

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

Product Name: SCOTT® Continuous Air Freshener, Ocean

Product Number: 91072

Date Prepared:	9/23/2013
Manufacturer:	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: Air Freshener

For additional information contact: kepinfo@kcc.com.

2. HAZARDS IDENTIFICATION

Clear, light yellow liquid with a fragrant odor.

Emergency Overview: Combustible liquid. Aspiration into the lungs may cause lung injury. May cause eye/skin irritation. Inhalation of high vapor concentrations may result in eye, nose and throat irritation, headache and nausea. May cause allergic skin reaction. This product contains a small amount (48 mL) of a combustible liquid. This liquid is slowly released from the cartridge over time. This product does not present a fire hazard under normal conditions of use.

EU Classification (1999/45/EC): Xn - Harmful N - Dangerous for the environment

EU Risk/Safety Phrases: R38, R43, R51/53, R65

US OSHA Classification (29CFR1910.1200): Combustible liquid. Eye Irritant. Skin Irritant. Skin Sensitizer

Canadian WHMIS Classification: Class B-3 Class D-2-B

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No./EINECS-No	%	EU Classification (67/548/EEC):
Fragrance	Mixture	100%	Xn, R38, R43, R51/53, R65
C11-15 Isoalkanes	90622-58-5 / 292-460-6	50-60%	Xn R65

2,6-dimethyloct-7-en-2-ol	18479-58-8/242-362-4	20-30%	Xi R38
Decanal	112-31-2/203-957-4	1-10%	Xi R38, R52/53
d-Limonene (Dipentene)	5989-27-5 / 227-813-5	1-10%	N Xi R10, R38, R43, R50/53

Note: This product consists of 100% fragrance ingredients with no other additives.

See Section 16 for further information on EU Classification.

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 with soap and water. Obtain medical attention if irritation persists.

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. If victim is conscious, rinse mouth with a small amount of water. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

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

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective suit.

Unusual Fire and Explosion Hazards: This product contains a small amount (48 mL) of a combustible liquid. This liquid is slowly released from the cartridge over time. This product does not present a fire hazard under normal conditions of use.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Ventilate the area. Contain and collect with inert absorbent material and place in a suitable container for disposal. Comply with all federal, state and local regulations.

7. HANDLING AND STORAGE

Avoid contact with skin and eyes. Use only with adequate ventilation. Avoid sparks, flame and excessive heat.

Store in a cool, dry, well ventilated area. The fragrance in this product is classified as a NFPA Class IIIA liquid.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	Exposure limit(s)
Fragrance	None established
C11-15 Isoalkanes	None established
2,6-dimethyloct-7-en-2-ol	None established
Decanal	None established
d-Limonene (Dipentene)	None established

Ventilation: No special ventilation normally required.

Respiratory Protection: No personal respiratory protective equipment normally required.

Protective Gloves: Not required. Avoid contact with skin.

Eye Protection: None required for normal use. Avoid contact with eyes.

For bulk processing, regular hand washing along with general body-covering clothing, safety goggles and gloves are recommended as good industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor	Clear, light yellow liquid with a fragrant odor.
Boiling point/range	Not available
Melting point/range	Not available
Specific Gravity (water=1)	Not available
Vapor pressure	Not available
Vapor density (air=1)	Not available
Solubility	Insoluble
pH	Not available
Partition coefficient (n-octanol/water):	Not available
Evaporation Rate (Butyl acetate=1)	Not available
Percent Volatile by Volume (%)	Not available
Volatile Organic Carbon Compounds (VOC) (g/L)	Air fresheners whose VOC constituents consist of 100% fragrance are not subject to the EPA or CARB VOC Emission Standards for Consumer Products.
Flashpoint:	134.6°F (57°C)
Flammable Limits in Air % by Volume:	LEL (Lower):Not available

UEL (Upper): Not available

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Avoid sparks, flame and excessive heat.

Materials to avoid: Incompatible with strong bases and oxidizing agents

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Does not occur.

11. TOXICOLOGICAL INFORMATION

Symptoms/Effects of Overexposure:

Inhalation: Inhalation of high vapor concentrations may result in eye, nose and throat irritation, headache and nausea.

Skin contact: May cause skin irritation and/or dermatitis. May cause sensitization by skin contact.

Eye contact: Contact with eyes may cause irritation.

Ingestion: Not a likely route of exposure. May cause mucous membrane and gastrointestinal irritation and other adverse effects. Aspiration into the lungs may cause lung injury.

Chronic toxicity: May cause allergic skin reaction.

Medical Conditions Aggravated by Exposure: May possibly aggravate dermatitis, psoriasis and other skin conditions.

Carcinogenicity Data: None of the components of this product is listed as a carcinogen by IARC, NTP, US OSHA or the EU CLP Annex VI.

Reproductive Toxicity: No adverse effects on reproduction are known.

Acute Toxicity Values: No data is currently available.

12. ECOLOGICAL INFORMATION

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

US DOT Shipping Description: Excepted from HazMat (49CFR173.150(f))

Canadian TDG Shipping Description: Excepted from regulation as dangerous goods when transported via road or rail in small means of containment.

IATA Shipping Description (Air): UN1169, Extracts, Aromatic Liquid, 3, III

IMDG Shipping Description (Vessel): UN1169, Extracts, Aromatic Liquid, 3, III, Marine Pollutant (Limonene)

15. REGULATORY INFORMATION

US Regulations

EPA Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA Inventory or exempted from TSCA.

SARA 302 Listed Chemicals: None.

SARA 311/312 Hazard Categories: Acute Health Fire Hazard


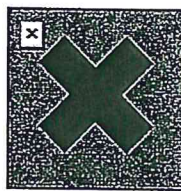
SARA 313 This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under the SARA Section 313 (40 CFR 372): None.

California Proposition 65: This product does not contain chemicals listed per the Safe Drinking Water and Toxic Enforcement Act of 1986.

International Regulations

Canadian WHMIS Classification: Class D-2-B Class B-3

EU Labeling:

	N - Dangerous for the environment		Xn - Harmful
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R38 - Irritating to skin.

R43 - May cause sensitization by skin contact.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 - Harmful: may cause lung damage if swallowed.

S24/25 - Avoid contact with skin and eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 - After contact with skin, wash immediately with plenty of soap and water.

S35 - This material and its container must be disposed of in a safe way.

S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

HMIS Rating: Health 2 Fire 2 Physical Hazard 0

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

Revision Summary: Revision to section(s) 1, 2, 3, 8, 9, 11, 12, 14, 15.

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

Xi - Irritant

Xn - Harmful

N - Dangerous for the environment

R10 - Flammable.

R38 - Irritating to skin.

R43 - May cause sensitization by skin contact.

R50/53 - Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 - Harmful: may cause lung damage if swallowed.

The information contained herein is true and correct to the best of Kimberly-Clark's knowledge. However, no warranty, expressed or implied, is made. Nothing herein should be interpreted as a recommendation to infringe existing patents or violate any laws or regulations. Final determination of the suitability of the material is the sole responsibility of the user.

MATERIAL SAFETY DATA SHEET
PortionPac Chemical Corp
400 N Ashland Ave Chicago, IL 60622

TELEPHONE 312/228-0400

FAX 312/226-5400

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

SECTION 01 IDENTIFICATION

MSDS NO. 1705/1732 REV 7 DATE: March, 1993

DepotPac/5 No. 1705 & AirFreshener-Odor Counteractant No. 1732

Note: GAS registry numbers are not applicable to the formulated product

SECTION 02 PHYSICAL & HEALTH HAZARDOUS INGREDIENTS

Common Name: isopropanol, IPA, 2-Propanol
CAS Registry No. 67-63-0
Chemical name: isopropyl alcohol
Hazard % in formula: 7.6% in concentrate In working/use solution: 0.17%
Hazard Reference: TLV:TWA 400ppm, (980 mg/m³) NIOSH 400ppm 10hrTWA IDLH 20,000ppm

SECTION 02A OTHER INGREDIENTS NOT CONSIDERED HAZARDOUS IN FORMULATION

water
fragrances
nonylphenoxypolyethyleneoxyethanol CAS 9016-45-9
acid green 16 CAS 12768-78-4

The fragrance part of this formulation is a trade secret and the specific chemical identities are withheld in accordance with the provisions of S1910.1200 of Title 29 of the Federal Regulations.

SECTION 03 PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: N.A.
Vapor pressure: N.A.
Vapor density (Air=1): Not determined
Water solubility: Complete
Melting/Freezing point: Lower than 32 Deg. F.
Appearance: Clear emerald green liquid
Specific Grav. (water=1): 0.998
Percentage volatile in concentrate: Approx. 8% due to solvent
Evaporation rate: Much slower than 1 (n-butyl acetate = 1)
pH of concentrate: 7-8 range pH working/use solution: 7-8 range
Odor: Strong floral odor

SECTION 04 PHYSICAL HAZARD DATA

Flash point: 136 Deg. F closed cup
Flammable limits: Not determined
Fire fighting media: Water spray, CO₂, dry chemical;— treat primary cause of fire.
Special fire fighting procedures: None
Fire/Explosion Hazards: No special hazard known to exist

SECTION 05 REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will not occur
Conditions to Avoid: None known
Incompatible Materials: Strong oxidizing or reducing agents
Hazardous Decomposition Products: CO and CO₂ on thermal decomposition

SECTION 06 HEALTH HAZARD DATA

Oral Toxicity: Not determined for formulation.
Skin Toxicity: Not known for formulation.
Carcinogenicity: None of the individual materials in this formulation are listed as carcinogens in NTP, IARC Monographs, or are OSHA Regulated carcinogens.
Routes of Exposure: Inhalation, skin absorption

SECTION 07 SYMPTOMS OF OVEREXPOSURE

Symptoms of Ingestion: Ingestion of concentrate may be a slight health hazard if ingested in quantity.
 Symptoms of Inhalation: If misted in concentrated form can cause irritation of respiratory tract.
 Symptoms of Skin Contact: Prolonged and repeated contact with concentrate may cause dryness, irritation and skin defatting. (Acute dermal LD50 Rabbit 1300mg/Kg of IPA in formula).
 Symptoms of Eye Contact: Concentrate can cause painful stinging or burning of eyes and lids, watering of eye, conjunctivitis, opaqueness of the cornea, possible eye tissue damage.

SECTION 08 EMERGENCY FIRST AID PROCEDURES

For Ingestion: If concentrate has been ingested, dilute by giving 1-2 glasses of water. Do not induce vomiting. Never give anything to an unconscious person. Risk of aspiration and lung damage exceeds systemic poisoning risk.
 For Skin: As for all foreign materials, wash off concentrate or diluted use solution with water.
 For Eyes: PROMPTLY flush with large amounts of water occasionally lifting the lower and upper lids. Call a physician if irritation persists.
 Medical conditions aggravated by exposure: No data found.

SECTION 09 OCCUPATIONAL CONTROL PROCEDURES

Ventilation: Use with adequate ventilation. Working solution should not present any general hazard. Respiratory protection: not required under normal working/use conditions.
 Eye Protection: Not normally required. Use if in specific applications splashes or mists will get into eyes.
 Skin Protection: Not normally necessary in general use as product is normally used in spray bottle
 Personal Hygiene: As in handling any detergent, wash thoroughly after using.

SECTION 10 PRECAUTIONS FOR SAFE HANDLING STORAGE AND USE

Precautionary Measures: Avoid contact with eyes and prolonged contact of concentrate with skin. Avoid breathing misted or aspirated vapors of concentrate undiluted product. Use with adequate ventilation. Do not store at elevated temperatures. (above 140 deg. F)
 Spills Clean-up Procedures: Concentrated materials are packed in small bags limiting any spills to very small quantities. Paper toweling or mopping is usually sufficient.
 Disposal Method: Bags should be disposed of in normal waste in accordance with state and local regulations.

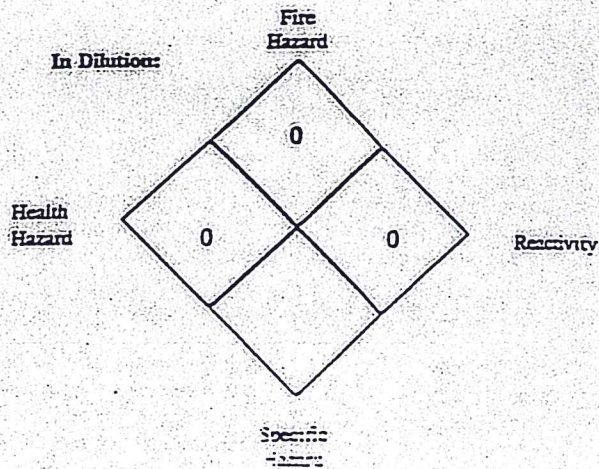
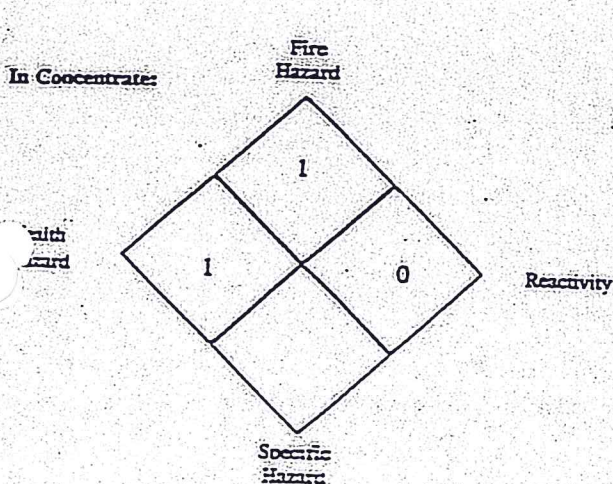
GENERAL NOTE ABOUT PORTION PAC PRODUCTS

PortionPac AirFreshener/Odor Counteractant formulation is similar to other commercially available air fresheners or for that matter any household scented air freshener product available in grocery stores. Even though the concentrate may be considered a combustible liquid, and therefore hazardous under OSHA hazard communication standards, the dilute use solution should not be considered a hazard. The unique packaging of PortionPac materials into small unit dosed bags limits the amount of exposure of the concentrate to very small amounts. This can be cleaned up with paper toweling or plain mopping in case of a spill. We know of no serious hazards associated with the proper use and handling of this product.

PortionPac Chemical Corporation makes no warranty, expressed or implied, as to the accuracy, completeness or reliability of this information, except that such information is, to the best of our knowledge and belief, accurate as of the date indicated.

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

MSDS 1705/1732 REVISED: 03/93



MATERIAL SAFETY DATA SHEET

PortionPac Chemical Corp

100 N Ashland Ave Chicago, IL 60622

TELEPHONE 312/226-0400 FAX 312/226-5100

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

SECTION 01 IDENTIFICATION

MSDS NO. SFS 10 DATE: July, 1995

TRADE NAME: **SFS PAC 10 ALL PURPOSE CLEANER**

SECTION 02 PHYSICAL & HEALTH HAZARDOUS INGREDIENTS

Hazardous Material as defined by 29 CFR 1910.1200 Reportable under CERCLA or SARA TITLE III sec 304 Regulations

Common Name: ethanolamine, MEA, monoethanolamine
CAS Registry No: 141-43-5
Chemical name: monoethanolamine, 2-aminoethanol
Hazard % in formula: 14.9% in concentrate In mopping solution: 0.06%
Hazard Reference: 3 ppm ACGIH 85/86 Ref (1) Sec IX LD₅₀ rats 10.2g/Kg JIND HYG TOXICOL 23, 259 (1941)

Common Name: DPM
CAS Registry No: 34590-948
Chemical Name: dipropylene glycol monomethyl ether
Hazard % in formula: 16.4% in concentrate In mopping solution: 0.06%
Hazard reference: 100 ppm OSHA PEL

Common name: ethyl alcohol, alcohol
CAS Registry No: 64-17-5
Chemical Name: ethanol
Hazard % in formula: 1.9% typical In mopping solution: 0.007% - 0.0097%
Hazard reference: TLV-TWA 1000ppm PEL-TWA 1000ppm

SECTION 02A OTHER INGREDIENTS NOT CONSIDERED HAZARDOUS IN FORMULATION

water
ammonium salt of sulfated nonylphenoxy poly(ethyleneoxy) ethanol CAS 9051-57-4
vegetable oil ethanolamide CAS 68608-42-9
triethanolamine CAS 102-71-6
propylene glycol monomethyl ether CAS 107-98-2
EDTA CAS 64-02-8

SECTION 03 PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: 201 DEG F
Vapor pressure: 29 mm Hg
Vapor density (Air=1): not determined
Water solubility: complete
Melting/Freezing point: < 0 DEG F
Appearance: Green liquid, slightly more viscous than water
Specific Grav. (water=1): 1.025
Percentage volatiles in concentrate: Approx. 30% water, 25% solvent
Evaporation rate: much slower than 1 (n-butyl acetate = 1)
pH of concentrate: 11.2 ± .3 pH mopping solution: 9.8 ± .3
Odor: ammoniacal odor in concentrate, fresh, slightly ammoniacal and vegetable soap odor in dilution

SECTION 04 PHYSICAL HAZARD DATA

Flash point: 181 DEG F, Closed cup
Flammable limits: not determined
Fire fighting media: Water spray, CO₂, dry chemical. Treat primary cause of fire.
Special fire fighting procedures: None
Fire/Explosion Hazards: No unusual hazards known

SECTION 05 REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will not occur
Conditions to Avoid: Long exposure to materials containing copper, aluminum and strong oxidizing agents.
Incompatible Materials: Strong oxidizing or reducing agents
Hazardous Decomposition products: Acid smoke and fumes emitted when heated to decomposition. CO, CO₂, NO_x and ammonia may be produced on thermal decomposition.

