8	NO	NE	400 ppm**	40-50
Mineral oil	8042-47-5	NO	NE	NE	10-20
Propane	68476-85-7	NO	1000 ppm	NE	10-20

* ExxonMobil recommendation ** Exxon recommendation
Balance of ingredients are non-hazardous or below reportable levels.

SECTION III - PHYSICAL CHARACTERISTICS

Boiling Point: NA Vapor Pressure (psig): 600130F
Solubility/Water: Negligible Vapor Density (AIR=1): >1 Specific Gravity (H2O=1): <1.0
Appearance and Odor: Clear with Hydrocarbon Odor Evaporation Rate (Ether=1): <1

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Aerosol Flammability: Product is to be labeled as flammable as described in 16 CFR 1500.3 and 1500.45.
Flashpoint: <0F (Propellant); >80F (Concentrate)
Flammable Limits - % Volume In Air (Propellant): LEL: 2.2 UEL: 9.5
Extinguishing Media: Carbon dioxide, foam and/or dry chemical may be used.
Special Fire Fighting Procedures: Containers should be cooled with water to prevent vapor pressure build up. Use equipment or shielding, as required, to protect personnel from bursting, rupturing or venting containers. Unusual Fire and Explosion Hazards: At elevated temperatures (over 54C-130F) containers exposed to direct flame or heat contact should be cooled with water to prevent weakening of container structure.

SECTION V - REACTIVITY DATA

Stability: Stable Hazardous Polymerization: NA
Incompatibility (Materials to Avoid): Oxidizing agents Hazardous Decomposition Products:
Carbon Monoxide, Carbon Dioxide and additional hazardous chemicals may be formed in small amounts.
Conditions to Avoid: Do not store above 54C-130F. Keep away from heat, direct sunlight, open flames or sparks. Dropping of containers may cause bursting.
Route(s) of Entry - Inhalation: X Eyes: X Skin: X Ingestion:
Signs and Symptoms of Exposure: High vapor concentrations may result in central nervous system depression and evidenced by giddiness, headache and nausea. Ingestion may result in vomiting. Prolonged or repeated skin contact can result in drying and defatting of skin. Moderate eye irritant.
Medical Conditions Generally Aggravated by Exposure: Preexisting skin or eye disorders may be aggravated by exposure to this product.

MATERIAL SAFETY DATA SHEET

MSDS 841

SECTION VI - HEALTH HAZARD DATA

Emergency and First Aid Procedures: Eye Contact: Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention if irritation persists. Skin Contact: Remove contaminated clothing. Flush skin with water, follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention. Ingestion: Get medical attention. (Breathing of vomitus into the lungs must be avoided as even small quantities may result in aspiration pneumonitis). CARCINOGENICITY: No regulated ingredients. TOXICITY INFORMATION: No data available.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Releases or Spilled: Remove all sources of ignition and ventilate area. Soak up spill with an inert absorbent and place into a designated disposal container. Consult local regulatory agency for proper disposition of material.
 Waste Disposal Method: Do not puncture or incinerate containers. When contents are depleted continue to depress button until all gas is expelled. Dispose of container in accordance with local, state, and federal regulations.
 Handling And Storing: Avoid breathing vapor. Keep away from heat and flame. Use with adequate ventilation. Do not puncture or incinerate containers. Do not expose to direct sunlight or store at temperatures above 130F (54C). Store as Level 3 Aerosol (NFPA 30B).
 Other Precautions: Please read and follow the directions on the product label; they are your best guide to using this product in the most effective way, and give the necessary safety precautions to protect your health.

SECTION VIII - EMPLOYEE PROTECTION

Respiratory Protection (Type): None required if good ventilation is maintained. If exposure exceeds occupational exposure limits (Sec. II), use a NIOSH approved respirator to prevent overexposure.
 Ventilation: General ventilation is adequate under normal conditions, mechanical ventilation is optional.
 Protective Gloves: Chemical resistant gloves are recommended - consult glove manufacturer to determine the proper type for a specific operation.
 Eye Protection: Chemical safety glasses are recommended.
 Other Protective Clothing or Equipment: Wear impervious clothing to prevent skin contact.
 Work/Hygienic Practices: Ensure strict sanitary conditions are conformed to when working around chemicals.
 Protective clothing and equipment should be in accordance with 29 CFR 1910.132 and CFR 1910.133.

SECTION IX - OTHER REGULATORY CONTROLS

FEDERAL:
 Toxic Substance Control Act (TSCA): Ingredients of this product are listed on the EPA/TSCA Inventory of Chemical Substances.
 STATE RIGHT-TO-KNOW:

Pennsylvania/New Jersey Right-To-Know (Chemical and CAS No.):

Mineral spirits	64741-65-7
Isoparaffinic Solvent	64741-66-8
Mineral oil	8042-47-5
N-Methylpyrrolidinone	872-50-4
Propane	68476-85-7

SECTION X - TRANSPORTATION REQUIREMENTS (D.O.T. CLASSIFICATION)

Shipping Name: Consumer Commodity Hazard Class: ORM-D
 NG-- Negligible NA-- Not Applicable NE-- Not Established UN-- Unavailable ND-- Not Determined
 While the information set forth herein is believed to be accurate as of the date hereof, the Company makes no warranty or guarantee, express or implied, and disclaims all liability arising out of the use of this information.

EFFECTIVE DATE: 06/15/02

SUPERCEDES: 04/23/01

PREPARED BY: Ron Cepa

K
#4



Victoria Bay 15 oz Stainless Steel Polish & Cleaner



Featured Products

SKU: K01010 12 Cans/Case

Stainless Steel Polish & Cleaner 15 ounce



Larger Image

MSDS

A blend of cleaning solvents, detergents and fine oils for a superior cleaning job on your stainless steel. Cleans, polishes and protects the surfaces without hard rubbing and without an oily residue. With regular care, this product can help prolong the factory finish and will resist fingerprints, grease and water spatter. This product is ideal for other surfaces besides stainless steel. Use sparingly on a clean cloth - a little goes a long way.

AREAS OF USE:

Just because it says Stainless Steel Cleaner, let this product work on your other cleaning surfaces:

- Dishwashers
- Refrigerators
- Freezers
- Elevators
- Escalators
- Doors Trims
- Windows
- Formica
- Porcelain
- Ceramics
- Tile
- Chrome

JUST THE FACTS:

- Contains two special cleaning systems that remove all oil and water based dirt and grime from stainless steel in one application.
- No oily film left behind to attract dirt and fingerprints.



Victoria Bay Ready To Use Liquid Laundry Spotter



Victoria Bay 90% Natural Citrus Cleaner/Degreaser



Victoria Bay Bulldozer All Purpose Cleaner

Recently Viewed

- ◆ Victoria Bay Lemon Furniture Polish
- ◆ Victoria Bay 15 oz Stainless Steel Polish & Cleaner

- Leaves a clear coating on stainless steel that actually repels dirt, grease and fingerprints.
- Is formulated without hazardous chlorinated solvents and is safe to use in any food service area.

UPC: 01713014118416
Item Code: C-841
Biodegradable: No
Can Size: 15 oz Aerosol
Case Cube (ft3): .60
Case Weight: 18 pounds
Color: Clear
Flammability: Flammable as per CPSC Flame Extension Test as described in 16 CFR 1500.45.
Fragrance: Lemon
Inner Pack: 12 cans @15 ounces each per case
Material of Packaging: Stainless Steel
Net Weight: 15 oz
pH Concentrate: N/A
Propellant: Hydrocarbon
Recyclable: Yes
Spray Pattern: Wet, Hollow Cone

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MATERIAL SAFETY DATA SHEET

HAZARD RATINGS
Health: 1
Flammability: 1
Reactivity: 0
Personal Protection: B

NOTICE: Judgment may be based on indirect test and technical literature. The OSHA Hazard Communication Standard only requires MSDS's and special labeling for materials defined as "HAZARDOUS"; see 29 CFR 1910.1200 (c). This document may be about a product which is NOT hazardous but is provided as information for our customers. See references for information.

SECTION I.

PRODUCT IDENTIFICATION

Product Identifier: Alto-Shaam Scale Free

Product VOC: NA

Distributed By: Alto-Shaam, Inc.

W164 N9221 Water Street
Menomonee Falls, WI 53052

Product Identification #(PIF): 2140

Emergency Telephone #: 800-535-5035

General Information #:

Prepared by: Sonya Lockhart

Date Prepared: November 28, 2007

SECTION II.

INGREDIENTS

	CAS #	OSHA/PEL	TLV	STEL	max. %
Contains No Active Hazardous Materials.....					
Citric Acid	77-92-9	NE	NE	NE	95 - 99
Chelating Agent	Proprietary	NE	NE	NE	< 2

SECTION III.

HEALTH HAZARD INFORMATION

.....Primary Routes of Entry: X Skin X Eyes Inhalation Ingestion

◆ *Effects of overexposure:*

-Eye Contact: Can cause irritation.

-Skin Contact: Can cause irritation. Dermatitis may result from repeated exposure.

-Inhalation: Dust may cause respiratory tract irritation.

-Ingestion: May cause irritation to the entire gastrointestinal tract.

SECTION IV.

EMERGENCY FIRST AID

◆ *Eyes:* Flush well with water for at least 15 minutes. Get medical help if irritation persists.

◆ *Skin:* Wash with soap and water.

◆ *Inhalation:* Move to fresh air.

◆ *Ingestion:* Drink lots of water to dilute, **DO NOT INDUCE VOMITING.** Get medical help.

SECTION V.

FIRE & EXPLOSION DATA

Flammability: NOT FLAMMABLE

Means of extinction: Water spray, dry chemicals, CO₂.

Autoignition Temperature: NA

Hazardous combustion products: NONE

Flash Point: NA

Upper Flammability Limit (% by volume): NA

Lower Flammability Limit (% by volume): NA

◆ *Special Fire Fighting Procedures:* Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

◆ *Unusual Fire Fighting Hazard:* In case of fire CO, CO₂ and other potentially toxic fumes.

SECTION VI.

REACTIVITY DATA

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Incompatibility with other substances: Strong alkali and oxidizing agents, organic bases, amphoteric metals.

Reactivity, and under what conditions? Reaction with caustic can create heat (strong exotherm).

Hazardous decomposition products: In case of fire CO, CO₂ and other potentially toxic fumes.

SECTION VII.

HANDLING & STORAGE

Storage: Keep container closed, when not in use. Keep away from heat, flame, or sunlight. Protect from physical damage.

Handling: Do not premix with other chemicals. Exercise reasonable care and precaution.

SECTION VIII.**EXPOSURE CONTROL/PERSONAL PROTECTION**

Personal protective equipment: Gloves and eye protection.

Gloves (specify): Chemical resistant

Eye (specify): Safety goggles

Clothing (specify): Normal materials handling clothing

Respirator (specify): NA

Footwear (specify): NA

Other: NONE

SECTION IX.**SPECIAL PRECAUTIONS/ OTHER COMMENTS**

Carefully read all instructions on label before handling this product.

"FOR INDUSTRIAL & INSTITUTIONAL USE ONLY"

SECTION X.**PHYSICAL DATA**

Boiling point: >212°F

Specific Gravity, (water + 1.0): ND

% Volatile/ volume: 0%

Solubility: 162g/100ml

Description / odor: White powder with no odor.

Vapor Density: (Air = 1): ND

pH, 1%: 1.3

Vapor Pressure: ND

Evaporation Rate: ND

SECTION XI.**TOXICOLOGICAL INFORMATION**

◆ Effects of acute exposure to product: May cause irritation to eyes and skin.

◆ Effects of chronic exposure to product: Repeated use may lead to drying or reddening of skin leading to dermatitis.

SECTION XII.**ECOLOGICAL INFORMATION**

NOT DETERMINED.....

SECTION XIII.**ACCIDENTAL RELEASE MEASURES/ DISPOSAL INFORMATION**

Large spills cannot occur because of packaging. Dam up spills with inert material, neutralize with mild alkali such as lime, then wash to drain, according to local, state and federal regulations. Do not release to open, public waters.

SECTION XIV.**TRANSPORT INFORMATION**

Not regulated by D.O.T.

SECTION XV.**REGULATORY INFORMATION****SARA TITLE II REPORTING REQUIREMENTS**

SECTION 302: Not listed

SECTION 311: Immediate Health Hazard

SECTION 312: Immediate Health Hazard

SECTION 313: Not listed

CERCLA: This product is not reportable.

RCRA: Not Applicable.

SECTION XVI.**ADDITIONAL INFORMATION**

NONE.....

The information contained herein is based on data available to us and is believed to be correct. We make no warranty, however, expressed or implied regarding the accuracy of these data or the results obtained from the use thereof.

Regulatory Standards: DOT TITLE 49, Code of Federal Regulations 172.101: Parts 100 to 177, Revised 10/1/92.
 SUPER FUND AMENDMENTS REAUTHORIZATION ACT OF 1986, TITLE III TOXIC SUBSTANCE CONTROL ACT LIST (TSCA)-
 INGREDIENTS LISTED. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES NATIONAL TOXICOLOGICAL PROGRAM
 (NTP) REPORT OF CARCINOGENS INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS,
 OCCUPATIONAL SAFETY & HEALTH REGULATIONS. CODE OF FED. REGS. FOOD & DRUG, 21 PARTS 170 to 199, Revised 4/1/91,
 173.310.



Kimberly-Clark

KIMCARE General* Golden Lotion Soap Suretouch; Kimberly Clark® Professional Golden Lotion Soap

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name: KIMCARE General* Golden Lotion Soap Suretouch; Kimberly Clark® Professional Golden Lotion Soap

Product Number: 91920

Data Prepared:	7/19/2004
	Kimberly-Clark Corporation 1400 Holcomb Bridge Road Roswell, GA 30076-2199 United States of America
Telephone: MEDICAL EMERGENCY TRANSPORTATION EMERGENCY INFORMATION	1-877-561-6587 Chemtrec 1-800-424-9300 1-888-346-4652

Product Use: Skin/personal cleansing

2. COMPOSITION/INFORMATION ON INGREDIENTS

<i>Chemical Name</i>	<i>CAS-No./EINECS- No.</i>	<i>%</i>	<i>EU Classification (67/548/EEC)</i>
Cocamide DEA	68603-42-9/271-857-0	1-2%	Xi R36/38
Other Ingredients	Proprietary	99-99%	Not applicable

See Section 16 for further information on EU Classification.