SECTION 05 HEALTH HAZARD DATA

Oral Toxicity: Not determined for formulation.
 Skin Toxicity: Not known for formulation. Rabbit Skin LD₅₀ 1.0g/kg for MEA in formulation.
 Carcinogenicity: None of the individual materials in this formulation are listed as carcinogens in NTP, IARC Monographs, or are OSHA Regulated carcinogens.

SECTION 07 SYMPTOMS OF OVEREXPOSURE

Symptoms of Ingestion: May cause nausea, vomiting, and abdominal pain, incoordination, diarrhea and general weakness if concentrate is ingested. Ingestion may cause red blood cell hemolysis and possible liver and kidney injury.
 Symptoms of Inhalation: If misted in concentrated form can cause irritation of mucous membrane, nose, eye and throat.
 Symptoms of Skin Contact: May cause dermatitis or irritation in some individuals upon prolonged contact. Localized skin defatting can be expected from concentrated material on long contact.
 Symptoms of Eye Contact: Causes painful stinging or burning of eyes and lids, watering of eye, conjunctivitis, and in concentrated undiluted form may cause opaqueness of cornea, possibly leading to loss of sight.

SECTION 08 EMERGENCY FIRST AID PROCEDURES

For Ingestion: Suggest inducing vomiting immediately by giving two glasses of water and sticking finger down throat. However, NEVER give anything to an unconscious person. Call a Physician. Treatment should be directed at the control of symptoms and the clinical condition of the patient. There is no specific antidote.
 For Skin: As for all foreign materials, wash off concentrate or diluted use solution with water. Remove clothing which has been saturated by concentrate. Do not allow prolonged contact with the concentrated, undiluted material as toxic amounts can be absorbed over an extended time.
 For Eyes: PROMPTLY flush with large amounts of water occasionally lifting the lower and upper lids. Call a physician if irritation persists. Medical conditions aggravated by exposure. No data found.

SECTION 09 OCCUPATIONAL CONTROL PROCEDURES

Ventilation: Use with adequate ventilation. Working solution should not present any hazard. If misted or an aerosol is generated, local or mechanical exhaust recommended to maintain vapor concentration below TLV. This level, however, should not be reached under normal working conditions.
 Respiratory Protection: Not required under normal working/use conditions.
 Eye Protection: Not normally required. Use in specific applications splashed or mists will unavoidably get into eyes.
 Skin Protection: Use gloves if hands will be continuously in solution, not normally necessary in general use.
 Personal Hygiene: As in handling any detergent, wash thoroughly after using.

SECTION 10 PRECAUTIONS FOR SAFE HANDLING STORAGE AND USE

Precautionary Measures: Avoid contact with eyes and prolonged contact of concentrate with skin. Avoid breathing misted vapors. Use with adequate ventilation. Do not store at elevated temperatures.
 Spills Clean-up Procedures: Concentrated materials are packed in two (2) ounce bags limiting any spills to very small quantities. Paper toweling or mopping is usually sufficient.
 Disposal Method: Bags can be disposed of in normal waste.

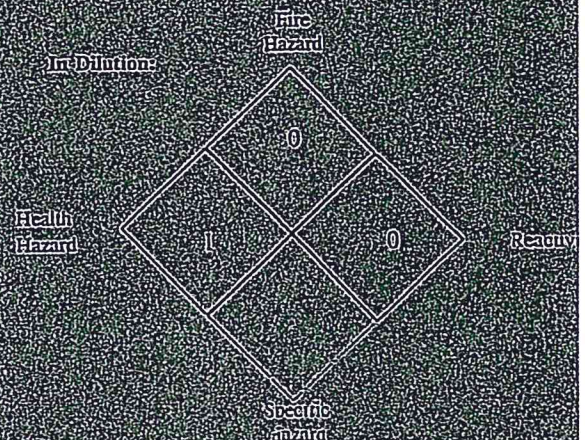
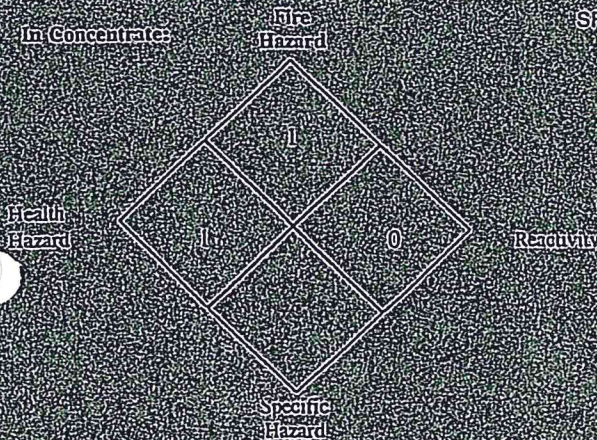
GENERAL NOTE ABOUT SFS PAC PRODUCTS

SFS Pac Floor Cleaner formulation is not substantially different from any other commercially available hard surface cleaner or for that matter any household spray cleaner available in most grocery stores. The unique packaging of SFS Pac materials in a small unit dosed bag of two (2) ounce size limits the amount of exposure of the concentrate to very small amounts. Spills can be cleaned up with paper toweling or plain mopping, as these are in fact products for mopping as well as other maintenance chores. We know of no serious hazards associated with the proper use and handling of this product. SFS Pac Floor Cleaner is diluted for normal mopping (ie. 2 ounces with 4 gals) with water.

PortonPac Chemical Corporation makes no warranty, expressed or implied, as to the accuracy, completeness or reliability of this information except that such information is, to the best of PortonPac Chemical Corporation's knowledge and belief, accurate as of the date indicated.

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

SFS 10 REVISED: 7/93





Material Safety Data Sheet

KIK INTERNATIONAL

Section 1. Chemical Product and Company Identification

Product Name/Trade Name:	Great Value All Purpose Cleaner w/Bleach
Manufacturer:	KIK INTERNATIONAL 2921 Corde Street Houston, Texas 77054
Contact Number:	Tel: 905-660-0444
24 Hour Emergency Contact:	Tel: 800-424-9300
Prepared by:	KIK INTERNATIONAL Laboratory
Replaces Date:	April 14, 2004
Date Last Revised:	May 20, 2004

Section 2. Hazardous Ingredients

Name	%	CAS#	LD50/LC50
Sodium Hypochlorite	2.00 - 3.00	7681-52-9	5800 mg/kg / >10500 mg/m ³ (4hr)

Section 3. Physical Data

State	Liquid	PH	11.0 - 13.0
Appearance	Colourless	% Volatile	95% Approx.
Odor	Chlorine/floral	Boiling Point	100°C
Specific Gravity	1.030-1.055	Vapor Pressure	None
Solubility	100%		

Section 4. Fire & Explosion

Flammable:	YES	NO <input checked="" type="checkbox"/>
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	NO <input checked="" type="checkbox"/>
Conditions:	Temperature above 40°C, sunlight and metals	
Incompatibility:	YES <input checked="" type="checkbox"/>	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.	

Great Value Home All Purpose Cleaner with Bleach

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 vapors 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 will cause burning sensation in mouth, throat and stomach.

Effects of chronic exposure: Prolonged and repeated exposure with skin may cause drying, irritation, and dermatitis.

Carcinogenicity Reproductive Effects: Teratogenicity Mutagenicity: No known effects.

Section 7. Preventative Measures

Protective Equipment	
Gloves: Recommended	Eyes: Safety glasses
Respiratory: Not normally required	Footwear: Not Applicable
LEAK AND SPILL PROTECTION: FOR SMALL SPILLS WIPE UP OR MOP UP. For large spills control spill with absorbent, transfer to non-leaking containers. Rinse area thoroughly.	
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 or milk. 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:	1
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.



The Clorox Company
 1221 Broadway
 Oakland, CA 94612
 Tel. (510) 271-7000

Material Safety Data Sheet

I Product: GREEN WORKS® NATURALLY DERIVED ALL-PURPOSE CLEANER											
Description: LIQUID WITH CITRUS SCENT											
Other Designations	Distributor	Emergency Telephone Nos.									
Original Tangerine Simply Lemon	The Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies call: 1-800-446-1014 For Transportation Emergencies, call Chemtrec: 1-800-424-9300									
II Health Hazard Data		III Hazardous Ingredients									
<p>Eye irritant. May cause skin irritation. No medical conditions are known to be aggravated by exposure to this product.</p> <p>FIRST AID:</p> <p>EYE CONTACT: Immediately rinse with plenty of water. If irritation persists, call a doctor.</p> <p>INGESTION: Drink a glassful of water. Call a doctor or poison control center.</p> <p>SKIN CONTACT: Rinse with plenty of water. If irritation persists, call a doctor.</p> <p>INHALATION: Move person to fresh air. If breathing problems develop, call a doctor.</p>		<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Alkyl polyglucoside CAS # 68515-73-1</td> <td>1 - 5%</td> <td>not established</td> </tr> <tr> <td>Ethyl alcohol CAS # 64-17-5</td> <td>1 - 5%</td> <td>1000 ppm - TLV-TWA 1000 ppm - OSHA PEL</td> </tr> </tbody> </table> <p>TLV-TWA = ACGIH Threshold Limit Value - Time Weighted Average OSHA-PEL = OSHA Permissible Exposure Limit - Time Weighted Average</p> <p>None of the materials in this product are on the IARC, OSHA, or NTP carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	Alkyl polyglucoside CAS # 68515-73-1	1 - 5%	not established	Ethyl alcohol CAS # 64-17-5	1 - 5%	1000 ppm - TLV-TWA 1000 ppm - OSHA PEL
Ingredient	Concentration	Worker Exposure Limit									
Alkyl polyglucoside CAS # 68515-73-1	1 - 5%	not established									
Ethyl alcohol CAS # 64-17-5	1 - 5%	1000 ppm - TLV-TWA 1000 ppm - OSHA PEL									
IV Special Protection and Precautions		V Transportation and Regulatory Data									
<p>Hygienic Practices: Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods.</p> <p>Engineering Controls: Use local exhaust to minimize exposure to product mist.</p> <p>Personal Protective Equipment: Wear safety glasses. Wear rubber or neoprene gloves if there is the potential for repeated or prolonged skin contact. In situations where exposure limits may be exceeded, a NIOSH-approved respirator is advised.</p>		<p>DOT/IATA/IMDG: Not restricted.</p> <p>EPA - SARA Title III/CERCLA: This product is regulated under Sections 311/312. This product contains no chemicals which are regulated under Section 313 or regulated under Section 304/CERCLA.</p> <p>TSCA: All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.</p> <p>TSCA 12(b): This product is not subject to TSCA 12(b) reporting requirements.</p>									
VI Spill Procedures/Waste Disposal		VII Reactivity Data									
<p>Spill Procedures: Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.</p> <p>Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.</p>		Stable under normal use and storage conditions.									
VIII Fire and Explosion Data		IX Physical Data									
<p>Flash Point: >200°F (closed cup)</p> <p>Fire Extinguishing Agents: Dry chemical, carbon dioxide (CO₂), foam, or water spray.</p>		<p>pH..... ~11.0</p> <p>Specific gravity 1.0</p> <p>Solubility in water Soluble</p>									



The Clorox Company
 1221 Broadway
 Oakland, CA 94612
 Tel. 1-510-271-7000

Material Safety Data Sheet

I Product: GREEN WORKS® 98% NATURALLY DERIVED ALL-PURPOSE CLEANER – ORIGINAL							
Description: CLEAR, LIGHT GREEN, THIN LIQUID WITH A FRESH LEMON ODOR							
	Distributor						
	The Clorox Sales Company 1221 Broadway Oakland, CA 94612						
	Emergency Telephone Nos.						
	For Medical Emergencies, call 1-800-446-1014. For Transportation Emergencies, call 1-800-424-9300 (Chemtrec).						
II Health Hazard Data	III Hazardous Ingredients						
<p>Eye contact may cause minor irritation.</p> <p>No medical conditions are known to be aggravated by exposure to this product.</p> <p>FIRST AID:</p> <p>EYE CONTACT: Rinse with plenty of water. If irritation persists, call a doctor.</p> <p>SKIN CONTACT: Rinse with plenty of water. If irritation persists, call a doctor.</p> <p>INGESTION: Drink a glassful of water. Call a doctor or poison control center.</p> <p>INHALATION: Move person to fresh air. If breathing problems develop, call a doctor.</p>	<table border="0"> <thead> <tr> <th style="text-align: left;"><u>Ingredient</u></th> <th style="text-align: left;"><u>Concentration</u></th> <th style="text-align: left;"><u>Worker Exposure Limit</u></th> </tr> </thead> <tbody> <tr> <td>Alkyl polyglucosides CAS # 68515-73-1, 110615-47-9</td> <td>0.5 - 1.5%</td> <td>Not established.</td> </tr> </tbody> </table> <p>None of the materials in this product are on the IARC, OSHA, or NTP carcinogen lists.</p>	<u>Ingredient</u>	<u>Concentration</u>	<u>Worker Exposure Limit</u>	Alkyl polyglucosides CAS # 68515-73-1, 110615-47-9	0.5 - 1.5%	Not established.
<u>Ingredient</u>	<u>Concentration</u>	<u>Worker Exposure Limit</u>					
Alkyl polyglucosides CAS # 68515-73-1, 110615-47-9	0.5 - 1.5%	Not established.					
IV Special Protection and Precautions	V Transportation and Regulatory Data						
<p>Hygienic Practices: Wash hands after direct contact.</p> <p>Engineering Controls: Use general ventilation to minimize exposure to product mist.</p> <p>Personal Protective Equipment: Wear safety glasses. Wear rubber or neoprene gloves if there is the potential for repeated or prolonged skin contact.</p>	<p>DOT/IATA/IMDG: Not restricted.</p> <p>EPA - SARA Title III/CERCLA: This product is regulated under Sections 311/312. This product contains no chemicals that are regulated under Section 313 and contains sodium hydroxide (CAS # 1310-73-2, <0.1%) that is regulated under Section 304/CERCLA.</p> <p>TSCA: All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.</p> <p>TSCA 12(b): This product is not subject to TSCA 12(b) reporting requirements.</p>						
VI Spill Procedures/Waste Disposal	VII Reactivity Data						
<p>Spill Procedures: Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.</p> <p>Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.</p>	<p>Stable under normal use and storage conditions.</p>						
VIII Fire and Explosion Data	IX Physical Data						
<p>Flash Point: >93°C (closed cup)</p> <p>Fire Extinguishing Agents: Dry chemical, carbon dioxide (CO₂), foam, or water spray.</p>	<p>pH..... 10 - 11.5</p> <p>Specific gravity ~1.0</p> <p>Solubility in water Soluble</p>						

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List)
Amaferm Liquid

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

Section I

Manufacturer's Name
BioZyme Incorporated

Emergency Telephone Number

Address
6010 Stockyards Expressway
St. Joseph, MO 64504

Telephone Number for Information
816-238-3326

Date Prepared
March 31, 2011

Signature of Preparer

Section II – Hazardous Ingredients/Identity Information

No hazardous ingredients.

Ingredients

Liquid *Aspergillus oryzae* Fermentation Product, Propylene Glycol, Glycerin, Citric Acid, Calcium Propionate, Distilled Water, Choline Chloride, Cellulase, Xylanase, Sucrose, Methionine, Thiamine, Cysteine, Ground Oats, Sorbic Acid (a preservative), Potassium Sorbate (a preservative).