8. HAZARDS IDENTIFICATION

Emergency Overview: Clear, yellow liquid with citrus odor. This product is intended for use as a body cleanser and/or shampoo. It is expected to contact the skin and hair. No unusual hazards expected.

EU Classification (1999/45/EC): Not classified as a dangerous substance or preparation.

Medicinal and cosmetic products in the finished form, intended for the final user are not subject the Directive relating to the classification, packaging and labelling of dangerous preparations (1999/45/EC).

US OSHA Classification (29CFR1910.1200): Not Hazardous

Canadian WHMIS Classification: Not a controlled product.



Kimberly-Clark

KIMCARE General* Golden Lotion Soap Suretouch; Kimberly Clark® Professional Golden Lotion Soap

SAFETY DATA SHEET

4. FIRST AID MEASURES

Inhalation: Move to fresh air. Seek medical advice if cough, shortness of breath or other respiratory problems occur.

Skin contact: Wash off excess with water. This product is intended for use on the skin. Seek medical advice if redness, swelling, itching or burning occurs.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention if irritation persists.

Ingestion: Call a physician or Poison Control Centre immediately. Do not induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Flashpoint: Not applicable

Flammable Limits in Air % by Volume:

LEL (Lower): Not applicable

UEL (Upper): Not applicable

Suitable Extinguishing Media: Water, water fog, foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Not required.

Unusual Fire and Explosion Hazards: None.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Clean up excess material and place in container for reclaim, recycle or disposal. Comply with all federal, state and local regulations.

7. HANDLING AND STORAGE

Avoid contact with eyes. Avoid sparks, flame and excessive heat.

Recommended storage temperature 40°F - 100°F (5°C - 37°C).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)

Chemical Name	Exposure limit(s)
Cocamide DEA	None established

Ventilation: No special ventilation normally required. Local exhaust ventilation recommended at points of emission to reduce exposure to fumes and vapors during processing.



Date:
Supersedes:

15 November 2004
19 March 2004

MATERIAL SAFETY DATA SHEET

IN CASE OF EMERGENCY CALL CHEMTREC AT 1-800-424-9300

1. PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION:

Product Name: **GOJO® PINK & KLEAN SKIN CLEANSER**

Company Name & Address: **GOJO Industries, Inc.
One GOJO Plaza, Suite 500
Akron, OH 44311**

Emergency Phone: **1-800-424-9300 CHEMTREC**

Non-Emergency Phone: **(330) 255-6000**

MSDS Request Phone: **(330) 255-8000 x8804**

2. INFORMATION ON INGREDIENTS:

HAZARDOUS INGREDIENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	% RANGE
None				

Other ingredient(s) with notification requirements:	CAS NUMBER	List
Sodium Lauryl Sulfate	151-21-3	CN 1
Ammonium Chloride	12125-02-9	PA 1

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW
When used according to instructions, the product applicable to this MSDS is safe and presents no immediate or long-term health hazard. However, abnormal entry routes, such as gross ingestion, may require immediate medical attention.

Potential Health Effects:

HMIS: Health 1 Flammability 0 Reactivity 0 Personal Protection None

Eye Contact: May cause eye irritation.
Skin Contact: No irritation or reaction expected.
Inhalation: Not applicable.
Ingestion: May cause upset stomach, nausea (Abnormal entry route).
Carcinogenicity: Not listed as a carcinogen by NTP, IARC, OSHA or ACGIH.

4. FIRST AID MEASURES:

Eye Contact: Do not rub eyes. Flush eyes thoroughly with water for 15 minutes. If condition worsens or irritation persists, contact physician.
Skin Contact: Not applicable.
Inhalation: Not applicable.
Ingestion: Do not induce vomiting. Contact a physician or Poison Control Center.

GO GOJOD PINK & KLEAN SKIN CLEANSER

5. FIRE FIGHTING MEASURES:

NFPA: Health 0 Fire 0 Reactivity 0

Flashpoint *F/C (PMCC method): Not determined.

Unusual Fire and Explosion Hazards: None known.

Special Fire Fighting Procedures: None known.

Extinguishing Media: Water Fog Alcohol Foam CO₂ Dry Chemical Other

6. ACCIDENTAL RELEASE MEASURES:

No special requirements. Water clean up and rinse. CAUTION - WILL CAUSE SLIPPERY SURFACES.

7. HANDLING AND STORAGE:

Store at normal room temperature away from reach of small children. Keep containers sealed. Use older containers first. Avoid freezing conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Eye Protection: None required under normal conditions.

Skin Protection: None required under normal conditions.

Respiratory Protection: None required under normal conditions.

Ventilation: None required under normal conditions.

Protective Equipment or Clothing: None required under normal conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance and Odor: Pink pearlescent liquid, light floral fragrance

pH (undiluted): 4.5 - 9.5

VOC, %: 0

10. STABILITY AND REACTIVITY:

Stable/Non reactive product.

11. TOXICOLOGICAL INFORMATION:

No acute or chronic toxic effects expected when used according to directions.

12. ECOLOGICAL CONSIDERATIONS:

No ecological or special considerations when used according to directions. Not considered environmentally harmful from normal dilution, expected usage and typical drainage to sewers, septic systems and treatment plants.

13. DISPOSAL CONSIDERATIONS:

No special considerations when disposed according to local, state and Federal regulations.

14. TRANSPORT INFORMATION:

Not classified as a hazardous material.

15. REGULATORY AND OTHER INFORMATION:

TSCA: All ingredients are listed or exempt per reference 15 USC 2602 (2)(B)(iv).

Complies with current FDA regulations for cosmetic and/or over-the-counter drug products.

Notice: The information herein is based on data considered to be accurate as of the date of preparation of this material safety data sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. The user assumes all liability for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

1. PRODUCT AND COMPANY IDENTIFICATION

NAME: READY-TO-USE FREEZER CLEANER

USE: FREEZER CLEANER

LABEL BRAND: ARRAY

MSDS # 101202R GFS REORDER # 612928 CODE # 4343334

US CHEMICAL, 316 HART STREET, WATERTOWN, WI 53094 USA
 MEDICAL EMERGENCY #: 1-866-923-4913 USA
 SPILL EMERGENCY #: 1-800-424-9300 USA
 PRODUCT INFORMATION #: 1-800-558-9566 (8 A.M. TO 5 P.M. CST MONDAY TO FRIDAY)
 INTERNET ADDRESS: WWW.USCHEMICAL.COM
 REVIEWED 6-5-13 REVISED 6-5-13 SECTION REVISED: 1

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: CAUTION! MAY BE MILDLY IRRITATING TO EYES.