Section III – Physical/Chemical Characteristics

Boiling Point	212 degrees Fahrenheit	Specific Gravity ($H_2O - 1$)	Approximately 1.1 g/cc
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Solubility in Water	Completely		
Density 0.471 +/- kilograms per liter or 29.4 +/- pounds per cubic foot (with a SE of 1.7 at P<0.05)			

Appearance and Odor
Slight yellow in color with a pleasant yeast-like odor

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL	UEL
Extinguishing Media N/A			
Special Fire Fighting Procedures None			
Unusual Fire and Explosion Hazards None			

Section V – Reactivity

Stability	Unstable		Conditions to Avoid
	Stable	X	Store at room temperature out of sunlight

Incompatibility (Materials to Avoid)
None

Hazardous Decomposition of Byproducts
None

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	None

Section VI – Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	None	None	None

Health Hazards (Acute and Chronic)
None Known

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
N/A	N/A	N/A	No

Signs and Symptoms of Exposure
None

Medical Conditions Generally Aggravated by Exposure
None Known

Emergency and First Aid Procedures
Wash off

Section VII - Precautions for safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Mop spill with soap and water

Waste Disposal Method
Safe for sewer

Section VIII - Control Measures

Respiratory Protection (Specify Type)
None Required

Ventilation	Local Exhaust	Special
	Mechanical (General)	Other
N/A		

Protective Gloves
N/A

Work/Hygienic Practices
N/A



Clorox Professional Products Company
 1221 Broadway
 Oakland, CA 94612
 Tel. (510) 271-7000

Material Safety Data Sheet

I Product: DISPATCH® BY CLOROX® BLEACH GERMICIDAL CLEANER														
Description: CLEAR, THIN LIQUID WITH A MILD BLEACH ODOR														
Other Designations	Distributor	Emergency Telephone Nos.												
EPA Reg. No. 56392-7	The Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies call: (800) 446-1014 For Transportation Emergencies, call Chemtrec: (800) 424-9300												
II Health Hazard Data		III Hazardous Ingredients												
<p>Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. No medical conditions are known to be aggravated by exposure to this product.</p> <p>FIRST AID:</p> <p>EYE CONTACT: Rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. If irritation persists, call a doctor.</p> <p>SKIN CONTACT: Rinse with plenty of water. If irritation persists, call a doctor.</p> <p>INHALATION: Remove to fresh air. If breathing problems develop, call a doctor.</p> <p>INGESTION: Drink a glassful of water. Call a doctor or poison control center.</p>		<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Sodium hypochlorite CAS# 7681-52-9</td> <td>0.1 - 1%</td> <td>Not established.</td> </tr> <tr> <td>Sodium metasilicate CAS# 6834-92-0</td> <td>0.1 - 1%</td> <td>Not established.</td> </tr> <tr> <td>Sodium hydroxide CAS# 1310-73-2</td> <td>0.1 - 1%</td> <td>10 mg/m³ - NIOSH-IDLH^a 2 mg/m³ - TLV-C^b 2 mg/m³ - OSHA-PEL^c</td> </tr> </tbody> </table> <p>^aNIOSH-IDLH = NIOSH Immediately Dangerous to Life or Health ^bTLV-C = ACGIH Threshold Limit Value - Ceiling ^cOSHA-PEL = OSHA Permissible Exposure Limit - Time Weighted Average</p> <p>None of the ingredients in this product are on the IARC, OSHA, or NTP carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	Sodium hypochlorite CAS# 7681-52-9	0.1 - 1%	Not established.	Sodium metasilicate CAS# 6834-92-0	0.1 - 1%	Not established.	Sodium hydroxide CAS# 1310-73-2	0.1 - 1%	10 mg/m ³ - NIOSH-IDLH ^a 2 mg/m ³ - TLV-C ^b 2 mg/m ³ - OSHA-PEL ^c
Ingredient	Concentration	Worker Exposure Limit												
Sodium hypochlorite CAS# 7681-52-9	0.1 - 1%	Not established.												
Sodium metasilicate CAS# 6834-92-0	0.1 - 1%	Not established.												
Sodium hydroxide CAS# 1310-73-2	0.1 - 1%	10 mg/m ³ - NIOSH-IDLH ^a 2 mg/m ³ - TLV-C ^b 2 mg/m ³ - OSHA-PEL ^c												
IV Special Protection and Precautions		V Transportation and Regulatory Data												
<p>No special protection or precautions have been identified for using this product under directed use conditions.</p> <p>The following recommendations are given for production facilities and for other conditions and situations where there is increased potential for accidental, large scale or prolonged exposure.</p> <p>Hygienic Practices: Wash thoroughly with soap and water after handling. Do not wear product-contaminated clothing for prolonged periods.</p> <p>Engineering Controls: Use general ventilation to minimize exposure to product vapor.</p> <p>Personal Protective Equipment: Wear rubber or nitrile gloves if there is the potential for repeated or prolonged skin contact. In situations where adequate local exhaust is not available, a NIOSH-approved respirator is advised. When handling items soiled with blood or body fluids (as when decontaminating against HIV-1, HBV and HCV), use disposable impervious gloves, gowns, masks and eye coverings.</p>		<p>DOT/IATA/IMDG: Not restricted.</p> <p>EPA - SARA Title III/CERCLA: This product is regulated under Sections 311/312. This product contains no chemicals regulated under Section 313. It does contain sodium hydroxide and sodium hypochlorite, which are regulated under Section 304/CERCLA.</p> <p>TSCA 8(b): All components of this product are either on the TSCA 8(b) inventory or otherwise exempt from listing.</p> <p>TSCA 12(b): This product is not subject to TSCA 12(b) reporting requirements.</p>												
VI Spill Procedures/Waste Disposal		VII Reactivity Data												
<p>Spill Procedures: Containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.</p> <p>Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.</p>		<p>Stable under normal use and storage conditions.</p> <p>This product contains a strong oxidizing agent. Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, or ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds.</p>												
VIII Fire and Explosion Data		IX Physical Data												
<p>Flash Point: >215°F (closed cup)</p> <p>Fire Extinguishing Agents: Dry chemical, carbon dioxide (CO₂), foam, or water spray.</p>		<p>pH ~12</p> <p>Specific gravity ~1.0</p> <p>Solubility in water.....complete</p>												

MATERIAL SAFETY DATA SHEET

10/12/06

CARROLL COMPANY
EMERGENCY TELEPHONES

2900 West Kingsley Road
Infotrac 24 Hours

Garland, TX 75041
1-800-535-5053

1-972-278-1304
1-800-527-5722

SECTION 1 - PRODUCT
NAME: 700 SPECIAL OIL
Product No: 344
Product Type: Dust Mop Treatment

Health	Flammability	Reactivity	PPE
0	0	0	1
Health Haz	Fire Haz	Reactivity	Personal Protection
0= minimal	0= will not burn	0= none	0= not necessary
1= slightly haz	1= FP>141F	1= mild	1= goggles
2= hazardous	2= FP=>73F=<141F	2= strong	2= goggles, gloves
3= serious haz	3= FP<73F		3= goggles, gloves, protective clothes
4= severe haz	4= BP<95F		4= goggles, gloves & respirator
	FP by PMCC		
* DGIS			

SECTION 2 - HAZARDOUS INGREDIENTS
Hydrotreated Middle Distillates (Petroleum) CAS #64742-46-7 WT%=99

SECTION 3 - HEALTH HAZARD & FIRST AID*

1. Acute Health Effect	None
2. Chronic Health Effects	None
3. Carcinogen	NO

4. Primary Entry Routes:
 a) Skin & Eyes: Prolonged contact with the skin may cause dryness. Eye contact may be slightly irritating.
 b) Ingestion: May be harmful.
 c) Inhalation: Harmful if inhaled. Avoid breathing vapor.

5. First Aid:
 a) Skin: Remove contaminated clothing-wash skin with soap & water. If irritation persists get medical attention.
 b) Eyes: Wash eyes with large volumes of water for at least 15 minutes while lifting the upper and lower eyelids and rotating the eyeball. Get medical attention if irritation persists.
 c) Ingestion: Give large volumes of water. Do not induce vomiting. Get medical attention.
 d) Inhalation: Move to fresh air. If symptoms persist seek medical attention.

SECTION 4 - PHYSICAL & CHEMICAL CHARACTERISTICS*

1. Physical State	Liquid
2. Color	Clear
3. Odor	Banana
4. Solubility in water	Insoluble
5. Specific Gravity (H2O=1.0)	0.804
6. pH	Und
7. Freezing Point	N/A
8. Flash Point	>200 F
9. Vapor Pressure	N/A

SECTION 5 - FIRE AND EXPLOSION HAZARD

1. Flash Point	>200 F
2. Extinguishing Media	Dry Chemical, Foam, CO2
3. Special Fire Fighting Procedures	None
4. Unusual Fire & Explosion Hazard	Fire fighters should observe all precautions that apply to any fire where chemicals are stored.

SECTION 6 - REACTIVITY DATA

1. Stability	Stable
2. Conditions to Avoid	None Known

SECTION 7 - SPILL OR LEAK PROCEDURES

- If product leaks or spills - Soak-up with dry absorbent. Dispose in suitable container.
- Abide by Federal, State, and Local regulations.

SECTION 8 - PERSONAL PROTECTION

None Required

SECTION 9 - SPECIAL PRECAUTIONS

- Store containers tightly closed and in an upright position.
- Do not destroy or deface the label.

SECTION 10 - SECTION 313 SUPPLIER NOTIFICATION (SARA)
 This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:
 None

SECTION 11 - TOXICOLOGICAL INFORMATION

None

SECTION 12 - ECOLOGICAL INFORMATION

None

SECTION 13 - DISPOSAL CONSIDERATIONS

- See Section 7 above.

SECTION 14 - DOT TRANSPORT INFORMATION

This product is Not Regulated.

SECTION 15 - OTHER REGULATORY INFORMATION

All ingredients appear on the TSCA Inventory List.

SECTION 16 - OTHER INFORMATION

*Revision 3/15/06 in Section 1.
 1. N/A = Not Applicable
 2. *Dangerous Goods Identification System (DGIS)
 3. PMCC = Pensky Martin Closed Cup
 4. Manufacturer believes that the information given here is accurate. The suggested procedures are based on experience and common sense and are not necessarily all-inclusive of every conceivable circumstance.



Spartan Chemical Company, Inc.

Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

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

BLUE GLO

Product Number: 3111; 3199

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: Cleaning compounds, liquid, n.o.s.	
NFPA Ratings:	HMIS Ratings:
Health: 1- Slight	Health: 1- Slight
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 olefin sulfonate	10-15	68439-57-6	Not Established	Not Established	Not Established	No
Sodium dodecyl benzene sulfonate	10-15	25155-30-0	Not Established	Not Established	Not Established	No
Sodium lauryl ether sulfate	1-5	9004-82-4	Not Established	Not Established	Not Established	No

SECTION III: PHYSICAL DATA

Boiling Point:	210-215 °F	Vapor Pressure:	Unknown
Vapor Density (AIR = 1):	Unknown	Solubility in Water:	Complete
pH:	6.5-7.5	Specific Gravity (H ₂ O=1):	1.04
Evaporation Rate (but.ace.=1):	<1	Percent Solid by Weight:	26-30
Physical State:	Liquid		
Appearance & Odor:	Blue liquid, fresh 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 & Oral
Effects of Overexposure- Conditions to Avoid:	May cause mild eye irritation. Symptoms may include pain, redness and swelling. May cause mild skin irritation. Symptoms may include pain, redness and swelling. May be harmful if swallowed. Symptoms may include abdominal pain and diarrhea. Inhalation of product mist may cause respiratory irritation. Avoid contact with eyes. Avoid prolonged or repeated skin contact with undiluted product. Do not swallow. Avoid breathing product mist.		
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 water for at least 15 minutes. Remove contact lenses. Get medical attention.
Skin:	Wash thoroughly with 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:	Move person to fresh air. Get medical attention if irritation persists.

SECTION VI: REACTIVITY DATA

Stability:	Stable	Incompatible Materials:	Strong acids and oxidizing agents
Hazardous Decomposition Products:	Not established	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:	Not normally required when good general ventilation is provided.
Ventilation:	Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.
Protective Gloves(Specify Type):	Not required. Rubber or other 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:	Do not freeze. Do not store above 120°F. Do not mix with other chemicals.
Other Precautions:	Keep out of reach of children

© SCC 07/07/2005
BLUE GLO

Name: Ronald T. Cook
Effective 07/07/2005
Date:

Title: Manager, Regulatory Affairs
Supercedes: 09/21/1999

Ref: 29 CFR 1910.1200 (OSHA) Changes: Update Sections I, II, III, IV, V, VII, VIII & IX

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**U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration**

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME PortionPac Chemical Corporation		EMERGENCY TELEPHONE NO. 312/226-0400
ADDRESS (Number, Street, City, State, and ZIP Code) 400 N. Ashland Ave. Chicago, IL 60622		
CHEMICAL NAME AND SYNONYMS Solution of Citric acid & Detergent		TRADE NAME AND SYNONYMS BowlPac
CHEMICAL FAMILY 2-Hydroxy-1,2,3 Propanetricarboxylic Acid	FORMULA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
No known hazardous effects					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)		SPECIFIC GRAVITY (H ₂ O=1)	
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT, VOLATILE BY VOLUME (%)	None
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	∞		
APPEARANCE AND ODOR	No odor - Milky White		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	None	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	Does not burn			
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

EFFECTS OF OVEREXPOSURE

None

Eye Contact: May cause irritation & local redness

EMERGENCY AND FIRST AID PROCEDURES

Flush eye thoroughly with water for 15 min.

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

Stable

STABLE

X

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

X

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

No special care necessary

WASTE DISPOSAL METHOD

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

None required

VENTILATION

LOCAL EXHAUST

SPECIAL

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

EYE PROTECTION

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

OTHER PRECAUTIONS

MATERIAL SAFETY DATA SHEET

BowPac Chemical Corp

10 N Ashland Ave Chicago IL 60622-6342

Telephone: 312/226-3400 Fax: 312/226-5400

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5158

SECTION 01 IDENTIFICATION

MSDS No. 500 Rev. 5 Date: March, 1993

Trade Name: **BowPac No. 532 & DepotPac Toilet Bowl Cleaner No. 505**

SECTION 02 PHYSICAL & HEALTH HAZARDOUS INGREDIENTS

No hazardous material as defined by 29 CFR 1910.106, Sub Z
Not regulated under CERCLA or SARA TITLE III sec. 304/Regulators

SECTION 03 OTHER INGREDIENTS NOT CONSIDERED HAZARDOUS IN FORMULATION

Water	
Surfactant	CAS 77492-9
nonylphenoxy poly(ethyleneoxy)ethanol	CAS 901625-9
fragrance	
glyc	

SECTION 04 PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling point	>> 212 Deg F
Vapor pressure	N/A
Density (at 20°C)	N/A
Water Solubility	Complete
Melting/freezing point	< 32 Deg F
Appearance	Electric white in concentrate, white in dilution
Specific grav. (water=1)	1.264
Percentage volatiles in concentrate	N/A
Evaporation rate	Much slower than 1, (n-butyl acetate = 1)
pH of concentrate	2.0 - 2.5
Odor	pH working/use solution: 2.2 - 2.5 Pleasant floral odor in concentrate or use solution.

SECTION 05 PHYSICAL HAZARD DATA

Flash point	No. applicable
Flammable limits	Not determined
Fire fighting media	Treat primary cause of fire
Special fire fighting procedures	None

SECTION 06 REACTIVITY DATA

Stability	Stable
Hazardous polymerization	Will not occur
Conditions to avoid	None known
Incompatible materials	Alkaline metals
Hazardous decomposition products	None known

SECTION 08 HEALTH HAZARD DATA

Oral toxicity	Not determined
Skin toxicity	Not known for formulation
Carcinogenicity	None of the individual materials in this formulation are listed as carcinogens in NTP, IARC Monographs or are OSHA Regulated carcinogens.

SECTION 07 SYMPTOMS OF OVEREXPOSURE

Symptoms of ingestion	May cause diarrhea.
Symptoms of inhalation	If misted in concentrated form, which is improper use, can cause irritation of mucous membrane, nose, eye and throat.
Symptoms of skin contact	May cause dermatitis of irritation in some individuals upon prolonged contact.
Symptoms of eye contact	Causes painful stinging or burning of eyes and iris, watering of eye.

SECTION 6 - EMERGENCY FIRST AID PROCEDURES

Ingestion: Suggest giving 1-2 glasses of water.
 Skin: As for all foreign materials, wash off concentrate or diluted bag solution with water.
 For eyes: PROMPTLY flush with large amounts of water, occasionally lifting the lower and upper lids. Call a physician if irritation persists.
 Medical conditions aggravated by exposure: No data found.

SECTION 7 - OCCUPATIONAL CONTROL PROCEDURES

Ventilation: None normally required.
 Respiratory protection: Not required under normal working/use conditions.
 Eye protection: Not normally required. Use in specific applications splashes or mists will get into eyes.
 Skin protection: Not normally required.
 Personal hygiene: As in handling any detergent, wash thoroughly after using.

SECTION 8 - PRECAUTIONS FOR SAFE HANDLING, STORAGE AND USE

Precautionary measures: Avoid contact with eyes and prohibited contact of concentrate with skin.
 Cleanup procedures: Concentrated materials are packed in 1 1/8 ounce bags limiting any spills to very small quantities. Paper toweling or mopping is sufficient.
 Disposal method: Bags should be rinsed when product is diluted for use and then disposed of in normal waste.

GENERAL NOTE ABOUT PORTION PAC VERSIONS

PortionPac BowlPac Detergent formulation is substantially different from any other commercially available floor care cleaning product. It is not based on strong mineral acids to dissolve hard water deposits. The unique packaging of PortionPac materials in small unit cased bags of 1 3/4 ounce and 35 ounce sizes limits the amount of exposure of the concentrate to very small amounts. These can be cleaned up with paper toweling or plain mopping. We know of no serious hazards associated with the proper use and handling of this product.

PortionPac Chemical Corporation makes no warranty, expressed or implied, as to the accuracy, completeness or reliability of this information, except that such information is, to the best of our knowledge and belief, accurate as of the date indicated.

24-HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

MSDS 509572 Revised March, 1998



MATERIAL SAFETY DATA SHEET

PortionPac Chemical Corp

100 N Ashland Ave Chicago, IL 60622

TELEPHONE 312/226-0400 FAX 312/226-5400 24 HOUR EMERGENCY RESPONSE PHONE 1-800-565-5953

SECTION 01 IDENTIFICATION

MSDS NO. SFS 30 DATE: 10/1/99

TRADE NAME: **SFS PAC 30 DEGREASER**

SECTION 02 PHYSICAL & HEALTH HAZARDOUS INGREDIENTS

Hazardous Material as defined by 29 CFR 1910.1200 Reportable under CERCLA or SARA TITLE III sec 304 Regulations

Common Name: ethanolamine, MEA, monoethanolamine
CAS Registry No: 141-49-5
Chemical Name: monoethanolamine, 2-aminoethanol
Hazard % in formula: 48.0% in concentrate In mopping/use solution: 0.48%
Hazard Reference: 3 ppm /ACGIH 65/86 Ref. (d) Sec. IX LD₅₀ rats 10.2g/kg JINDIHYG-TOXICOL 23, 259 (1941)

Common Name: DPM
CAS Registry No: 34590-94-8
Chemical Name: dipropylene glycol monomethyl ether
Hazard % in formula: 16.0% in concentrate In mopping/use solution: 0.16%
Hazard Reference: 100 ppm OSHA PEL

Common Name: ethyl alcohol, alcohol
CAS Registry No: 64-17-5
Chemical Name: ethanol
Hazard % in formula: 1.92% - 2.57% in concentrate; In mopping solution: 0.019% - 0.026%
Hazard Reference: TLV:TWA 1000ppm; PEL:TWA 1000ppm

SECTION 03 OTHER INGREDIENTS NOT CONSIDERED HAZARDOUS IN FORMULATION

ammonium salt of sulfated nonylphenoxy poly(ethyleneoxy) ethanol CAS 9051-57-4
vegetable oil alcoholamide CAS 68608-42-9
propylene glycol monomethyl ether CAS 107-98-2
triethanolamine CAS 102-71-6

SECTION 04 PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: 197-203 Deg F (initial)
Vapor pressure: 9mm Hg
Vapor density (Air=1): not determined
Water solubility: Complete
Melting/Freezing point: Much less than 0.0 deg F
Appearance: Orange colored liquid. Slightly more viscous than water.
Specific Grav. (water=1): 1.051
Percentage volatiles in concentrate: Approx. 26.4% due to solvent
Evaporation rate: much slower than 1 (n-butyl acetate = 1)
pH of concentrate: 11.8 ± .2 pH working/use solution: 10.3 ± .3
Odor: Strongly ammoniacal odor in concentrate. Slightly ammoniacal and vegetable soap odor in dilution.