PRINCIPLE ROUTES OF EXPOSURE: EYES, INGESTION

POTENTIAL ACUTE HEALTH EFFECTS

EYES: MAY BE MILDLY IRRITATING TO EYES.

SKIN: PROLONGED EXPOSURE TO CONCENTRATE MAY CAUSE MILD IRRITATION TO HIGHLY SENSITIVE SKIN.

INHALATION: NONE KNOWN.

INGESTION: MAY CAUSE ABDOMINAL DISCOMFORT, NAUSEA, VOMITING AND DIARRHEA.

MEDICAL CONDITIONS AGGRAVATED: PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTABLE TO IRRITATING EFFECTS.

3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS #	% BY WT	LC50/LD50
NONE	N.AP.	N.AP.	N.AV.

STATE RIGHT TO KNOW: THIS PRODUCT CONTAINS:
 PROPYLENE GLYCOL/57-55-6, WATER/7732-18-5, ALCOHOL ETHOXYLATE/68439-46-3

4. FIRST AID MEASURES

Page 2 of 4

EYES: FLUSH IMMEDIATELY WITH PLENTY OF WATER. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

SKIN: FLUSH IMMEDIATELY WITH PLENTY OF WATER. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

INHALATION: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED.

INGESTION: DO NOT INDUCE VOMITING. IF PATIENT IS CONSCIOUS AND CAN SWALLOW, ADMINISTER MILK OR WATER.

ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-866-923-4913 OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS.

NOTE TO PHYSICIAN: CALL 1-866-923-4913 FOR ASSISTANCE WITH THE MANAGEMENT OF EXPOSURES.

5. FIRE-FIGHTING MEASURES

FLAMMABILITY: NO HAZARD.

FLASH POINT: N.A.P.

PRODUCTS OF COMBUSTION: SEE SECTION 10.

SUITABLE EXTINGUISHING MEDIA: FOR FIRES IN AREA, USE APPROPRIATE MEDIA. FOR EXAMPLE: WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, OR ALCOHOL FOAM.

SPECIFIC HAZARDS: N.A.P.

SPECIFIC METHODS: NORMAL FIRE FIGHTING PROCEDURES MAY BE USED.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: SEE SECTION 8.

SPILL RESPONSE: EVACUATE UNPROTECTED PERSONNEL FROM AREA. WEAR PROPER PROTECTIVE EQUIPMENT INCLUDING RUBBER BOOTS. VENTILATE AREA IF NEEDED. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. DIKE OR DAM LARGE SPILLS. AVOID DIRECT DISCHARGE TO SEWER AND SURFACE WATERS. PUMP TO CONTAINER OR SOAK UP WITH NON-COMBUSTIBLE INERT ABSORBENT MATERIALS. AFTER SPILL COLLECTION, FLUSH AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES. BE CAREFUL AS SPILLS ARE SLIPPERY.

7. HANDLING AND STORAGE

HANDLING: FOLLOW ALL LABEL DIRECTIONS. INSTRUCT PERSONNEL ABOUT PROPER USE, HAZARDS, PRECAUTIONS, AND FIRST AID MEASURES.

AVOID INGESTION AND CONTACT WITH EYES. DO NOT TASTE OR SWALLOW.

PRODUCT RESIDUE MAY REMAIN ON OR IN EMPTY CONTAINERS.

HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER.

STORAGE: ROTATE STOCK REGULARLY. KEEP CONTAINER CLOSED WHEN NOT IN USE.

AVOID TEMPERATURES BELOW 35°F OR ABOVE 120°F. PROTECT FROM FREEZING.

STORAGE AT AMBIENT TEMPERATURES IN A DRY AREA OUT OF DIRECT SUNLIGHT IS

RECOMMENDED. KEEP AWAY FROM FOOD AND DRINK. KEEP OUT OF CHILDREN'S REACH.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: N.A.V.

ENGINEERING CONTROLS: NONE REQUIRED. GENERAL ROOM VENTILATION IS ADEQUATE.

PERSONAL PROTECTION

EYES: NONE REQUIRED WITH NORMAL USE.

HANDS: FOR PROLONGED OR REPEATED CONTACT WITH SKIN: RUBBER GLOVES.

RESPIRATORY: N.A.P.

FEET: N.A.P.

BODY: N.A.P.

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR: GREEN

ODOR: NONE ADDED

pH CONCENTRATE: 9.8

pH @ 2500 PPM SOLUTION: N.A.P.

pH @ USE DILUTION: N.A.P.

PHYSICAL STATE: LIQUID

SPECIFIC GRAVITY: 1.040

VISCOSITY: NON-VISCOUS

BOILING POINT: N.A.P.

MELTING POINT: N.A.P.

FLASH POINT: N.A.P.

UEL: N.A.P.

LEL: N.A.P.

EVAPORATION RATE: N.A.P.

ODOR THRESHOLD: N.A.P.

VAPOR PRESSURE: N.A.P.

VAPOR DENSITY: N. AP.

COEFF. OIL/WATER: N.A.P.

WATER SOLUBILITY: COMPLETE

OTHER: N.A.P.

10. STABILITY AND REACTIVITY

STABLE: YES

CONDITIONS TO AVOID: AVOID TEMPERATURES BELOW 35°F OR ABOVE 120°F.

MATERIALS TO AVOID: AVOID MIXING DIRECTLY WITH ANY OTHER CLEANING PRODUCT. AVOID OXIDIZING AGENTS INCLUDING BLEACH. MIX ONLY WITH WATER.

DECOMPOSITION PRODUCTS: FIRE OR MIXING WITH INCOMPATIBLE MATERIALS MAY PRODUCE OXIDES OF CARBON AND OTHER TOXIC OR IRRITATING FUMES.

POSSIBILITY OF HAZARDOUS REACTIONS: N.A.P.

11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS: SEE SECTION 2.

CHRONIC EFFECTS: NONE KNOWN. NO REPORTABLE CARCINOGENS, MUTAGENS, SENSITIZERS, SYNERGISTIC MATERIALS, TERATOGENS, OR REPRODUCTIVE TOXINS.

LC50/LD50: N.A.V.

TARGET ORGANS: NONE KNOWN.

OTHER TOXIC EFFECTS: NONE KNOWN.

12. ECOLOGICAL INFORMATION

Page 4 of 4

NOT AVAILABLE.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS. CONSULT STATE AND LOCAL AUTHORITIES FOR RESTRICTIONS ON DISPOSAL OF CHEMICAL WASTE. MANAGE CHEMICAL WASTES THROUGH AN APPROVED WASTE TREATMENT FACILITY. DO NOT REUSE EMPTY CONTAINER. RINSE EMPTY CONTAINER THOROUGHLY WITH WATER BEFORE DISCARDING CONTAINER IN ACCORDANCE WITH CURRENT LOCAL COMMUNITY CODES. PLEASE RECYCLE EMPTY CONTAINER WHENEVER POSSIBLE.

14. TRANSPORT INFORMATION

DOT/TDG: NOT REGULATED
DOT RQ: N.AP.
DOT ERG #: N.AP.

15. REGULATORY INFORMATION

EPA CERCLA RQ: N.AP.
EPA REGISTERED: NO
OSHA HAZARDOUS: NO
PHOSPHORUS CONTENT: SEE LABEL
PROPOSITION 65: N.AP.
SARA 311/312 HAZARDS: N.AP.
SARA 313 CHEMICALS: N.AP.
STATE RIGHT TO KNOW: SEE SECTION 3 FOR STATE RTK CHEMICAL NAMES.
TSCA INVENTORY STATUS: ALL COMPONENTS ARE LISTED ON THE INVENTORY.
VOC: 0.00% CALCULATION METHOD USED IS BASED ON CALIFORNIA ARB STANDARD.
WHMIS CLASS: NOT CONTROLLED.

16. OTHER INFORMATION

NFPA RATING: HEALTH-1/FLAMMABILITY-0/REACTIVITY-0/SPECIAL HAZARD-N.AP.
HMIS RATING: HEALTH-1/FLAMMABILITY-0/REACTIVITY-0/PERSONAL PROTECTION-SEE 8.0

N.AV. = NOT AVAILABLE N.AP. = NOT APPLICABLE

PREPARED BY: HEALTH AND SAFETY

NOTICE TO READER

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MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: GOO GONE
Product Code: GG89,GG89ST
Supplier: THE HOMAX GROUP, INC
Address: 200 WESTERLY ROAD
BELLINGHAM, WA 98226
Telephone: (800) 321-6330 M-F, 9-5 EST
Emergency: CHEMTREC 24 HR (800) 424-9300
Date: MAY 16, 2011

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>Percent</u>	<u>CAS #</u>
Distillates (petroleum), hydrotreated light	< 95	64742-47-8
Tripropylene glycol methyl ether	1 - 10	25498-49-1
Citrus extracts blend	1 - 10	94266-47-4 / 8028-48-6

*The ingredients in the balance of this product do not contribute significant hazards beyond those described in this document. All pertinent health, safety and environmental information has been presented, per the requirements of the US Federal OSHA Hazard Communication Standard (29CFR 1910.1200).

SECTION 3 - HAZARDS IDENTIFICATION

Potential Health Effects:

Acute Effects:

Eye: Causes eye irritation.

Skin: Contact may cause irritation. Prolonged or repeated contact may cause drying or cracking.

Ingestion: Symptoms may include headache, nausea, drowsiness, pneumonitis, pulmonary edema, central nervous system depression, convulsions and loss of consciousness. **ASPIRATION HAZARD.** Harmful or fatal if aspirated into lungs.

Inhalation: May cause headache, nausea, drowsiness, central nervous system depression, convulsions and loss of consciousness.

Chronic Effects:

Carcinogenicity: No components listed by IARC, NTP, or OSHA as carcinogens.

SECTION 4 - FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and seek medical attention.

Skin: Immediately flush with mild soap and water for 15 minutes. Seek medical attention if irritation develops. Remove contaminated clothing and launder before reuse.

Eye: Immediately flush with water for 15 minutes. Seek medical attention.

Ingestion: Do not induce vomiting. Get immediate medical care.

MATERIAL SAFETY DATA SHEET

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: 186 F (86 C)

Autoignition Temperature : > 450 F

Extinguishing Media: Foam, carbon dioxide, and dry chemical.

Special Fire Fighting Procedures: Evacuate personnel to a safe area. Keep containers cool with water spray. Avoid breathing decomposition products. Wear self-contained breathing apparatus and full body protection.

Hazardous Decomposition Products: Thermal decomposition includes oxides of carbon and other asphyxiants.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: Evacuate area and turn off all sources of ignition. Ventilate area. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing. Dispose of collected material in accordance with federal, state and local requirements.

SECTION 7 - HANDLING AND STORAGE

Store in original container. Keep container tightly closed when not in use and in an upright position. Do not store at elevated temperatures and away from incompatible materials. For industrial use only.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Not normally required. Insure general dilution ventilation is adequate.

Respiratory protection: Not normally required. Avoid breathing vapor or spray mists.

Eye protection: Use chemical goggles or glasses with side shields.

Skin protection: Use chemical resistant gloves.

Other protective clothing or equipment: Eye wash, Safety Shower, Full Protective Clothing.

Work Hygienic Practices: The usual precaution for the handling of chemicals must be observed.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow liquid
Odor:	Citrus
Specific Gravity (H₂O = 1):	0.8
Solubility In Water:	Negligible
Vapor Pressure:	No data available
Vapor Density:	No data available
Boiling Point:	> 430 F
pH:	No applicable
VOC:	2% by CARB Definition for Consumer Products

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: Sources of ignition.

Incompatible Materials: Avoid contact with oxidizers.

Hazardous Decomposition Products: Thermal decomposition includes oxides of carbon and other asphyxiants.

Hazardous Polymerization: Will not occur.

MATERIAL SAFETY DATA SHEET

SECTION 11 - TOXICOLOGICAL INFORMATION

THIS PRODUCT WAS NOT TESTED. THE FOLLOWING IS COMPONENT DATA:

Distillates (petroleum), hydrotreated light (64742-47-8): Acute Ingestion Toxicity: LD50 > 15000 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

THIS PRODUCT WAS NOT TESTED. THE FOLLOWING IS COMPONENT DATA:

Distillates (petroleum), hydrotreated light (64742-47-8):

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

Material -- Not expected to demonstrate chronic toxicity to aquatic organisms.

MOBILITY

Material -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

PERSISTENCE AND DEGRADABILITY

Biodegradation: Material -- Expected to be readily biodegradable.

Hydrolysis: Material -- Transformation due to hydrolysis not expected to be significant.

Photolysis: Material -- Transformation due to photolysis not expected to be significant.

Atmospheric Oxidation: Material -- Expected to degrade rapidly in air

SECTION 13 - DISPOSAL CONSIDERATIONS

Follow federal, provincial or state and local government requirements for disposal.

SECTION 14 - TRANSPORT INFORMATION

U.S. DOT (Road or Rail):

Not Regulated

AIR / WATER / INTERNATIONAL TRANSPORT:

No data available

SECTION 15 - REGULATORY INFORMATION

SARA 302 Chemicals: None of the ingredients are listed.

SARA 313 Chemicals: None of the ingredients are listed.

Toxic Substances Control Act (TSCA): All the ingredients are listed on the inventory

Canadian Domestic Substance List (DSL): All ingredients are listed.

California Prop. 65 Components: None

OSHA & WHMIS: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act).

SECTION 16 - OTHER INFORMATION

HMIS RATING: HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0

THIS PRODUCT IS SOLD TO CONSUMERS FOR HOUSEHOLD USE IN CONTAINERS OF RELATIVELY SMALL VOLUME (I.E. 5 GALLON OR LESS IN SIZE). THIS MSDS HAS BEEN DEVELOPED TO ADDRESS SAFETY

MATERIAL SAFETY DATA SHEET

CONCERNS AFFECTING THOSE INDIVIDUALS WORKING IN WAREHOUSES AND OTHER PLACES WHERE LARGE NUMBERS OF THESE CONTAINERS ARE STORED, AS WELL AS THOSE AFFECTING POTENTIAL USERS OF THIS PRODUCT IN INDUSTRIAL /OCCUPATIONAL SETTINGS. ALL PERTINENT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION HAVE BEEN PRESENTED IN THIS DOCUMENT, PER THE REQUIREMENTS OF THE US FEDERAL OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) AND CANADIAN WHMIS.