SECTION 05 PHYSICAL HAZARD DATA

Flash point: 210 DEG F (closed cup)
Flammable limits: not determined
Fire fighting media: Water spray, CO₂, alcohol foam, dry chemical - Treat primary cause of fire.
Special fire fighting procedures: If quantities of material are stored near cause of fire, self contained breathing device should be used.
Fire/Explosion Hazards: Contains class IIIA combustible liquid. Do not heat above 140° for extended period of time.

SECTION 06 REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will not occur
Conditions to Avoid: Long exposure to materials containing copper, aluminum and strong oxidizing agents.
Incompatible Materials: Strong oxidizing or reducing agents.
Hazardous Decomposition products: Acid smoke and fumes emitted when heated to decomposition. CO, CO₂, NO, and ammonia may be produced on thermal decomposition.

SECTION 06: HEALTH HAZARD DATA

Oral Toxicity: Not determined for formulation.
 Skin Toxicity: Not known for formulation; Rabbit Skin LD₅₀ 1.0g/Kg for MEA in formulation.
 Carcinogenicity: None of the individual materials in this formulation are listed as carcinogens in NTP, IARC Monographs, or are OSHA Regulated carcinogens.

SECTION 07: SYMPTOMS OF OVEREXPOSURE

Symptoms of Ingestion: Of concentrate. May cause nausea, vomiting and abdominal pain. Incoordination, diarrhea and general weakness. Ingestion may cause red blood cell hemolysis and possible liver and kidney injury.
 Symptoms of Inhalation: If misted in concentrated form can cause irritation of mucous membrane, nose, eye and throat.
 Symptoms of Skin Contact: May cause dermatitis or irritation in some individuals upon prolonged contact. Localized skin debility can be expected from concentrated material on prolonged contact.
 Symptoms of Eye Contact: Causes painful stinging or burning of eyes and lids, watering of eye, conjunctivitis, and in concentrated, undiluted form, may cause opaqueness of cornea, possibly leading to loss of sight.

SECTION 08: EMERGENCY FIRST AID PROCEDURES

For Ingestion of concentrate: Do not induce vomiting. Immediately give two glasses of water or milk to dilute. Never give anything to an unconscious person. Call a physician. Treatment should be directed at the control of symptoms and the clinical condition of the patient. There is no specific antidote. Main hazard is due to irritant properties of amines. Bronchodilators, expectorants, and antitussives may be of help.
 For ingestion of use solution: Give two glasses water to dilute. Call Physician. Severe consequences should not be expected.
 For Skin: AS for all foreign materials, wash off concentrate or diluted use solution with water. Remove clothing which has been saturated by concentrate. Do not allow prolonged contact with the concentrated, undiluted material as toxic amounts can be absorbed if skin contact is of prolonged duration.
 For Eyes: PROMPTLY flush with large amounts of water occasionally lifting the lower and upper lids. Call a physician if irritation persists.
 Medical conditions aggravated by exposure: No data found.

SECTION 09: OCCUPATIONAL CONTROL PROCEDURES

Ventilation: Use with adequate ventilation. Working solution should not present any specific hazard. If misted or aerosol generated, use local or mechanical ventilation to maintain vapor concentration below TLV.
 Respiratory Protection: Not required under normal working/use conditions.
 Eye Protection: Not normally required. Use if in specific applications splashes or mists will get into eyes.
 Skin Protection: Use gloves if hands will be continuously in solution. Not normally necessary in general use.
 Personal Hygiene: As in handling any detergent, wash thoroughly after using.

SECTION 10: PRECAUTIONS FOR SAFE HANDLING, STORAGE AND USE

Precautionary Measures: Avoid contact with eyes and prolonged contact of concentrate with skin. Avoid breathing misted vapors. Use with adequate ventilation. Do not store at elevated temperatures.
 Spills/Clean-up Procedures: Concentrated materials only come in 5.25 ounce bags limiting any spills to very small quantities. Paper toweling or mopping is usually sufficient.
 Disposal Methods: Bags should be disposed of in normal waste.

GENERAL NOTE ABOUT SFS PAC PRODUCTS

SFS Pac Degreaser detergent formulation is not substantially different from any other commercially or household degreasing formulations. The unique packaging of SFS Pac materials in a small unit closed bags of 5.25 ounce bags limits the amount of exposure of the concentrate to very small amounts. Spills can be cleaned up with paper toweling or plain mopping, as these are in fact products for mopping as well as other maintenance chores. We know of no serious hazards associated with the proper use and handling of this product. As with any strong detergent and solvent formulation, good housekeeping procedures and care in following directions will insure proper use. The use dilution of this product for mopping is 1:100 (5.25 ozs in 4 gals) with water.

PortonPac Chemical Corporation makes no warranty, expressed or implied, as to the accuracy, completeness or reliability of this information, except that such information is, to the best of PortonPac Chemical Corporation's knowledge and belief, accurate as of the date indicated.

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

In Concentrate:

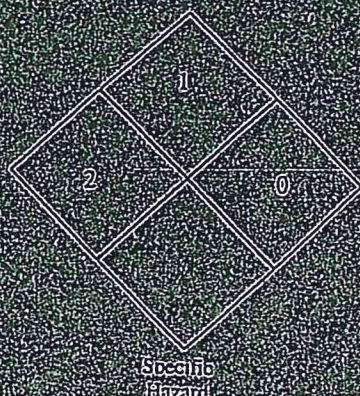
Fire Hazard

SFS 30 REVISED: 7/93

In Dilution:

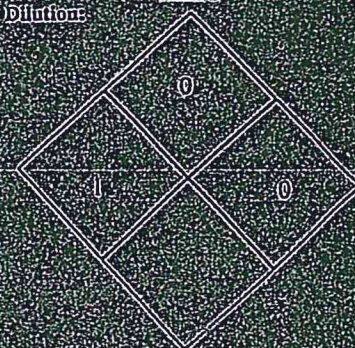
Fire Hazard

Health Hazard



Reactivity

Health Hazard



Reactivity

SFS 30

MATERIAL SAFETY DATA SHEET
MSDS L-159 REVISION 9

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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

Medical Emergencies: 1-888-689-9082
CHEMTREC: 1-800-424-9300 (24 Hours Daily)

PRODUCT: Liquid Antimicrobial Soap DATE OF ISSUE: April 10, 2012
TRADE NAMES/SYNONYMS: Professional™ Liquid Dial® Antimicrobial Soap – Gold
Professional™ Liquid Dial® Antimicrobial Soap With Moisturizers & Vitamin E
CHEMICAL FAMILY: Mixture
I.D.H. NUMBERS: 1666502 (Liquid Dial Gold); 1666636 (Liquid Dial with Moisturizers & Vitamin E)

SECTION 2: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION: This product is a clear gold or opaque white liquid with a pleasant fragrance. Direct contact with eyes may cause irritation. Repeated or prolonged excessive contact with skin may cause irritation or dermatitis. No significant environmental effects. Not a fire hazard. Product is stable.

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

REGULATORY STATUS

While this product is not considered to be hazardous under OSHA's Hazard Communication Standard (29 CFR 1900.1200), this MSDS includes valuable information that is critical for safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.

POTENTIAL HEALTH EFFECTS

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

EYE CONTACT: This product may cause irritation.
SKIN CONTACT: Repeated or prolonged excessive contact may cause irritation or dermatitis.
INGESTION: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
INHALATION: Unlikely to occur due to the physical properties of the product.

CHRONIC HEALTH EFFECTS: None known.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: Pre-existing skin conditions.

POTENTIAL ENVIRONMENTAL EFFECTS

See Section 12: Ecological Information.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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

<u>INGREDIENT</u>	<u>CAS NUMBER</u>	<u>PERCENT (w/w)</u>
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LIQUID HAND SOAP
Ammonium Lauryl Sulfate

68081-96-9

MSDS L-159 (Rev. 9)
5 – 10 %

April 10, 2012

Sodium Laureth Sulfate

68585-34-2

1 – 5 %

Lauramide DEA

120-40-1

1 – 5 %

Glycerin

56-81-5

1 – 5 %

SECTION 4: FIRST AID MEASURES

EYES: Rinse eyes immediately with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persists.

SKIN: Rinse affected area with plenty of water until no evidence of product remains. Get medical attention if irritation persists.

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

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

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

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

OSHA FLAMMABILITY CLASSIFICATION: Not applicable

FLASH POINT: None

UPPER FLAMMABILITY LIMIT: Not applicable

LOWER FLAMMABILITY LIMIT: Not applicable

AUTO-IGNITION TEMPERATURE: Not applicable

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

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

EXTINGUISHING MEDIA

Dry chemical, carbon dioxide, water spray or regular foam.

PROTECTION OF FIREFIGHTERS

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Use flooding amounts of water as a fog, solid streams may be ineffective. Avoid breathing vapors; keep upwind.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear skin, eye and respiratory protection as recommended in Section 8. Stop or reduce any leaks if it is safe to do so. Spills present a slipping hazard. Keep unnecessary personnel away. Ventilate spill area if possible. Make sure area is slip-free before re-opening to traffic.

ENVIRONMENTAL PRECAUTIONS

Small or household quantities may be disposed in sewer or other liquid waste system. For larger quantities check with your local water treatment plant.

METHODS FOR CONTAINMENT AND CLEAN UP

SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. **LARGE SPILLS:** Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

SECTION 7: HANDLING AND STORAGE

HANDLING:

Do not get in eyes. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists.

STORAGE:

Store in original containers in a cool dry area. Store away from incompatible substances and excessive heat. Storage areas for large quantities (warehouse) should be well ventilated. Keep the containers tightly closed when not in use.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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

WORKER EXPOSURE LIMITS

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

INGREDIENT	CAS NUMBER	EXPOSURE LIMIT
Glycerin	56-81-5	TLV-TWA: 10 mg/m ³ (mist), PEL-TWA: 5mg/m ³ (respirable fraction), PEL-TWA: 10 mg/m ³ (total mist)

ENGINEERING CONTROLS: Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the permissible exposure limits where mists or vapors may be generated.

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

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

CLOTHING: Protective clothing is required where repeated or prolonged skin contact may occur.

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

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear light peach color base with dark peach beads.	PHYSICAL STATE:	Liquid
ODOR/ODOR THRESHOLD:	Pleasant fragrance	VAPOR DENSITY:	Not available
pH (@ 25°C):	5.3 -- 7.7	VAPOR PRESSURE:	Not available
BOILING POINT:	Not available	FLASH POINT:	See Section 5.
MELTING/FREEZING POINT:	Not available	SOLUBILITY IN WATER:	Nearly Complete
FLAMMABLE PROPERTIES:	See Section 5.	EVAPORATION RATE:	Not available
DENSITY/SPECIFIC GRAVITY:	1.017		
OCTANOL/WATER PARTITION COEFFICIENT (K_{ow}):	Not available		

VISCOSITY: 3000-6000 cps @ 25°C (Brookfield LVF, Spindle #3, 12 rpm)

SECTION 10: STABILITY AND REACTIVITY

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

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

INCOMPATIBLE MATERIALS: Strong oxidizers, acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may release toxic and/or hazardous gases, including ammonia.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION SUMMARY: This product is a personal care product. The use of this product by consumers is safe under normal and reasonable foreseen use. Direct contact with eyes may cause irritation. Repeated or prolonged excessive contact with skin may cause irritation or dermatitis.

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

INGREDIENT	LD50 / DRAIZE SCORE	TOXICITY / IRRITATION RATING
ACUTE ORAL TOXICITY		
Glycerin	12,600 mg/kg (rat)	Non-hazardous
Lauramide DEA	2,700 mg/kg (rat)	Moderately Toxic
ACUTE DERMAL TOXICITY		
Glycerin	> 10,000 mg/kg (rabbit)	Non-hazardous
ACUTE INHALATION TOXICITY		
Glycerin	> 570 mg/m ³ (rat)	Toxic

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

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

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

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

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

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

SECTION 12: ECOLOGICAL INFORMATION

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

PRODUCT / INGREDIENT	LC50/EC50 (ANIMAL SPECIE)	TOXICITY RATING
VERTEBRATES		
Glycerin	96-hr LC50: 50 mg/L (Oncorhynchus mykiss)	Harmful
INVERTEBRATES		
Glycerin	24-hr EC50: > 500 mg/L (Daphnia magna)	Practically Non-Hazardous

LIQUID HAND SOAP

MSDS L-159 (Rev. 9)

April 10, 2012

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

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

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

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

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE NUMBER AND DESCRIPTION: Not applicable, not regulated.

DISPOSAL CONSIDERATIONS: This product is not a RCRA hazardous waste and can be disposed of in accordance with federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

GROUND TRANSPORT

DOT Hazard Class:	Not regulated	Packing Group:	Not applicable
DOT Proper Shipping Name:	Not applicable	Shipping Label Information:	Not applicable
UN/NA Number:	Not applicable		

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Hazard Class:	Not regulated
ICAO/IATA Proper Shipping Name:	Not applicable

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Hazard Class:	Not regulated
IMDG/IMO Proper Shipping Name:	Not applicable

SECTION 15: REGULATORY INFORMATION

UNITED STATES:

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

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

FOOD AND DRUG ADMINISTRATION:

This product is regulated as an over-the-counter (OTC) drug under the Food and Drug Administration.

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

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

This product contains no CERCLA/SARA Title III materials. This product contains no hazardous chemicals reportable under Sections 311/312. This product contains no hazardous chemicals reportable under Section 304.

TSCA: All components of this product are either listed on or exempt from the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

STATE REGULATIONS

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

CANADA:

CANADIAN ENVIRONMENTAL PROTECTION ACT:

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

HEALTH CANADA:

This product is regulated as a cosmetic product under the Cosmetics Programme.

WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM:

WHMIS CLASSIFICATION: Not subject to classification.

SECTION 16: OTHER INFORMATION

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

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

MSDS CREATION DATE: 05/20/96

SUPERCEDES: 03/24/09, Rev. 8

REVISION DATE: 04/10/12

REVISION: Updated Trade Names, Formula I.D. Numbers and Formula Composition.

MATERIAL SAFETY DATA SHEET
COMPLIES WITH OSHA's HAZARD COMMUNICATION STANDARD (29 CFT 1910.1200)

SECTION I – PRODUCT IDENTIFICATION

Product Name: Non-Acid Bathroom Disinfectant
Product Number: #22
Product Type: Liquid Disinfectant Cleaner
Supplier's Name: AMERICLEAN
Supplier's Address: PO Box 90384, Nashville, TN 37209

Date Prepared: 10/25/10
Emergency Phone: 615-350-9000

HMIS Rating
Minimal: 0 Slight: 1
Moderate: 2 Serious: 3
Extreme: 4
HEALTH: 1/**FIRE:** 0/
REACTIVITY: 0

SECTION II – HAZARDOUS INGREDIENTS

Chemical Name	CAS#	OSHA	TLV (source)	Wt. %
Alkyl dimethyl benzyl ammonium chloride (C12-16)	68424-85-1	N/A	N/A	<.1
Octyl decyl dimethyl ammonium chloride	32426-11-2	N/A	N/A	<.1
Dioctyl dimethyl ammonium chloride	5538-94-3	N/A	N/A	<.1
Didecyl dimethyl ammonium chloride	7173-51-5	N/A	N/A	<.1

SECTION III – PHYSICAL DATA

Boiling Point: 212°F
PH: 7.99
Solubility in Water: Complete
Appearance/Odor: Clear blue liquid, floral odor.

Evaporation Rate (Butyl Acetate = 1): Not determined
Melting Point: N/A
Vapor Density (Air = 1): Not Determined
Specific Gravity (H20 = 1): .9992

SECTION IV – FIRE AND EXPLOSION DATA

Flash Point: None when heated to 102C
Extinguishing Media: Use any agent appropriate for fire
Unusual Fire and Explosion Hazards: Irritating and toxic
Gases or fumes may be released

Flammability Limits: None
Special Fire Fighting Procedures: Full protective clothing, self-contained breathing apparatus.

SECTION V – REACTIVITY DATA

Stability: Material stable.
Incompatibility: Strong oxidizing agents, reducing agents

Hazardous Polymerization: Will not occur.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide and toxic hydrogen chloride vapors.

SECTION VI – STORAGE AND HANDLING

Precautions to be Taken in Handling/Storage: Avoid skin and eye contact. Wash thoroughly after handling with soap and water. Keep containers tightly closed and in a cool, well ventilated area. Keep from freezing.

SECTION VII – HEALTH AND FIRST AID

Eyes: Immediately flush eyes with water for fifteen minutes, remove contact lens after first 5 minutes, then continue rinsing. Seek medical attention.

Skin: Flush with water for 15 minutes. Remove any contaminated clothing and wash before reuse.

Ingestion: Call poison control center or doctor for treatment advice. Have a person sip a glass of water if able. Do not induce vomiting unless told to do so. Do not give anything by mouth to unconscious person.