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MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	CombiTherm Cleaning Tabs
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PRODUCT CODE	CE-28892
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ISSUE DATE	12-02-2008
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SUPERCEDES	
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DISTRIBUTED BY: **Alto-Shaam**
STREET ADDRESS W164 N9221 Water St.
CITY, STATE ZIP Menomonee Falls, WI 53052
PHONE (800) 558-8744

EMERGENCY TELEPHONE NUMBER
 1-800-535-5053

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS No.	OSHA PEL/TLV	EXPOSURE LIMITS		OTHER LIMITS
			ACGIH TLV	STEL	
Sodium metasilicate	6834-92-0	NE	NE	NE	NA

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	Causes eye and some skin irritation Harmful if swallowed Harmful if inhalation exposure limits are exceeded.
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POTENTIAL HEALTH EFFECTS	
INGESTION	Irritation of mucous membranes
INHALATION	Irritation of mucous membranes
EYE CONTACT	Over exposure may cause severe irritation.
SKIN CONTACT	Over exposure may cause severe irritation.

SECTION 4 – FIRST AID MEASURES

INGESTION	Drink large amounts of water or milk. DO NOT INDUCE VOMITING. See a physician immediately.
INHALATION	If difficulty in breathing occurs, leave area immediately and do not return until dust has settled. If irritation persists see a physician.
EYE CONTACT	Flush eyes with water for at least 15 minutes. See a physician immediately.
SKIN CONTACT	Flush skin with water. Remove contaminated clothing and do not re-wear until washed. If irritation persists see a physician.
NOTE TO PHYSICIAN	Treatment based on judgment of the physician in response to reactions of the patient.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT / METHOD	N/A	FLAMMABLE LIMITS	N/K
% VOLATILE	N/A		
EXTINGUISHING MEDIA	Water mist, alcohol foam, dry chemical		
SPECIAL FIRE FIGHTING PROCEDURES	Firefighters should wear a self-contained breathing apparatus as in all chemical fires.		
FIRE AND EXPLOSION HAZARDS	NONE		

SECTION 6 – ACCIDENTAL RELEASE MEASURES

RESPONSE TO SPILLS	Sweep up and collect spilled material taking care not to raise dust.
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SECTION 7 – HANDLING AND STORAGE

HANDLING PRECAUTIONS	Wash hands before eating. Keep container tightly closed when not in use.
STORAGE PRECAUTIONS	Store in cool dry place.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTIONS

HYGIENIC PRACTICES	Normal procedures for good hygiene. Observe label precautions. Use personal protection equipment.
ENGINEERING CONTROLS	Use general mechanical ventilation to remove vapors at the source. Eyewash station is recommended.

	RESPIRATOR	Not required if dusting does not occur. NIOSH mask if needed.
X	GOGGLES / FACE SHIELD	Required: goggles should be chemical splash type
	APRON	Not required
X	GLOVES	Required: PVC, Neoprene or Nitrile acceptable
	BOOTS	Not required

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	White powder	BOILING POINT	N/A
ODOR	N/A	VAPOR PRESSURE	N/A
pH 1%	11.8	VAPOR DENSITY	N/A
SPECIFIC GRAVITY	N/A	EVAPORATION RATE (butyl acetate=1)	N/A
SOLUBILITY IN WATER	N/A		

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY		STABLE	X	UNSTABLE	
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CONDITIONS TO AVOID	Moisture, elevated temperatures					
INCOMPATIBILITY	Strong acids					
HAZARDOUS PRODUCTS OF DECOMPOSITION	Oxides of carbon					
POLYMERIZATION		WILL NOT OCCUR	X		MAY OCCUR	
CONDITIONS TO AVOID						

SECTION 11 – TOXICOLOGICAL INFORMATION

CARCINOGENICITY

	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
X	THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910,Z

OTHER EFFECTS

ACUTE	Dust is irritating to eyes and mucous membranes
CHRONIC	None known
ORAL LD/50	Unknown

SECTION 12 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	Flush diluted material to sewer.
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SECTION 13 – TRANSPORT INFORMATION

DOT CLASSIFICATION		HAZARDOUS			NOT HAZARDOUS	X
DESCRIPTION	N/A					
Alto-Shaam HM CODE	000					

SECTION 14 – OTHER INFORMATION

HMIS CLASSIFICATION

2	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
0	YELLOW	REACTIVITY
None	WHITE	SPECIAL HAZARD

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by Alto-Shaam in connection with the use of this information.

MATERIAL SAFETY DATA SHEET

Complies with OSHA'S Hazard Communication Standard 29 CFR 1910 1200

DATE PREPARED 11-30-2011

SECTION 1. PRODUCT IDENTIFICATION

PRODUCT NAME: STERAMINE 1-G TABLETS
EPA REG. NO.: 1561-11 This product is registered and regulated by EPA under FIFRA and Regulated by FDA under subpart F of The Food Additives Amendment.
PRODUCT USE: Tablets are dissolved in water to provide sanitizing solutions for food contact Surface sanitizing in the food service industry.
DISTRIBUTOR: Edwards-Councilor Co., Inc. EMERGENCY PHONE NO: (800)424-9300
1427 Baker Road PHONE FOR INFORMATION: (757)460-2401
Virginia Beach, VA 23455

SECTION 2. HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT CHEMICAL NAME: (COMMON NAME)	C.A.S. NUMBER	% PRESENT	TLW UNITS
ALKYL (C14 95%, C12 3%, C16 2%) DIMETHYL BENZYL AMMONIUM CHLORIDE DIHYDRATE (QUATERNARY AMMONIUM COMPOUND-MYRISTALKONIUM CHLORIDE)	68424- 85-1	50%	N/A

RCRA HAZARDOUS WASTE CLASS: NON HAZARDOUS
EPA PRIORITY POLLUTANTS: NONE
DOT HAZARD CLASS: NON HAZARDOUS



SECTION 3. PHYSICAL DATA

PHYSICAL FORM: SOLID (TABLET) BOILING PT. N/A
APPEARANCE AND ODOR: WHITE, ODORLESS TABLET SPECIFIC GRAVITY: N/A
SOLUBILITY IN WATER: SOLUBLE FLASH PT. PMCC: > 200° F
VOLATILES: NON VOLATILE MELTING PT. > 125° F

SECTION 4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT, PMCC: >200° F FLAMMABLE LIMITS: UNDETERMINED
EXTINGUISHING MEDIA: WATER SPRAY, CARBON DIOXIDE, DRY CHEMICALS, FOAM
SPECIAL FIRE FIGHTING PROCEDURES: NONE
UNUSUAL FIRE AND EXPLOSION HAZARD: NONE
HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: CARBON MONO/DIOXIDE