Inhalation: If symptoms occur move victim to fresh air. If symptoms persist get medical attention.

SECTION VIII – SPECIAL PROTECTION DATA

Protective Gloves: Recommended
Eye Protection: Goggles/Face Shield
Respiratory Protection: Not normally required

Ventilation: Local exhaust.
Other Protective Clothing/Equipment: Eyewash station and safety shower in work area.

SECTION IX – SPILL OR LEAK PROTECTION

Steps to be Taken in Case of Spill or Leak: Isolate spill or leak area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Absorb spill or cover with dry earth, sand or other non-combustible material and transfer to containers.

Waste Disposal Method: Dispose of waste in accordance with Federal, State and Local requirements.

N/A = NON APPLICABLE N/E = NOT ESTABLISHED N/D = NOT DETERMINED N/L = NOT LISTED

NOTICE: The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty (expressed or implied) of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: AMERICAN HARD WATER DISH MACHINE DET DATE: 12/26/91
 PRODUCT CODE: 8902.5 PERSONAL PROTECTION: SEE SECTION VII

HMIS RATING:

HEALTH=3 FLAMMABILITY=0 REACTIVITY=1 CORROSIVITY=1

GENERAL INFORMATION:

CHEMICAL FAMILY: ALKALINE MIXTURE

FORMULA: N/A

MANUFACTURER: TRT INC.

MANUFACTURER'S ADDRESS: 2712 CAMDEN RD., PINE BLUFF, AR. 71603

MANUFACTURER'S PHONE: 1-800-344-5091

EMERGENCY PHONE: 1-800-844-1345

SECTION II: HAZARDOUS INGREDIENTS

NAME:	CAS#	%	TLV
Sodium hydroxide	1310-73-2	12<	2mg/m3
Sodium metasilicate	06834-92	2>	2mg/m3
Sodium tripolyphosphate	7758-29-4	1>	5mg/m3

SECTION III: PHYSICAL DATA

BOILING POINT: 212f
 SPECIFIC GRAVITY: 1.144
 VAPOR PRESSURE: NOT TESTED
 PERCENT VOLITILE BY VOLUME: 1
 VAPOR DENSITY: 0.1
 EVAPORATION RATE: 1
 SOLUBILITY IN WATER: 100%
 PH of 1% AQUEOUS SOLUTION: 13.5
 APPEARANCE AND ODOR: CLEAR NO ODOR

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NONE
 FLAMMABLE LIMITS: N/A
 EXTINGUISHING METHOD: FOAM AND CARBON DIOXIDE AND WATER FOG
 UNUSUAL FIRE AND EXPLOSION HAZARDS: MATERIAL IS CORROSIVE, IF INVOLVED IN FIRE DO NOT GET ON SKIN.
 SPECIAL FIRE FIGHTING PROCEDURES: WEAR PROTECTIVE GEAR FOR CORROSIVE MATERIALS.

AMERICAN HARD WATER DISH MACHINE DETERGENT

PAGE 2

SECTION V: HEALTH HAZARD DATA**EFFECTS OF OVER EXPOSURE:**

SKIN: Long term exposure may result in burns or severe irritation.

EYES: Exposure may result in chemical burns and blindness.

INHALATION: May cause irritation of the mucus membranes in the nose and esophagus if sprayed.

INGESTION: May cause moderate to severe burns of the esophagus, nausea, vomiting, diarrhea and possible shock.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

Pre-existing conditions of dermatitis may be aggravated by exposure to this material. Preclude from exposure individuals with pulmonary disease..

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: Flush eyes for at least 15 minutes with large quantities of water. Seek medical attention.

SKIN CONTACT: Wash with large quantities of soap and water. Wash all contaminated clothing before reuse.. Rinse with vinegar, seek medical attention if symptoms persist.

INHALATION: Remove victim to fresh air. If breathing becomes difficult, oxygen should be administered by qualified personnel. Seek medical attention..

INGESTION: Drink large quantities of water. DO NOT INDUCE VOMITING. Seek medical attention.

CARCINOGENICITY: Not listed (OSHA, NTP, IARC MONOGRAPHS)

TERATOGENICITY: Not listed.

MUTAGENICITY: Not listed

SECTION VI: REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Contact with strong acids.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen, a highly flammable gas may form if material comes into contact with aluminum.

SECTION VII: SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain spill and neutralize with diluted solutions of vinegar, citric acid or muriatic acid.. Absorb into material such as sand or diatomaceous earth. Shovel into none leaking containers.

WASTE DISPOSAL METHOD: Contact local, state or federal authorities for proper waste disposal procedure..

Product may be flushed down sewer after neutralization if allowed by above regulations.

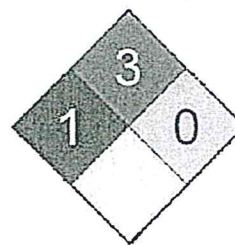
AMERICAN HARD WATER DISH MACHINE DETERGENT**PAGE 3****SECTION VIII: SAFE HANDLING AND USE INFORMATION****RESPIRATORY PROTECTION:** Not necessary under normal useage.**VENTILITATION:** Local exhaust is adequite.**PROTECTIVE GLOVES:** Chemical reslstant.**EYE PROTECTION:** Safety splash goggles.**OTHER PROTECTIVE EQUIPMENT:** Rubber apron.**SECTION IX: SPECIAL PRECAUTIONS****PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Keep away from alkaline materils, bleach and strong oxidizers. CHLORINE GAS MAY BE RELEASED IF MIXED WITH BLEACH.**OTHER PRECAUTIONS:** Do not store in steel or aluminum containers. Store in a cool place.**HAZARD CLASS:** CORROSIVE LIQUID UN1760**DOT LABEL:** CORROSIVE**THE INFORMATION IS GIVEN IN GOOD FAITH AND BELEIVED TO BE RELIABLE, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.****END OF REPORT**

1. Product and Company Identification

Product Name Professional LYSOL® Brand III Disinfectant Spray (all sizes, all scents)
CAS # Mixture
Product use Disinfectant
Distributed by Reckitt Benckiser
 Morris Corporate Center IV
 399 Interpace Parkway
 P.O. Box 225
 Parsippany, NJ 07054-0225
 In Case of Emergency: 1-800-338-6167
 Transportation Emergencies: 24 Hour Number:
 North America: CHEMTREC: 1-800-424-9300
 Outside North America: 1-703-527-3887

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 1
Flammability	3
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency overview

This product is regulated by the US EPA as a disinfectant.
PRECAUTIONARY STATEMENTS: Hazards to humans and domestic animals.
CAUTION
 Causes moderate eye irritation. Do not spray in eyes, on skin or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.
PHYSICAL HAZARDS: FLAMMABLE
 Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Eyes	Causes moderate eye irritation.
Skin	Moderately irritating to the skin.
Inhalation	None expected during normal conditions of use. However intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Ingestion	Contains denatured ethyl alcohol. May be harmful if swallowed.
Target organs	Blood. Liver. Respiratory system. Central nervous system. Heart.
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms	Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
OSHA Regulatory Status	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Potential environmental effects	Components of this product have been identified as having potential environmental concerns.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Ethanol	64-17-5	40 - 60
Butane	106-97-8	2.5 - 10
Propane	74-98-6	1 - 2.5
Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium saccharinate	Not Applicable	0 - 0.1

4. First Aid Measures

First aid procedures

Eye contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. All contaminated clothes and shoes are to be removed and washed before reuse. If symptoms persist, call a physician.
Inhalation	Move exposed person to fresh air. Get medical attention immediately.
Ingestion	If swallowed, call physician or Poison Control Centre immediately.
Notes to physician	Contains denatured ethanol; ingestion may result in ethanol poisoning. Symptoms may be delayed. Treat patient symptomatically.
General advice	Do not puncture or incinerate container. Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit www.inhalant.org.

5. Fire Fighting Measures

Flammable properties	Flammable aerosol by flame projection test. Aerosol flame extension less than 18 inches (45 cm). Containers may explode when heated. NFPA AEROSOL LEVEL: Flammability Rating 1, per NFPA 30B
Extinguishing media	
Suitable extinguishing media	Water spray. Dry chemical. Carbon dioxide.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Remove sources of ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite.

7. Handling and Storage

Handling

Ensure adequate ventilation.
Wear appropriate personal protective equipment when handling this product.
Wash hands after handling and before eating.
Avoid contact with eyes, skin and clothing.
Do not ingest.
Avoid breathing vapors or mists of this product.
CONTENTS UNDER PRESSURE. DO NOT use in presence of open flame or spark. DO NOT puncture or incinerate container or store at temperatures over 50°C. DO NOT use on polished wood furniture, rayon fabrics, or acrylic plastics. Avoid contact with eyes and food. EXTREMELY FLAMMABLE
Contents under pressure.
Do not puncture or incinerate container.

Storage

Store in original container in areas inaccessible to small children.
STORE IN A COOL PLACE AND AWAY FROM DIRECT SUNLIGHT.
Keep away from heat, open flames or other sources of ignition.
Do not reuse container.
Do not puncture or incinerate container.

NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit www.inhalant.org.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)	Exposure Limits
Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium saccharinate	ACGIH-TLV Not established OSHA-PEL Not established
Butane	ACGIH-TLV TWA: 1000 ppm OSHA-PEL Not established
Ethanol	ACGIH-TLV TWA: 1000 ppm STEL: 1000 ppm OSHA-PEL TWA: 1000 ppm
Propane	ACGIH-TLV TWA: 1000 ppm OSHA-PEL TWA: 1000 ppm

Engineering controls

Provide adequate ventilation.

Personal protective equipment

Eye / face protection

Avoid contact with eyes. tightly fitting safety goggles
Emergency responders should wear full eye and face protection.

Hand protection	Not normally required when used as directed. Avoid contact with the skin. Emergency responders should wear impermeable gloves.
Skin and body protection	As required by employer code.
Respiratory protection	Not normally required if good ventilation is maintained. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2). Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

9. Physical and Chemical Properties

Appearance	Misty spray
Color	Clear
Form	Aerosol
Odor	Characteristic
Odor threshold	Not available
Physical state	Gas
pH	10.8 - 11.8
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	78.08 °F (25.6 °C)
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	0.882 @ 25°C (Concentrate)
Octanol/water coefficient	Not available
Solubility (H₂O)	Complete
VOC (Weight %)	Not available
Viscosity	Not available
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Heat, open flames, static discharge, sparks and other ignition sources. Aerosol containers are unstable at temperatures above 49°C (120.2°F). Do not freeze. Exposure to moisture.
Incompatible materials	Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium saccharinate	Not available
Butane	Not available
Ethanol	31623 ppm rat
Propane	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium saccharinate	Not available
Butane	Not available
Ethanol	3450 mg/kg mouse; 7060 mg/kg rat
Propane	Not available

Effects of acute exposure

Eye	Causes moderate eye irritation.
Skin	Moderately irritating to the skin.
Inhalation	None expected during normal conditions of use. However intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Ingestion	Contains denatured ethyl alcohol. May be harmful if swallowed.
Sensitization	The finished product is not expected to have chronic health effects.
Chronic effects	The finished product is not expected to have chronic health effects.
Carcinogenicity	The finished product is not expected to have chronic health effects.

ACGIH - Threshold Limit Values - Carcinogens

Ethanol	64-17-5	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
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Mutagenicity	The finished product is not expected to have chronic health effects.
Reproductive effects	The finished product is not expected to have chronic health effects.
Teratogenicity	The finished product is not expected to have chronic health effects.
Name of Toxicologically Synergistic Products	Not available

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Ethanol	64-17-5	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 12.0 - 16.0 mL/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : >100 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 13400 - 15100 mg/L [flow-through]
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Ecotoxicity - Water Flea - Acute Toxicity Data

Ethanol	64-17-5	48 Hr LC50 <i>Daphnia magna</i> : 9268 - 14221 mg/L; 24 Hr EC50 <i>Daphnia magna</i> : 10800 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : 2 mg/L [Static]
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Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Mobility in environmental media	Not available
Environmental effects	Not available
Aquatic toxicity	Not available
Partition coefficient	Not available
Chemical fate information	Not available

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations. CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. IF EMPTY: Place in trash or offer for recycling if available. IF PARTLY FILLED: Call your local waste agency for disposal instructions.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

U.S. Department of Transportation (DOT)

UN1950, Aerosols, flammable, Class 2.1 Re-Classed as Limited Quantity

Transportation of Dangerous Goods (TDG - Canada)

UN1950, Aerosols, flammable, Class 2.1 Re-Classed as Limited Quantity

IMDG (Marine Transport)

UN 1950, Aerosols, flammable, Class 2.1

UN 1950, Aerosols, Flammable, Limited Quantity or

Consumer Commodity, ID 8000 if acceptable to airline.

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
Product Registration: Registered with EPA, EPA Reg. No. 777-99-675

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

State regulations

See below

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Butane 106-97-8 Present

U.S. - Massachusetts - Right To Know ListButane 106-97-8 Present
Ethanol 64-17-5 Teratogen
Propane 74-98-6 Present**U.S. - Minnesota - Hazardous Substance List**Butane 106-97-8 Present
Ethanol 64-17-5 Present
Propane 74-98-6 Simple asphyxiant**U.S. - New Jersey - Right to Know Hazardous Substance List**Butane 106-97-8 sn 0273
Ethanol 64-17-5 sn 0844
Propane 74-98-6 sn 1594**U.S. - Pennsylvania - RTK (Right to Know) List**Butane 106-97-8 Present
Ethanol 64-17-5 Present
Propane 74-98-6 Present**U.S. - Rhode Island - Hazardous Substance List**Butane 106-97-8 Toxic; Flammable
Ethanol 64-17-5 Toxic; Flammable
Propane 74-98-6 Toxic; Flammable**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

16. Other Information**Disclaimer**

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

Further information

Professional LYSOL® Brand III Disinfectant Spray - Country - 19 oz - 0175919 v1.0
 Professional LYSOL® Brand III Disinfectant Spray - Crisp Linen - 19 oz - 0175917 v1.0
 Professional LYSOL® Brand III Disinfectant Spray - Spring Waterfall - 19 oz - 0175918 v1.0
 Professional LYSOL® Brand III Disinfectant Spray - Original - 19 oz - 0175933 v1.0
 Professional LYSOL® Brand III Disinfectant Spray - Fresh - 19 oz - 0175940 v2.0

Issue date

17-May-2012

Effective date

15-Mar-2012

Prepared by

Reckitt Benckiser Regulatory Department 800-333-3899

Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.



The Clorox Company
 1221 Broadway
 Oakland, CA 94612
 Tel. (510) 271-7000

Material Safety Data Sheet

Product: CLOROX® DISINFECTING WIPES ₁ – LEMON FRESH													
Description: CLEAR, COLORLESS, THIN, FRAGRANCED LIQUID ABSORBED INTO WHITE, NON-WOVEN WIPES													
Other Designations	Distributor												
EPA Reg. No. 5813-79	Clorox Sales Company 1221 Broadway Oakland, CA 94612												
Emergency Telephone Nos.													
For Medical Emergencies, call 1-800-446-1014. For Transportation Emergencies, call 1-800-424-9300 (Chemtrec).													
II Health Hazard Data	III Hazardous Ingredients												
<p>May cause moderate eye irritation. Prolonged skin contact may result in minor irritation.</p> <p>No medical conditions are known to be aggravated by exposure to this product.</p> <p>FIRST AID:</p> <p>EYE CONTACT: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation persists, call a doctor.</p> <p>SKIN CONTACT: Wash thoroughly with soap and water. If irritation persists, call a doctor.</p> <p>INGESTION: Drink a glassful of water. Call a doctor or poison control center.</p> <p>INHALATION: Move person to fresh air. If breathing problems develop, call a doctor.</p>	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>n-Alkyl (5% C₁₂, 60% C₁₄, 30% C₁₆; 5% C₁₈) dimethyl benzyl ammonium chloride CAS # 68391-01-5</td> <td>0.1 - 0.2%</td> <td>Not established.</td> </tr> <tr> <td>n-Alkyl (68% C₁₂, 32% C₁₄) dimethyl ethylbenzyl ammonium chloride CAS # 68956-79-6</td> <td>0.1 - 0.2%</td> <td>Not established.</td> </tr> <tr> <td>Isopropyl alcohol CAS # 67-63-0</td> <td>0.5 - 2%</td> <td>200 ppm - TLV-TWA^a 400 ppm - PEL^b 400 ppm - TLV-STEL^c</td> </tr> </tbody> </table> <p>^aACGIH Threshold Limit Value - Time Weighted Average ^bOSHA Permissible Exposure Limit - Time Weighted Average ^cACGIH Threshold Limit Value - Short Term Exposure Limit</p> <p>None of the materials in this product are on the IARC, OSHA, or NTP carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	n-Alkyl (5% C ₁₂ , 60% C ₁₄ , 30% C ₁₆ ; 5% C ₁₈) dimethyl benzyl ammonium chloride CAS # 68391-01-5	0.1 - 0.2%	Not established.	n-Alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethylbenzyl ammonium chloride CAS # 68956-79-6	0.1 - 0.2%	Not established.	Isopropyl alcohol CAS # 67-63-0	0.5 - 2%	200 ppm - TLV-TWA ^a 400 ppm - PEL ^b 400 ppm - TLV-STEL ^c
Ingredient	Concentration	Worker Exposure Limit											
n-Alkyl (5% C ₁₂ , 60% C ₁₄ , 30% C ₁₆ ; 5% C ₁₈) dimethyl benzyl ammonium chloride CAS # 68391-01-5	0.1 - 0.2%	Not established.											
n-Alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethylbenzyl ammonium chloride CAS # 68956-79-6	0.1 - 0.2%	Not established.											
Isopropyl alcohol CAS # 67-63-0	0.5 - 2%	200 ppm - TLV-TWA ^a 400 ppm - PEL ^b 400 ppm - TLV-STEL ^c											
IV Special Protection and Precautions	V Transportation and Regulatory Data												
<p>Hygienic Practices: Wash hands after direct contact.</p> <p>Engineering Controls: Use general ventilation to minimize exposure to product mist.</p> <p>Personal Protective Equipment: Wear safety glasses. Wear rubber or neoprene gloves for sensitive skin or if there is the potential for repeated or prolonged skin contact. In situations where exposure limits may be exceeded, a NIOSH-approved respirator is advised.</p> <p>Avoid contamination of food. A potable water rinse is required for surfaces that may come into contact with food. Not for cleaning or sanitizing skin. Do not use as a diaper wipe or for personal cleansing.</p>	<p>DOT: Not restricted per 49 CFR 173.120(a)(5).</p> <p>IMDG: Not restricted per IMDG Code Section 2.3.1.3.3.</p> <p>IATA: Not restricted per IATA D.G.R. Section 3.3.1.3(c).</p> <p>EPA - SARA Title III/CERCLA: This product is regulated under Sections 311/312. This product contains no chemicals that are regulated under Section 313 or under Section 304/CERCLA.</p> <p>TSCA 8(b): All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.</p> <p>TSCA 12(b): This product is not subject to TSCA 12(b) reporting requirements.</p>												
VI Spill Procedures/Waste Disposal	VII Reactivity Data												
<p>Spill Procedures: Containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.</p> <p>Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.</p>	<p>Stable under normal use and storage conditions.</p> <p>Do not store near heat or open flame.</p>												
VIII Fire and Explosion Data	IX Physical Data												
<p>Flash Point (liquid): 58°C (closed cup)</p> <p>Fire Extinguishing Agents: Dry chemical, carbon dioxide (CO₂), foam, or water spray.</p>	<p>pH (liquid) 5 - 7</p> <p>Specific gravity (liquid)..... ~1.0</p> <p>Solubility in water (liquid)..... Soluble</p>												

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: AMERICAN DRYING AGENT BLUE

DATE: 12/28/91

PRODUCT CODE: 8825.8

PERSONAL PROTECTION: SEE SECTION VII

HMIS RATING:

HEALTH=1

FLAMMABILITY=0

REACTIVITY=0

CORROSIVITY=0

GENERAL INFORMATION:

CHEMICAL FAMILY: SURFACTANT MIXTURE

FORMULA: N/A

MANUFACTURER: TRT INC.