SECTION 5. REACTIVITY DATA

STABILITY: STABLE
INCOMPATIBILITIES TO AVOID: STRONG OXIDIZING AGENTS
HAZARDOUS POLYMERIZATION WILL NOT OCCUR
CONDITIONS TO AVOID: CONTAMINATION OF FOOD

SECTION 6. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: NOT ESTABLISHED

PRIMARY ROUTES OF EXPOSURE: EYES: UNLIKELY ORAL INGESTION: YES
SKIN: UNLIKELY INHALATION: UNLIKELY

THIS PRODUCT, BEING IN SOLID, TABLET FORM, IS UNLIKELY TO PRESENT A HAZARD IN HANDLING TO THE SKIN OR EYES. HOWEVER IF TABLETS ARE CRUSHED AND DUST IS CREATED, THE DUST MAY BE IRRITATING TO THE EYES AND IRRITATING TO THE SKIN IF CONTACT IS PROLONGED. ORAL INGESTION MAY BE HARMFUL.

EMERGENCY AND FIRST AID PROCEDURES:

EYES AND SKIN: IF TABLET DUST GETS IN EYES OR ON SKIN, FLUSH WITH PLENTY OF WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INGESTION: IF TABLETS ARE SWALLOWED, DRINK PROMPTLY A LARGE QUANTITY OF WATER, AVOID ALCOHOL. GET MEDICAL ATTENTION IMMEDIATELY.

NOTE TO PHYSICIAN: PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE. MEASURES AGAINST CIRCULATORY SHOCK, RESPIRATORY DEPRESSION AND CONVAULSION MAY BE NEEDED.

INHALATION PROCEDURE: SAME AS FOR INGESTION

TOXICITY: ACUTE ORAL TOXICITY IN MICE IN 24 HOURS:
LD 50 mg/kg = 760 ± 146

NOTE: INDIVIDUAL TABLETS WEIGH 1.5 GRAMS
TABLETS CONTAIN AN INGREDIENT THAT TASTES EXTREMELY BITTER, ESPECIALLY TO CHILDREN. TO HELP REDUCE THE CHANCE OF ACCIDENTAL INGESTION OF ENOUGH TABLETS TO BE HARMFUL.

SANITIZING SOLUTIONS PRODUCED WITH THESE TABLETS AT THE CONCENTRATION LEVEL SPECIFIED BY LABEL DIRECTIONS ARE CONSIDERED TO BE NON HAZARDOUS TO MAN OR THE ENVIRONMENT AND ARE IN COMPLIANCE WITH REGULATIONS OF THE EPA AND FDA.

THERE ARE NO CHEMICALS CONTAINED IN THIS PRODUCT THAT ARE LISTED AS CARCINOGENS OR POTENTIAL CARCINOGENS UNDER THE NATIONAL TOXICOLOGY PROGRAM, I.A.R.C. MONOPGRAPHS, OR OSHA.

SECTION 7. SPILL OR LEAK PROCEDURES

THIS PRODUCT, BEING IN SOLID, TABLET FORM, DOES NOT INVOLVE THE HAZARDS OF SPILLS OR LEAKS ASSOCIATED WITH HANDLING LIQUID OR POWDERED TYPE PRODUCTS.

WASTE DISPOSAL METHOD: THIS PRODUCT IS INTENDED FOR USE IN COMMERCIAL AND INSTITUTIONAL DISHWASHING OPERATIONS AND MAY BE DISPOSED OF WITH WASH WATER INTO THE SANITARY SEWAGE SYSTEM. PRODUCT IS BIODEGRADABLE. DO NOT REUSE EMPTY CONTAINER, WRAP CONTAINER AND PUT IN TRASH.

RCRA HAZARDOUS WASTE CLASS: NON-HAZARDOUS

SECTION 8. SPECIAL PROTECTION / HANDLING INFORMATION

RESPIRATORY PROTECTION: NO PROTECTIVE CLOTHING / GLOVES: NO
VENTILATION: NO EYE PROTECTION: NO

OTHER HANDLING PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN

STORAGE: STORE IN DRY PLACE. KEEP CONTAINER CLOSED WHEN NOT IN USE.

DO NOT CONTAMINATE FOOD BY STORAGE OR DISPOSAL.

SECTION 9. SARA TITLE III

THIS PRODUCT IS NOT SUBJECT TO THE TOXIC CHEMICAL REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

Alachua County Public Schools Food and Nutrition Service's Approved Chemical List

Description	Item Code	Unit Price	Per oz. cost	Unit	Where to use
Gordon Food Service Chemicals					
Cleaner, Bleach (Array)	012950	\$10.16	\$0.01	6/1 gal	Use to sanitize only, at 50 ppm. Never use on stainless steel equipment, OK for cafeteria or prep. table tops. Can use to clean toilets.
Cleaner, Sanitizer Eco San (Ecolab)	012982	\$72.34	\$0.15	4/1 gal	Use only in the dish machine. <i>Dispenser required.</i>
Detergent, Pantastic (Ecolab)	012995	\$51.11	\$0.10	4/1 gal	Use as a cleaner for wash sink, in buckets for washing down surfaces, inside equipment (Tilt skillet, combi, steamer, warmers, sinks, milk boxes, reach-ins, shelving, dishes) to wipe up debris. <i>Dispenser required.</i>
Cleaner, Oven and Grill Cleaner(Array)	012951	\$21.88	\$0.23	6/20oz	Use on convection ovens only.
Detergent, Solid Power (Ecolab)	012987	\$86.24	\$17.00	4/9lbs	Use only in the dish machine. <i>Dispenser required.</i>
Disinfectant, Deodorant Aerosol (Array)	013010	\$22.05	\$0.34	6/14 oz.	Use to deodorize.
Delimer, Lime Away (Ecolab)	012965	\$34.26	\$0.07	4/1 gal	Dish machine use "ONLY" <u>DO NOT USE ON ANY OTHER EQUIPMENT.</u>
Vinegar , White Distilled	011750	\$7.56	\$0.01	4/1 gal	3:1 ratio (vinegar to water) spray inside combi., tilt skillet, warmer, warmer and steamer. Leave for 15-20 min. Rinse with water.
Wash and Walk (Ecolab)	012970	\$68.72	\$0.22	2.5 gal	Use only on floors. Never use any other chemical on floors this product is an enzyme and will not work if other chemicals are introduced. <i>Dispenser required.</i>
Freezer Floor Cleaner (Array)		\$25.97	\$0.20	1 gal	Use on freezer floor only.
Warehouse Chemicals					
Alcohol, Isopropyl (Swan)	94100.00	\$ 1.60	\$ 0.10	Pint	Use for first aid purposes only.
Liquid Cream Cleanser (Victoria Bay)	61240.020	\$1.69	\$0.01	Bottle	Use for toilets, bathroom sink, hand sinks (porcelain), walls (similar to liquid comet). Do not use on stainless steel.
Cleaner, Glass Ready Mixed (Spartan)	61220.000	\$4.10	n/a	Gallon	Cleans glass (serving line glass, mirrors, glass front refrig.)
Inspector's Choice Degreaser (Spartan)	61560.001	\$5.32	\$0.04	Gallon	Convection ovens only! <u>DO NOT USE ON ANY OTHER EQUIPMENT.</u>
Hand Sanitizer, GoJo Green	62525.00	\$34.02		Carton	Not a substitute for hand washing. <i>Dispenser required</i>
Polish, Cleaner Stainless Steel (15 oz.) (Victoria Bay)	65206.001	\$2.23	\$0.15	Can	Use on stainless steel only
Scale Free (Alto Shaam)	7240	\$38.74	\$0.61	Bottle	In spray bottles mix 2 oz. with 1 quart of water. Spray in steamer, combi, tilt skillets, and proofers ONLY
Hand Soap, GoJo Green	65800.012	\$18.21		Carton	Hand washing stations. <i>Dispenser required</i>
Goo Gone (Homax Group)		Locally		Sourced	Use to remove adhesive from equipment