MANUFACTURER'S ADDRESS: 2712 CAMDEN RD., PINE BLUFF, AR. 71609

MANUFACTURER'S PHONE: 1-800-344-5091

EMERGENCY PHONE: 1-800-844-1345

SECTION II: HAZARDOUS INGREDIENTS

NAME:	CAS#	%	TLV
NONE			

SECTION III: PHYSICAL DATA

BOILING POINT: 212

SPECIFIC GRAVITY: 1.081

VAPOR PRESSURE: 0.1

PERCENT VOLITILE BY VOLUME: 78

VAPOR DENSITY: 0.1

EVAPORATION RATE: 1

SOLUBILITY IN WATER: 100%

PH of 1% AQUEOUS SOLUTION: 6.0-7.0

APPEARANCE AND ODOR: BLUE LIQUID

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NONE

FLAMMABLE LIMITS: N/A

EXTINGUISHING METHOD: Use carbon dioxide or dry foam for small fires. Use foam and water spray for large fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

SPECIAL FIRE FIGHTING PROCEDURES: Self contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

AMERICAN DRYING AGENT BLUE**PAGE 2****SECTION V: HEALTH HAZARD DATA****EFFECTS OF OVER EXPOSURE:****EYES:** MAY cause burns to eyes.**EMERGENCY AND FIRST AID PROCEDURES:****EYE CONTACT:** Flush eyes for at least 15 minutes with large quantities of water.**CARCINOGENICITY:** Not listed (OSHA, NTP, IARC MONOGRAPHS)**TERATOGENICITY:** Not listed.**MUTAGENICITY:** Not listed**SECTION VI: REACTIVITY DATA****STABILITY:** Stable**CONDITIONS TO AVOID:** Contact with strong oxidizing material.**HAZARDOUS POLYMERIZATION:** Will not occur.**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition or burning may produce carbon mono/dioxides.**SECTION VII: SPILL OR LEAK PROCEDURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Contain spill and use absorbent material to collect and contain for disposal.**WASTE DISPOSAL METHOD:** Contact local, state or federal authorities for proper waste disposal procedure..

AMERICAN DRYING AGENT BLUE

PAGE 3

SECTION VIII: SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not necessary.

VENTILATION: Local exhaust is adequate.

PROTECTIVE GLOVES: Not needed

EYE PROTECTION: Safety splash goggles.

OTHER PROTECTIVE EQUIPMENT: Not necessary

SECTION IX: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a well ventilated area at temperatures below 120 degrees.

OTHER PRECAUTIONS:

HAZARD CLASS: NONE

DOT LABEL: NONE

THE INFORMATION IS GIVEN IN GOOD FAITH AND BELIEVED TO BE RELIABLE, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

END OF REPORT

Procter & Gamble

Professional[®]

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Mr. Clean Finished Floor Cleaner - concentrate
Product Code 95970698
Version # 06
Revision date 10-15-2013
Manufacturer Procter & Gamble Professional
Address 2 P&G Plaza
Cincinnati
Ohio
45202
US
P&G Telephone Number: 1-800-332-7787
Emergency 24-hr Telephone #: CHEMTREC 1-800-424-9300

2. Hazards Identification

Potential health effects

Routes of exposure Ingestion. Inhalation. Skin contact. Eye contact.
Eyes May cause moderate but transient eye irritation.
Skin May cause transient irritation. Prolonged or repeated contact may be drying to skin.
Inhalation May be irritating.
Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential environmental effects

Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered minimal.

3. Composition / Information on Ingredients

Components	CAS #	Percent
ALCOHOL ETHOXYLATE	68551-12-2	1 - 5
SODIUM CARBONATE	497-19-8	1 - 5

4. First Aid Measures

First aid procedures

Eye contact After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if symptoms persist.
Skin contact Wash affected area with mild soap and water. Rinse with plenty of water. Get medical attention if irritation develops and persists.
Inhalation Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion Drink 1 or 2 glasses of water. Never give liquid to an unconscious person. Do not induce vomiting without advice from poison control center. Get medical attention if any discomfort continues.

5. Fire Fighting Measures

Environmental precautions

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

Extinguishing media

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

Protection of firefighters

Protective equipment and precautions for firefighters Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

Auto-ignition temperature 446 °F (230 °C) estimated

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Wear suitable protective clothing.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Clean-up methods and materials and containment measures In case of spills, beware of slippery floors and surfaces. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

7. Handling and Storage

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

Storage Store in a cool and well-ventilated place. Keep from freezing.

8. Exposure Controls / Personal Protection

Engineering controls Provide adequate ventilation.

Personal protective equipment

Eye / face protection Not normally needed. If contact is likely, safety glasses with side shields are recommended.

Skin protection Not normally needed. If prolonged or repeated contact is likely, protective gloves are recommended. Recommended gloves include rubber or neoprene.

Respiratory protection Not normally needed.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color Light yellow.

Form Liquid.

Odor Lemon Scented

pH 10.4

Melting point 1563.8 °F (851 °C) estimated

Freezing point 32 °F (0 °C)

Boiling point 212 °F (100 °C) estimated

Flash point > 201.00 °F (> 93.89 °C)

Evaporation rate Not available.

Vapor pressure 29.393483547 hPa estimated

Specific gravity 1.019

Solubility (water) Complete

Partition coefficient (n-octanol/water) Not available

VOC Not available.

Percent volatile 88.94 % estimated

Density 1.24 g/cm³ estimated

10. Chemical Stability & Reactivity Information

Chemical stability This is a stable material.

Conditions to avoid	None known.
Hazardous decomposition products	No hazardous decomposition products are known.
Hazardous polymerization	Will not occur.

11. Toxicological Information

Toxicological data

Components

Test Results

SODIUM CARBONATE (497-19-8)

Acute Inhalation LC50 Guinea pig: 0.8 mg/l 2 Hours

Acute Inhalation LC50 Mouse: 1.2 mg/l 2 Hours

Acute Inhalation LC50 Rat: 2.3 mg/l 2 Hours

Acute Oral LD50 Rat: 4090 mg/kg

Acute Other LD50 Mouse: 116.6 mg/kg 30 Days

ALCOHOL ETHOXYLATE (68551-12-2)

Acute Dermal LD50 Rat: >= 2000 mg/kg Data based on components and the toxicology of similar products.

Acute Oral LD50 Rat: >= 2000 mg/kg Data based on components and the toxicology of similar products.

Sensitization Not available.

Chronic effects Not available.

Skin corrosion/irritation Not available.

12. Ecological Information

Environmental effects

Based on ecotoxicity and fate data for the individual ingredients in this specific formulation, and for related consumer household cleaning products formulations, this product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment at relevant environmental concentrations. This product is intended for dispersive use and should not be disposed of directly into the environment.

13. Disposal Considerations

Disposal instructions

This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport Information

DOT

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

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

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical Yes

State regulations

ILLRTK

Contains no Illinois Right To Know toxic substances.

US - Illinois Chemical Safety Act: Listed substance

US - Massachusetts RTK - Substance: Listed substance

Contains no Massachusetts Right To Know substances.

US - New Jersey Community RTK (EHS Survey): Listed substance

US - New Jersey RTK - Hazardous substance

US - New Jersey RTK - Special Hazard: Listed substance

Contains no New Jersey Right To Know special hazards.

US - New Jersey RTK - Substances: Listed substance

Contains no New Jersey Right To Know Substances

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Contains no Pennsylvania Right To Know hazardous substances

US - Rhode Island RTK - Hazardous Substances: Listed substance

Contains no Rhode Island Right To Know hazardous substances.

Canadian regulations

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

Inventory Status

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

16. Other Information

HMIS® ratings

Health: 2
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 1
Instability: 0

Disclaimer

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

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

Material Safety Data Sheet



Hi-Tech **Fl**oor Finisher

1. Product and company identification

Product name : Hi-Tech
Supplier : Betco Corporation
1001 Brown Avenue
Toledo, Ohio 43607
(800) 333-2156
Manufacturer : Betco Corporation
1001 Brown Avenue
Toledo, Ohio 43607
Code : 610
MSDS # : 610
Validation date : 12/5/2012.
Print date : 12/5/2012.
In case of emergency : Chemtrec (800) 424-9300
Product type : Liquid.

2. Hazards identification

Emergency overview

Physical state : Liquid.
Color : White.
Odor : Characteristic.
Signal word : CAUTION!
Hazard statements : MAY CAUSE EYE AND SKIN IRRITATION.
Precautionary measures : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Routes of entry : Dermal contact. Eye contact. Ingestion.

Potential acute health effects

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

Potential chronic health effects

Chronic effects : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.
Medical conditions aggravated by over-exposure : None known.

See toxicological information (Section 11)

3. Composition/information on ingredients

Name	CAS number	%
2-(2-ethoxyethoxy)ethanol	111-90-0	1 - 5
tris(2-butoxyethyl) phosphate	78-51-3	1 - 5

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

4. First aid measures

Eye contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. In case of contact with eyes, rinse immediately with plenty of water.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Ingestion	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Notes to physician	: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product	: In a fire or if heated, a pressure increase will occur and the container may burst.
<u>Extinguishing media</u>	
Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
Special exposure hazards	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
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

6. Accidental release measures

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

7. Handling and storage

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

8. Exposure controls/personal protection

Ingredient	Exposure limits
2-(2-ethoxyethoxy)ethanol	AIHA WEEL (United States, 5/2010). TWA: 25 ppm 8 hour(s).

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. <1 hours (breakthrough time): disposable vinyl

8. Exposure controls/personal protection

- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: safety glasses with side-shields
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

- Physical state** : Liquid.
- Flash point** : Closed cup: >120°C (>248°F) [Product does not sustain combustion.]
- Color** : White.
- Odor** : Characteristic.
- pH** : 8.1 to 8.9
- Relative density** : 1.0277
- Dispersibility properties** : Partially dispersible in the following materials: cold water.
- Solubility** : Partially soluble in the following materials: cold water.

10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-(2-ethoxyethoxy)ethanol tris(2-butoxyethyl) phosphate	LD50 Oral	Rat	7500 mg/kg	-
	LD50 Oral	Rat	3 g/kg	-

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-(2-ethoxyethoxy)ethanol	Eyes - Mild irritant	Rabbit	-	125 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
tris(2-butoxyethyl) phosphate	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Hi-Tech

11. Toxicological information

				milligrams	
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Conclusion/Summary : Not available.

Sensitizer

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
2-(2-ethoxyethoxy)ethanol	Acute LC50 3340000 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - 0 to 24 hours	48 hours
tris(2-butoxyethyl) phosphate	Acute LC50 6010000 ug/L Fresh water	Fish - Ictalurus punctatus - 0.72 g	96 hours
	Acute LC50 11200 ug/L Fresh water	Fish - Pimephales promelas - 31 days - 19.6 mm - 0.119 g	96 hours

Conclusion/Summary : Not available.

Persistence/degradability

Conclusion/Summary : Not available.

13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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 packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

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

14. Transport information

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

PG* : Packing group

15. Regulatory information

HCS Classification : Irritating material
 U.S. Federal regulations : TSCA 4(a) final test rules: (2-methoxymethylethoxy)propanol
 TSCA 5(a)2 proposed significant new use rules: 5-chloro-2-methyl-2H-isothiazol-3-one; 2-methyl-2H-isothiazol-3-one
 TSCA 8(a) PAIR: tris(2-butoxyethyl) phosphate; (2-methoxymethylethoxy)propanol
 TSCA 8(a) IUR Exempt/Partial exemption: Not determined
 United States Inventory (TSCA 8b): Not determined.
 TSCA 8(c) calls for record of SAR: tris(2-butoxyethyl) phosphate
 SARA 302/304/311/312 extremely hazardous substances: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
 SARA 302/304/311/312 hazardous chemicals: 2-(2-ethoxyethoxy)ethanol
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification:
 Diethylene glycol ethyl ether: Fire hazard, Immediate (acute) health hazard
 Clean Water Act (CWA) 307: tetraamminezinc(2+) carbonate
 Clean Water Act (CWA) 311: ammonia; potassium hydroxide

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	2-(2-ethoxyethoxy)ethanol	111-90-0	1 - 5

15. Regulatory information

Supplier notification	2-(2-ethoxyethoxy)ethanol	111-90-0	1 - 5
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SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations

- Massachusetts : None of the components are listed.
- New York : None of the components are listed.
- New Jersey : The following components are listed: GLYCOL ETHERS
- Pennsylvania : The following components are listed: GLYCOL ETHERS
- Canada inventory : Not determined.

International regulations

- International lists :
 - Australia inventory (AICS): Not determined.
 - China inventory (IECSC): Not determined.
 - Japan inventory: Not determined.
 - Korea inventory: Not determined.
 - New Zealand Inventory of Chemicals (NZIoC): Not determined.
 - Philippines inventory (PICCS): Not determined.

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

16. Other information

Label requirements : MAY CAUSE EYE AND SKIN IRRITATION.

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

Health	2
Flammability	1
Physical Hazards	0

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

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

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



16. Other information

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

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

Date of printing : 12/5/2012.
Date of issue : 12/5/2012.
Date of previous issue : 10/4/2012.
Version : 0.03
Prepared by : Not available.

Indicates information that has changed from previously issued version.

Notice to reader:

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

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

MATERIAL SAFETY DATA SHEET

Page 1 of 3

SECTION I PRODUCT IDENTIFICATION

PRODUCT TRADE NAME: Floor Finish Formulation
 CHEMICAL NAME: Super Pro
 MANUFACTURER: SunStar Super Systems, Inc.
 EFFECTIVE DATE: April 22, 1992
 FORMULA: SP 100

SECTION II PHYSICAL DATA

BOILING POINT: 212°F DOT HAZARD CLASS
 FREEZING POINT: Variable NONREGULATED
 SPECIFIC GRAVITY (H₂O=1): Variable
 PERCENT VOLATILE BY WEIGHT: 65% Water minimum
 VAPOR DENSITY (AIR=1): ~ 1 (Water)
 EVAPORATION RATE (H₂O=1): 1
 SOLUBILITY IN WATER: Infinitely miscible
 pH: 7.0 to 9.5
 APPEARANCE AND ODOR: Clear or translucent with mild odor

SECTION III COMPOSITION INFORMATION

Ingredient	Approx. Wt. %	SARA-313	CAS Number
Water	65 minimum		7732-18-5
Acrylate Copolymer	25 maximum		may be CAS
number 25987-66-0, 63744-68-3, 65405-61-0, 67366-74-9, 67892-91-5, 67952-78-7			
Glycol Ethers	10 maximum		see Section IV
Tri(butoxyethyl) Phosphate	2 maximum		78-51-3
Zinc Oxide Complex	1 maximum	Yes	1314-13-2

SECTION IV HAZARDOUS INGREDIENTS

Ingredient	Percent	TLV	PEL(TWA)	STEL	CAS Number
Ammonium Hydroxide	1% max	25 ppm	50 ppm	35 ppm	1336-21-6
May contain one or more of the following:					
Glycol Ether DE	10% max				111-90-0
Glycol Ether DM	10% max				111-77-3
Glycol Ether PM	10% max				107-98-2
Glycol Ether DPM	10% max				34590-94-8

SECTION V TOXICOLOGICAL PROPERTIES

LD50: Not determined.
 THRESHOLD LIMIT VALUE: No limit determined.
 EFFECTS OF ACUTE EXPOSURE:
 INGESTION: Nausea may occur.
 INHALATION: Prolonged exposure may produce headaches, and mucous membrane irritation.
 SKIN CONTACT: Direct contact may cause irritation.
 EYE CONTACT: Direct contact will cause irritation.
 EFFECTS OF CHRONIC EXPOSURE: None determined.