** Oil Flat top range 1/week with vegetable oil.

** When using chemicals that might splash, you are required to use eye protection.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SANITIZING WASH N WALK
 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 : 02/03/2015

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Product AS SOLD

Acute toxicity (Inhalation) : Category 4
 Acute toxicity (Dermal) : Category 4
 Serious eye damage : Category 1
 Skin sensitization : Category 1

Product AT USE DILUTION

Eye irritation : Category 2B

GHS Label element

Product AS SOLD

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : Harmful in contact with skin or if inhaled.
 May cause an allergic skin reaction.
 Causes serious eye damage.

Precautionary Statements : **Prevention:**
 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear eye protection/ face protection. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Response:
 IF ON SKIN: Wash with plenty of soap and water. 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

SAFETY DATA SHEET

SANITIZING WASH N WALK

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.

Disposal:

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

Product AT USE DILUTION

Signal Word : Warning

Hazard Statements : Causes eye irritation.

Precautionary Statements : **Prevention:**
Wash skin 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 advice/ attention.

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product AS SOLD

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
Propylene glycol	57-55-6	5 - 10
Boric acid	10043-35-3	1 - 5
Fattyalcohol ethoxylates > 5EO	68131-39-5	1 - 5
N,N-Bis(3-aminopropyl)laurylamine	2372-82-9	2.06
boric acid (h3bo3), compd. with 2-aminoethanol (1:1)	68586-07-2	1 - 5
Alkylpolyglycosides	110615-47-9	1 - 5
amines, coco alkyl dimethyl, n-oxides	61788-90-7	1 - 5
lipase, triacylglycerol	9001-62-1	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.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

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

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

SAFETY DATA SHEET

SANITIZING WASH N WALK

- Notes to physician : Treat symptomatically.
- Most important symptoms and effects, both acute and delayed : See Section 11 for more detailed information on health effects and symptoms.

Product AT USE DILUTION

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

SECTION 5. FIRE-FIGHTING MEASURES

Product AS SOLD

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials:
Carbon oxides
Nitrogen oxides (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 : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not

SAFETY DATA SHEET

SANITIZING WASH N WALK

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 : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Product AS SOLD

- Advice on safe handling : Do not get in eyes, on skin, or on clothing. 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 : 0 °C to 40 °C

Product AT USE DILUTION

- Advice on safe handling : Wash hands thoroughly after handling.
- 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
Boric acid	10043-35-3	TWA (Inhalable fraction)	2 mg/m ³	ACGIH
		STEL (Inhalable fraction)	6 mg/m ³	ACGIH

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

Personal protective equipment

- Eye protection : Wear eye protection/ face protection.
- Hand protection : No special protective equipment required.
- Skin protection : No special protective equipment required.

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- 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. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Product AT USE DILUTION

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

Personal protective equipment

- Eye protection : No special protective equipment required.
- Hand protection : No special protective equipment required.
- Skin protection : No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Product AS SOLD	Product AT USE DILUTION
Appearance	: liquid	liquid
Color	: clear, green	light green
Odor	: Perfumes, fragrances	Perfumes, fragrances
pH	: 7.0 - 9.0, 100 %	6.0 - 9.0
Flash point	: closed cup 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	: 1.02 - 1.05	
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	

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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

Product AS SOLD

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Conditions to avoid	: None known.
Incompatible materials	: Acids Bases
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects

Product AS SOLD

Eyes	: Causes serious eye damage.
Skin	: Harmful in contact with skin. May cause allergic skin reaction.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Harmful if inhaled.
Chronic Exposure	: Health injuries are not known or expected under normal use.

Product AT USE DILUTION

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.

Experience with human exposure

Product AS SOLD

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Eye contact : Redness, Pain, Corrosion
Skin contact : Redness, Irritation, Allergic reactions
Ingestion : No symptoms known or expected.
Inhalation : No information available.

Product AT USE DILUTION

Eye contact : Redness, Irritation
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
Skin corrosion/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 aquatic invertebrates : No data available
Toxicity to algae : No data available

Ingredients

Toxicity to fish : Propylene glycol

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96 h LC50: > 10,000 mg/l

Fattyalcohol ethoxylates > 5EO
96 h LC50 Fish: 1.4 mg/l

boric acid (h3bo3), compd. with 2-aminoethanol (1:1)
96 h LC50: 74 mg/l

Alkylpolyglycosides
96 h LC50 Fish: 5 mg/l

amines, coco alkyldimethyl, n-oxides
96 h LC50 Fish: 1 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

N,N-Bis(3-aminopropyl)laurylamine
72 h EC50: 0.014 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. 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.

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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

EPA Registration number : 1677-239

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 : 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:

Switzerland. New notified substances and declared preparations :

The mixture contains substances listed on the Swiss Inventory

United States TSCA Inventory :

On TSCA Inventory

Canadian Domestic Substances List (DSL) :

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

Australia Inventory of Chemical Substances (AICS) :

not determined

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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

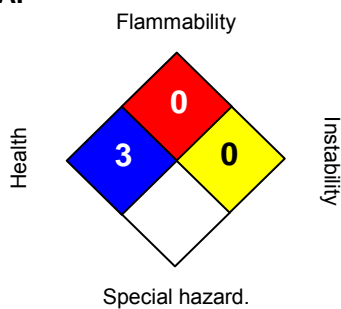
Korea. Korean Existing Chemicals Inventory (KECI) :
not determined

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

China. Inventory of Existing Chemical Substances in China (IECSC) :
On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Product AS SOLD
NFPA:

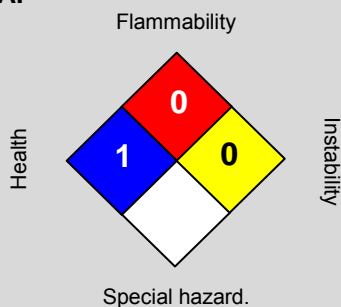


HMIS III:

HEALTH	3*
FLAMMABILITY	0
PHYSICAL HAZARD	0

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

Product AT USE DILUTION
NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

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

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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.

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SANITIZING WASH N WALK

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.