SECTION VI PREVENTIVE MEASURES

RESPIRATORY PROTECTION:

None required in well ventilated areas. An approved organic-vapor full face respirator is advised for poorly ventilated areas.

VENTILATION:

LOCAL EXHAUST:

None required.

MECHANICAL (GENERAL):

Provide adequate ventilation.

PROTECTIVE GLOVES:

Rubber gloves should be worn.

EYE PROTECTION:

Approved safety glasses with side shields should be worn.

OTHER PROTECTIVE EQUIPMENT:

Protective work clothing should be worn.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store at 40°F to 90°F.

This product is for Industrial Use only.

Keep from Freezing.

Keep away from Fire and Heat. (Any ignition source)

Keep containers closed when not in use.

Provide adequate ventilation.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Halt spill at source and contain or dike spill with inert absorbent material.

Transfer liquid to containers for recovery or disposal. Shovel absorbent into drums for disposal in accordance with local, state, and federal regulations.

RECOMMENDED WASTE DISPOSAL METHODS:

Material should not be flushed into sewer system. If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it has neither the characteristics of Subpart C nor is listed in Subpart D. After the material has been collected, dispose of in accordance with all regulations applicable to non-hazardous liquid wastes.

SECTION VII FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES:

INGESTION:

Induce vomiting and call a physician.

INHALATION:

Remove to fresh air and consult physician if symptoms persist.

SKIN CONTACT:

Promptly wash with soap and water, and rinse thoroughly. Remove contaminated clothing and shoes.

EYE CONTACT:

Promptly flush with a large amount of water for at least 15 minutes. Contact physician if symptoms persist.

SECTION VIII REGULATORY INFORMATION

SARA / SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III)

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355)

This product does not contain materials listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370)

Materials listed in 29 CFR 1910, Subpart Z are identified in Section IV.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372)

Listed materials contained in this product are specifically identified in Sections III or IV of this MSDS.

TOXIC SUBSTANCES CONTROL ACT (TSCA)

The chemical ingredients in this product are on the 8(B) Inventory List (40 CFR 710).

SunStar Super Systems, Inc.
293 32 1/2 Street
Gulfport, MS 39507
(601) 863-0763

MATERIAL SAFETY DATA SHEET

Page 3 of 3

SECTION IX FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Greater than 250°F.
AUTOIGNITION TEMPERATURE: Greater than 250°F.
EXTINGUISHING MEDIA: Water mist, Foam, CO₂, Dry chemical.
FLAMMABLE LIMITS - LOWER: Not Applicable.
UPPER: Not applicable.
SPECIAL FIREFIGHTING PROCEDURES: Toxic gasses may be released. Use self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

SECTION X HAZARD RATING INFORMATION

HAZARD RATING

4 = EXTREME
3 = HIGH
2 = MODERATE
1 = SLIGHT
0 = INSIGNIFICANT

FIRE

TOXI-
CITY



REAC-
TIVITY

SPECIAL

SECTION XI REACTIVITY DATA

STABILITY:
CONDITIONS TO AVOID:

Stable.
Temperatures of 212°F or over
will cause boiling of water.

INCOMPATIBILITY:
HAZARDOUS POLYMERIZATION:
HAZARDOUS DECOMPOSITION PRODUCTS:

Treat as water.
Will not occur.
Thermal decomposition on burning
may produce toxic gasses.

SECTION XII USER'S RESPONSIBILITY

SunStar Super System cannot anticipate all conditions of handling and use of this product. Therefore, SunStar Super System accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products.

It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. SunStar Super Systems will accept no liability for damages or loss incurred from the improper handling and use of this product.

SECTION XIII PREPARATION INFORMATION

This Material Safety Data Sheet was prepared by: SunStar Super Systems, Inc.
293 32 1/2 Street
Gulfport, MS 39507
(601) 863-0763
FAX: (601) 863-9598

MATERIAL SAFETY DATA SHEET

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

PortionPac Chemical Corporation

100 N. Ashland Ave., Chicago, IL 60622

TELEPHONE 312/226-0400 FAX 312/226-5400

SECTION 01 IDENTIFICATION

MSDS NO. 200 Series DATE: January, 1994

TRADE NAME: **Germicidal Detergent No. 201, 202, 204, 205 & 264**

NOTE: CAS Registry numbers are not applicable to formulated products.

SECTION 02 PHYSICAL & HEALTH HAZARDOUS INGREDIENTS

Hazardous Material as defined by 29 CFR 1910.1200 Reportable under CERCLA or SARA TITLE III Sec. 304 Regulations.

Common Name:	ethanolamine, MEA, monoethanolamine		
CAS Registry No.:	141-43-5		
Chemical name:	monoethanolamine, 2-aminoethanol		
Hazard % in formula:	In concentrate: 7.95%	In working/use solution: 0.031%	
Hazard Reference:	3 ppm ACGIH 85/86 Ref. (1) Sec. IX LD ₅₀ rats 10.2g/Kg J.IND:HYG:TOXICOL 23, 259 (1941)		

Common Name:	butyl cellosolve, Poly Solv EB		
CAS Registry No.:	111-76-2		
Chemical Name:	2-butoxyethanol		
Hazard % in formula:	In concentrate: 2.0%	In working/use solution: 0.008%	
Hazard reference:	50 ppm OSHA PEL 25 ppm ACGIH TLV IDLH 700 ppm		

SECTION 02A OTHER INGREDIENTS NOT CONSIDERED HAZARDOUS IN FORMULATION

NOTE: Germicidal detergents contain germicidal active agents. By definition, these agents are biologically active so that they can kill bacteria and viruses on contact. Even though they are not listed by OSHA et. al. as hazardous materials. Safe handling procedures and common sense should be used in their use and handling.

water	
alkyl dimethyl benzyl ammonium chloride	CAS 08424-85-1
nonylphenoxy poly(ethyleneoxy)ethanol	CAS 9016-45-9
tetrapotassium pyrophosphate	CAS 7320-34-5
EDTA	CAS 64-02-5

SECTION 03 PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point:	190 deg. F.	
Vapor pressure:	19mm Hg	
Vapor density (Air=1):	Not determined.	
Water solubility:	Complete.	
Melting/Freezing point:	< 0 deg. F.	
Appearance:	Red liquid, slightly more viscous than water.	
Specific Grav. (water=1):	1.056	
Percentage volatiles in concentrate:	Approx. 65% due to water in formulation.	
Evaporation rate:	Much slower than 1 (n-butyl acetate = 1)	
pH:	In concentrate: 12.5 ± .2	In working/use solution: 9.6 ± .3
Odor:	Fresh, antiseptic odor.	

SECTION 04 PHYSICAL HAZARD DATA

Flash point:	214 deg. F Closed cup.
Flammable limits:	Not determined.
Fire fighting media:	Water spray, CO ₂ , dry chemical;— Treat primary cause of fire.
Special fire fighting procedures:	N/A.
Fire/Explosion Hazards:	No unusual hazards known.

SECTION 05 REACTIVITY DATA

Stability:	Stable.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Long exposure to materials containing copper, aluminum and strong oxidizing agents may cause discoloration.
Incompatible Materials:	Strong oxidizing or reducing agents.
Hazardous Decomposition products:	If heated to decomposition, CO, CO ₂ , NO _x and ammonia may be produced.

SECTION 06 HEALTH HAZARD DATA

Oral Toxicity:	Not determined for formulation.
Carcinogenicity:	None of the individual materials in this formulation are listed as carcinogens in NTP, IARC Monographs, or are OSHA Regulated carcinogens.

■ **SECTION 07 SYMPTOMS OF OVEREXPOSURE**

Symptoms of Ingestion: When concentrate is ingested, immediate burning pain in the mouth, throat, abdomen and possible severe swelling of the larynx. Possible skeletal muscle paralysis affecting the ability to breath with circulatory shock if large quantities are ingested. Possible convulsions. May cause red blood cell hemolysis and possible liver and kidney injury. May be fatal.

Symptoms of Inhalation: If misted in concentrated form, which is improper use, can cause irritation of mucous membrane, nose, eye and throat.

Symptoms of Skin Contact: May cause dermatitis or irritation in some individuals upon prolonged contact. Localized skin defatting can be expected from concentrated material on long contact. Harmful if absorbed through skin.

Symptoms of Eye Contact: Causes painful stinging or burning of eyes and lids, watering of eye, conjunctivitis and, in concentrated undiluted form, may cause opaqueness of cornea, possibly leading to loss of sight. Corrosive.

■ **SECTION 08 EMERGENCY FIRST AID PROCEDURES**

For Ingestion: Do not induce vomiting. Immediately drink large quantity of water. If vomiting occurs, give fluids again. NEVER give anything to an unconscious person. Call a physician. Possible mucosal damage may contraindicate the use of gastric lavage.

For Skin: As for all foreign materials, wash off with water. Remove clothing which has been saturated by concentrate. Do not allow prolonged contact with the concentrated undiluted material as toxic amounts can be absorbed. Decontaminate affected clothing and shoes.

For Eyes: PROMPTLY flush with large amount of water occasionally lifting the lower and upper lids. Call a physician if irritation persists.

Medical Conditions —

Aggravated By Exposure: No data found.

■ **SECTION 09 OCCUPATIONAL CONTROL PROCEDURES**

Ventilation: Use with adequate ventilation. Working solution should not present any specific hazard. If misted or aerosol generated, local or mechanical exhaust recommended to maintain vapor concentration below TLV. This level should not be reached under normal working conditions.

Respiratory Protection: Not required under normal working/use conditions.

Eye Protection: EPA recommends use of goggles to handle germicidal products.

Skin Protection: EPA recommends use of gloves to handle germicidal products.

Personal Hygiene: As in handling any germicidal detergent, wash thoroughly after using.

■ **SECTION 10 PRECAUTIONS FOR SAFE HANDLING STORAGE AND USE**

cautionary Measures: Avoid contact with eyes and prolonged contact of concentrate with skin. Use with adequate ventilation. Do not store at elevated temperatures.

Spills Clean-up Procedures: Concentrated materials are packed in unit dosed bags limiting any spills to very small quantities. Paper toweling or mopping is usually sufficient.

Disposal Method: Bags should be triple rinsed before disposal.

Food Contamination: Foods contaminated by germicides should be discarded and utensils, etc. should be rinsed with potable water before use.

■ **GENERAL NOTE ABOUT PORTION PAC PRODUCTS**

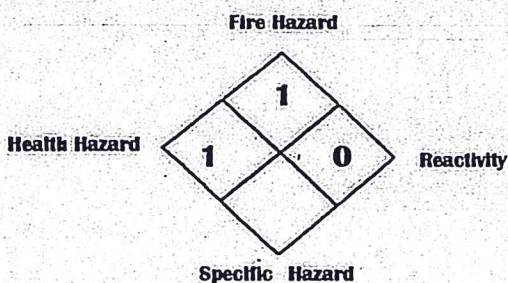
PortionPac Germicidal Detergent formulation is not substantially different from any other commercially available germicides. The unique packaging of these materials in unit dosed bags limits the amount of exposure of the concentrate to very small amounts. These can be cleaned up with paper toweling or plain mopping. These are in fact products for mopping as well as other maintenance chores requiring disinfectants. We know of no serious hazards associated with the proper use and handling of this product.

PortionPac Chemical Corporation makes no warranty, expressed or implied, as to the accuracy, completeness or reliability of this information, except that such information is, to the best of our knowledge and belief, accurate as of the date indicated.

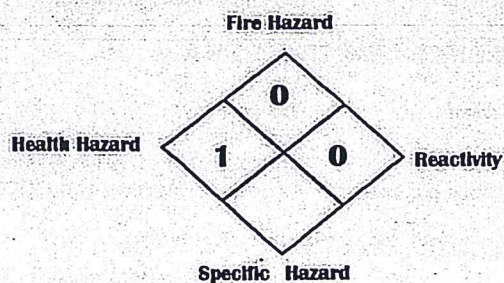
24 HOUR EMERGENCY RESPONSE PHONE: 1-800-536-5053

MSDS 201/202/204/205/264 REVISED: 1/94

In Concentrate:



In Dilution:





The Clorox Company
 1221 Broadway
 Oakland, CA 94612
 Tel. (510) 271-7000

Material Safety Data Sheet

I Product: CLOROX COMMERCIAL SOLUTIONS® GREEN WORKS™ NATURAL GLASS AND SURFACE CLEANER											
Description: LIQUID WITH LEMON ODOR											
Other Designations	Distributor	Emergency Telephone Nos.									
	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies call: 1-800-446-1014 For Transportation Emergencies, call Chemtrec: 1-800-424-9300									
II Health Hazard Data		III Hazardous Ingredients									
<p>Eye contact may result in temporary conjunctival redness. No medical conditions are known to be aggravated by exposure to this product.</p> <p>FIRST AID:</p> <p>EYE CONTACT: Flush eyes with plenty of water for 15 minutes. If irritation persists, call a doctor.</p> <p>SKIN CONTACT: Wash skin with water.</p> <p>INGESTION: Drink a glassful of water, do not induce vomiting. Call a doctor or poison control center.</p> <p>INHALATION: Remove to fresh air. If breathing problems develop, call a doctor.</p>		<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Ethyl alcohol CAS # 64-17-5</td> <td>1 - 3%</td> <td>1000 ppm - TLV-TWA 1000 ppm - PEL</td> </tr> <tr> <td>Alkyl polyglucoside CAS # 68515-73-1</td> <td>1 - 5%</td> <td>not established</td> </tr> </tbody> </table> <p>TLV-TWA = ACGIH Threshold Limit Value - Time Weighted Average PEL = OSHA Permissible Exposure Limit - Time Weighted Average</p> <p>None of the materials in this product are on the IARC, OSHA, or NTP carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	Ethyl alcohol CAS # 64-17-5	1 - 3%	1000 ppm - TLV-TWA 1000 ppm - PEL	Alkyl polyglucoside CAS # 68515-73-1	1 - 5%	not established
Ingredient	Concentration	Worker Exposure Limit									
Ethyl alcohol CAS # 64-17-5	1 - 3%	1000 ppm - TLV-TWA 1000 ppm - PEL									
Alkyl polyglucoside CAS # 68515-73-1	1 - 5%	not established									
IV Special Protection and Precautions		V Transportation and Regulatory Data									
<p>Hygienic Practices: Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods.</p> <p>Engineering Controls: Use local exhaust to minimize exposure to product mist.</p> <p>Personal Protective Equipment: Wear safety glasses. Wear rubber or neoprene gloves if there is the potential for repeated or prolonged skin contact. In situations where exposure limits may be exceeded, a NIOSH-approved respirator is advised.</p>		<p>DOT/IATA/IMDG: Not restricted.</p> <p>EPA - SARA Title III/CERCLA: This product is regulated under Sections 311/312. This product contains no chemicals which are regulated under Section 313 or regulated under Section 304/CERCLA.</p>									
VI Spill Procedures/Waste Disposal		VII Reactivity Data									
<p>Spill Procedures: Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.</p> <p>Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.</p>		Stable under normal use and storage conditions.									
VIII Fire and Explosion Data		IX Physical Data									
<p>Flash Point: >200°C (closed cup)</p> <p>Fire Extinguishing Agents: Dry chemical, carbon dioxide (CO₂), foam, or water spray.</p>		<p>pH..... ~7.0</p> <p>Specific gravity 1.0</p> <p>Solubility in water Soluble</p>									

MATERIAL SAFETY DATA SHEET

Manufacturer: Molnlycke, Inc.
P.O. Box 125
San Ramon, CA 94583-0125

Prepared by: U.S. Testing Co. Inc.
1415 Park Avenue
Hoboken, NJ 07030

by: William S. Gilman

May 18, 1990

Telephone Number for Information: (415) 830-2970
Emergency Telephone Number: Chem Trec (800) 424-9300

I. PRODUCT INFORMATION

Product: Tork® Mevon No. 55 (One quart container)
Chemical Name: Amphoteric and anionic surfactant system
Chemical Family: Liquid soap/detergent product
Formula: Lauric Acid; Myristic Acid
CAS Registry Number: 143-07-7; 544-63-8
DOT Shipping Name: None
DOT Hazard Class: None

II. HAZARDOUS INGREDIENTS

<u>Component(s)</u>	<u>%</u>
Lauric Acid	6.5
Myristic Acid	2.5
Potassium Hydroxide	4.35
Lauryl Glycinate	15.0

III. PHYSICAL AND CHEMICAL CHARACTERISTICS (FIRE AND EXPLOSION DATA)

Boiling Point, (°F): 215
Vapor Pressure (mm Hg): NA
Vapor Density (Air = 1): Lighter than air
Solubility in Water: Complete
Appearance and Odor: Cream colored thick liquid, sweet
fruity odor
Flash Point (°F): >212°F, No flash to this point
Freeze/Melt Point (°F): 30
Specific Gravity, 25°C: 1.04
Percent Volatiles by Volume: 81.9
Evaporation Rate: Like water
pH: 5% - 8.3
Flammability Limits in Air, % by Vol: NA
Extinguishing Media for Fires: Dry chemical, carbon dioxide, foam
or water fog, class BC, ABC fire
extinguisher
Special Fire Fighting Procedures: Self contained positive pressure
breathing apparatus and protective
clothing should be worn in fighting
fire involving chemicals.
Unusual Fire and Explosion Hazards: None known.

IV. PHYSICAL HAZARDS

Stability: Stable
Materials to Avoid: Strong oxidizing agents
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide and oxides of nitrogen
Hazardous Polymerization Products: Will not occur

V. HEALTH HAZARD DATA

TLV: None known OSHA PEL: None known LD₅₀ >16 g/kg
Carcinogen or Potential Carcinogen NPT: None IARC: None OSHA: None
Skin: None
Eyes: Contact with eyes is painful and irritating.
Inhalation: None
Effects of Overexposure: Chronic effects and medical conditions aggravated by overexposure to this product have not been established. Unnecessary exposure to this product or any chemical should be avoided.

VI. EMERGENCY FIRST AID PROCEDURES

Skin: Wash off skin with water. Remove contaminated clothing and clean before reuse.
Eyes: Flush immediately with plenty of water for at least 15 minutes.
Ingestion: If swallowed, consult a physician immediately.
Inhalation: If vapors or mist cause irritation or distress, remove to fresh air. Give oxygen or apply artificial respiration if needed.

VII. SPECIAL PROTECTION INFORMATION

Ventilation: Use adequate ventilation.
Respiratory Protection: None required
Eye Protection: None required
Protective Gloves: None required
Other Protective Equipment: None required

VIII. SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Storage Recommendations: Avoid overheating or freezing
Spill or Leak Procedures: Contain all spills and leaks to prevent discharge into the environment.
Small Spills: Soak up with absorbant, shovel into waste container, flush area with water.
Large Spills: Recover liquid for reprocessing or disposal.
Disposal Recommendations: Recover material or dispose (incineration is preferred) in accordance with all applicable federal, state and local regulations. Material collected with absorbant may be disposed in a permitted landfill in accordance with federal, state and local regulations. Empty container may retain vapor or product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.



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

MATERIAL SAFETY DATA SHEET

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

Issue Date: 09/12/2011
Issue Date: 07/2007

SECTION I - PRODUCT IDENTIFICATION

Identity: Mr. Clean Magic Eraser – Original & Extra Power
Brands: 1-800-248-1612 or call your Poison Control Center or your physician
P&G Telephone Number:
1-800-248-1612 or call your Poison Control Center or your physician.

SECTION II - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)
Health injuries are not known or expected under normal use.

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

Eye Contact: Irritating to eyes.

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

Inhalation: Ensure adequate ventilation.

Signs and Symptoms of Exposure:

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

Eye Contact: Dust from foam may cause mechanical irritation.

Skin: Dust from foam may cause mechanical irritation.

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

Medical Conditions Generally Known to be Aggravated by Exposure: None

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

SECTION III - COMPOSITION AND INGREDIENTS

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200, and/or WHMIS under the HPA:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition</u>	<u>LD50/LC50</u>
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NONE

SECTION IV – FIRST AID INFORMATION

First Aid Procedures:

Ingestion: If foam is ingested, contact a physician or veterinarian immediately. Intestinal blockage may be life threatening to some household pets..

Eye Contact: In case of eye irritation, flush thoroughly with water for 15 minutes. If irritation persists, seek medical advice.

Skin: In case of skin irritation, flush affected area thoroughly with water and apply a cold compress. If irritation persists, seek medical advice. Remove any contaminated clothing.

Inhalation: If respiratory irritation occurs, moving from the site of exposure to an area with fresh air. If irritation persists, seek medical advice.

Note to Physician: (if applicable)

Other: Consumer product package has the following precautionary statement: Consumer product package has the following precautionary statement: "Caution: keep out of reach of children. Keep out of reach of toddlers and pets to avoid accidental ingestion. Do not use on skin or other parts of the body. Using on skin will likely cause abrasions."

SECTION V - FIRE FIGHTING INFORMATION

Flash Point (Method Used): Closed Cup FP

Flashpoint:

This product does not sustain combustion when exposed to an open flame.

Flammable Properties:

Upper Flammable Limit: unknown

Lower Flammable Limit: unknown

Explosive Limits: UEL: unknown LEL: unknown

Auto-ignition Temperature: Unknown

Hazardous Combustion Products: Unknown

Explosion Data (Sensitivity to Mechanical Impact): NA

Explosion Data (Sensitivity to Static Discharge): NA

Extinguishing Media:

Suitable: Regular dry chemical, carbon dioxide, water, regular foam. For large fires use regular foam or flood with fine water spray.

Unsuitable:

Protection of Firefighters:

Specific Hazards Arising from the Material: None known

Protective Equipment and Precautions for Firefighters:

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None known

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

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

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

Other Information: (if applicable) NA

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling: None known

Precautions To Be Taken in Storage: None known

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: Workplace should have sufficient general.

Engineering Controls: Provide local ventilation.

Personal Protective Equipment (PPE):

Eye/Face Protection (Consumer Use): None needed when used as designed under normal use.

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

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

Respiratory Protection (Consumer Use): None needed when used as designed under normal consumer use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape):

Original & Extra Strength – white foam

Odor: None

Odor Threshold: Not applicable

Physical State: Liquid

Vapor Pressure (mm Hg): Below 2 mm Hg

Vapor Density (Air=1): NK

Boiling Point: NK

Partition Coefficient (n-octanol/water): NK

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

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

Reserve Alkalinity: NK

Solubility in Water: NK

Decomposition Temperature: NK

Evaporation Rate (nBuOAc=1): NK

Specific Gravity/Density: NK

Melting/Freezing Point: NK

pH ():: NK

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable at normal temperatures and pressures

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

Incompatible Materials: Avoid contact with strong oxidizers.

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

Possibility of Hazardous Reactions: No systemic effects expected.

SECTION XI - TOXICOLOGICAL INFORMATION

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: This finished consumer product is not carcinogenic.

NTP: No

IARC: No

SECTION XII - ECOLOGICAL INFORMATION

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

SECTION XIII - DISPOSAL CONSIDERATIONS

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

Non-Household Setting (US Federal):

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

Non-Household Setting (California): No

Household Use:

Product used in household may be disposed of in refuse.

SECTION XIV - TRANSPORT INFORMATION

Ground Transport (US DOT): Not regulated

Air Transport (IATA): Not regulated

Marine/Water Transport (IMDG): Not regulated

SECTION XV - REGULATORY INFORMATION

United States

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

EPA Registration Number: Not Applicable

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

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

California Registration Number: Not Applicable

State Right-to-Know and CERCLA:

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

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

Canada

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

SECTION XVI - OTHER INFORMATION

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

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

*N/A. - Not Applicable

*N/K. - Not Known

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

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

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

MATERIAL SAFETY DATA SHEET
PortionPac Chemical Corp
400 N Ashland Ave Chicago, IL 60622

TELEPHONE 312/228-0400 FAX 312/228-5400

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

SECTION 01 IDENTIFICATION

MSDS NO. 1800 Series DATE: March, 1993

TRADE NAME: **MopPacLITE/2 No. 1802 & MopPacLITE/4 No. 1804**

SECTION 02 PHYSICAL & HEALTH HAZARDOUS INGREDIENTS

Hazardous Material as defined by 29 CFR 1910.1200 Reportable under CERCLA or SARA TITLE III sec. 304 Regulations

Common Name: Isopropanol, IPA, 2-Propanol
CAS Registry No. 67-63-0
Chemical name: Isopropyl alcohol
Hazard % in formula: 4.5% in concentrate In working/use solution: 0.013%
Hazard Reference: TLV:TWA 400ppm, (980 mg/m³) NIOSH 400ppm 10hrTWA IDLH 20,000ppm

Common Name: DPM
CAS Registry No. 34590-94-8
Chemical Name: Dipropylene glycol monomethyl ether
Hazard % in formula: 9.0% in concentrate In working/use solution: 0.026%
Hazard reference: 100 ppm OSHA PEL

SECTION 02A OTHER INGREDIENTS NOT CONSIDERED HAZARDOUS IN FORMULATION

water
nonylphenoxy poly(ethyleneoxy)ethanol CAS 9016-45-9
propylene glycol monomethyl ether CAS 1320-67-8
fragrance
dye

SECTION 03 PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: 200 deg F (initial)
Vapor pressure: 2mm Hg
Vapor density (Air=1): Not determined
Water solubility: Complete
Melting/Freezing point: < 0 deg F
Appearance: Bright yellow clear liquid
Specific Grav. (water=1): 1.0192
Percentage volatiles in concentrate: Approx. 66.4% due to water and solvents
Evaporation rate: Much slower than 1 (n-butyl acetate = 1)
pH of concentrate: 7.1 ± .3 pH working/use solution: 7.0
Odor: Floral odor

SECTION 04 PHYSICAL HAZARD DATA

Flash point: 248 deg. F Closed cup
Flammable limits: Not determined
Fire fighting media: Water spray, CO₂, dry chemical;— Treat primary cause of fire.
Special fire fighting procedures: None
Fire/Explosion Hazards: None known

SECTION 05 REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will not occur
Conditions to Avoid: None known
Incompatible Materials: Strong oxidizing or reducing agents
Hazardous Decomposition products: CO, CO₂, NO_x released on burning

SECTION 06 HEALTH HAZARD DATA

Oral Toxicity: Not determined
Skin Toxicity: No known for formulation
Carcinogenicity: None of the individual materials in this formulation are listed as carcinogens in NTP, IARC Monographs, or are OSHA Regulated carcinogens.

SECTION 07 SYMPTOMS OF OVEREXPOSURE

Symptoms of Inhalation: If misted in concentrated form, which is improper use, can cause irritation of mucous membrane, nose, eye and throat.
Symptoms of Skin Contact: May cause dermatitis or irritation in some individuals upon prolonged contact. Localized skin defatting can be expected from concentrated detergent on long contact.
Symptoms of Eye Contact: Causes painful stinging or burning of eyes and lids, watering of eye, conjunctivitis, opaqueness of cornea, possibly leading to loss of sight.

SECTION 08 EMERGENCY FIRST AID PROCEDURES

For Ingestion: Suggest as a general precautionary measure, inducing vomiting by giving two glasses water and sticking finger down throat. NEVER give anything to an unconscious person. Call a physician.
For Skin: As for all foreign materials, wash off with water.
For Eyes: PROMPTLY flush with large amounts of water occasionally lifting the lower and upper lids. Call a physician if irritation persists.
Medical Conditions Aggravated By Exposure: No data found.

SECTION 09 OCCUPATIONAL CONTROL PROCEDURES

Ventilation: None normally required
Respiratory Protection: Not required under normal working/use conditions.
Eye Protection: Not normally required. Use if in specific applications splashes or mists will get into eyes.
Skin Protection: No normally required.
Personal Hygiene: As in handling any detergent, wash thoroughly after using.

SECTION 10 PRECAUTIONS FOR SAFE HANDLING STORAGE AND USE

Precautionary Measures: Avoid contact of concentrate with eyes and prolonged contact of concentrate with skin. Avoid breathing misted vapors.
Spills Clean-up Procedures: Concentrated materials are packed in 1/2 ounce bags limiting any spills to very small quantities. Paper toweling or mopping is usually sufficient.
Disposal Method: Empty bags should be rinsed and disposed of in normal waste.
Storage: No special requirements.

GENERAL NOTE ABOUT PORTION PAC PRODUCTS

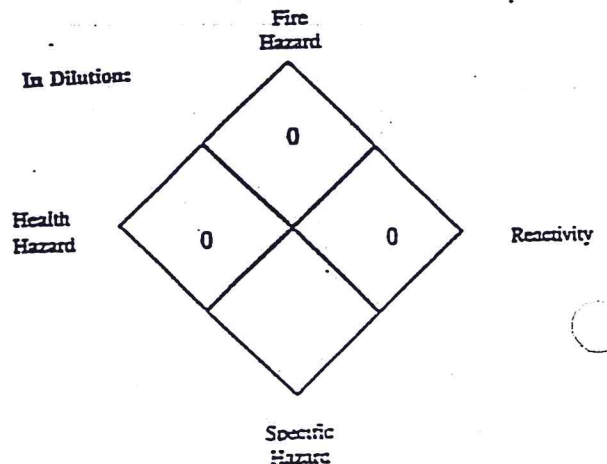
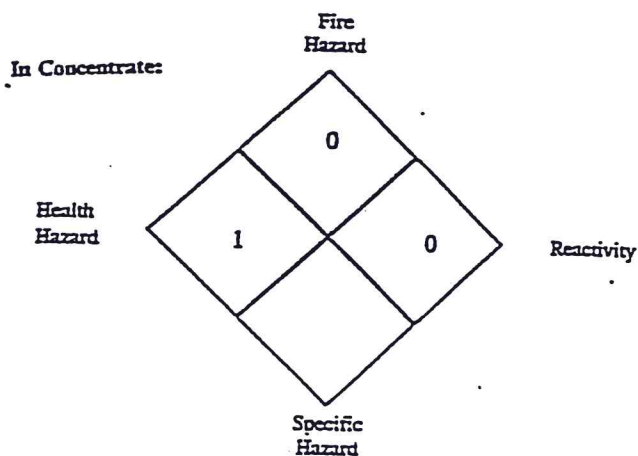
MopPacLITE is classified as hazardous because the mixture contains isopropanol and dipropylene glycol monomethyl ether. In a working, use solution, the material does not contain any material above the ~~de minimus~~ concentration of section 313. Any accidental contact would be expected to have only slight, transient effects similar to those produced by contact with any comparable household detergent.

PortionPac MopPacLITE detergent formulation is not substantially different from any other commercially available neutral hard surface cleaner. The unique packaging of PortionPac materials in small unit dosed bags of 3/4 and 1-1/2 ounces limits the amount of exposure of the concentrate to very small amounts. Spills can be cleaned up with paper toweling or plain mopping as this product is made for floor mopping. We know of no hazards associated with the proper use and handling of this product. MopPacLITE is diluted in normal use at 340 (i.e. 1-1/2 ounce with 4 gals) with water.

PortionPac Chemical Corporation makes no warranty, expressed or implied, as to the accuracy, completeness or reliability of this information, except that such information is, to the best of our knowledge and belief, accurate as of the date indicated.

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

1802/1804 REVISED: 03/93



MATERIAL SAFETY DATA SHEET

PortionPac Chemical Corp

100 N Ashland Ave Chicago, IL 60622-6382

Telephone 312/226-0400 FAX 312/226-5100

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

SECTION 01 IDENTIFICATION

MSDS No. 404 Rev 6 Date: March, 1993

Trade Name: **NeutraPac/4 Floor Conditioner/Neutralizer No. 404**

NOTE: CAS Registry numbers are not applicable to formulated products

SECTION 02 PHYSICAL & HEALTH HAZARDOUS INGREDIENTS

No hazardous material as defined by 29 CFR 1910, Sub Z. Not reportable under CERCLA or SARA TITLE III sec. 304 Regulations

SECTION 02A OTHER INGREDIENTS NOT CONSIDERED HAZARDOUS IN FORMULATION

water	
citric acid	CAS 77-92-9
nonylphenoxy poly(ethyleneoxy)ethanol	CAS 9016-45-9
sodium-n-methyl-n-oleoylaurate	CAS 137-20-2
dye	

SECTION 03 PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling point	>> 212 Deg F
Vapor pressure	Not determined
Vapor density (Air=1)	Not determined
Water Solubility	Complete
Melting/freezing point	< 32 Deg F
Appearance	Clear blue liquid
Specific grav. (water=1)	1.215
Percentage volatiles in concentrate	Approx. 58% due to water
Evaporation rate	much slower than 1) (n-butyl acetate = 1)
pH of concentrate	1.4 ± .1 pH working/use solution: 2.3
Odor	Very little detectable odor in concentrate or use solution.

SECTION 04 PHYSICAL HAZARD DATA

Flash point	Not applicable
Flammable limits	Not determined
Fire fighting media	Treat primary cause of fire
Special fire fighting procedures	None

SECTION 05 REACTIVITY DATA

Stability	Stable
Hazardous polymerization	Will not occur
Conditions to avoid	None known
Incompatible materials	Metal nitrates
Hazardous decomposition products	Not known

SECTION 06 HEALTH HAZARD DATA

Oral toxicity	Not determined
Skin toxicity	Not known for formulation
Carcinogenicity	None of the individual materials in this formulation are listed as carcinogens in NTP, IARC Monographs, or are OSHA Regulated carcinogens.

SECTION 07 SYMPTOMS OF OVEREXPOSURE

Symptoms of ingestion	May cause diarrhea
Symptoms of inhalation	If misted in concentrated form, can cause irritation of mucous membrane, nose, eye and throat.
Symptoms of skin contact	May cause dermatitis or irritation in some individuals upon prolonged contact
Symptoms of eye contact	Causes painful stinging or burning of eyes and lids; watering of eye

SECTION 08 EMERGENCY FIRST AID PROCEDURES

For ingestion: Suggest giving 1 - 2 glasses of water.
For skin: AS for all foreign materials, wash off concentrate or diluted Use solution with water.
For eyes: PROMPTLY flush with large amounts of water occasionally lifting the lower and upper lids. Call a physician if irritation persists.
Medical conditions aggravated by exposure: No data found

SECTION 09 OCCUPATIONAL CONTROL PROCEDURES

Ventilation: None normally required
Respiratory protection: Not required under normal working/use conditions.
Eye protection: Not normally required. Use if in specific applications splashes or mists will get into eyes.
Skin protection: Not normally required.
Personal hygiene: As in handling any detergent, wash thoroughly after using.

SECTION 10 PRECAUTIONS FOR SAFE HANDLING STORAGE AND USE

Precautionary measures: Avoid contact with eyes and prolonged contact of concentrate with skin.
Clean-up procedures: Concentrated materials are packed in 1-1/3 ounce bags limiting any spills to very small quantities. Paper toweling or mopping is sufficient.
Disposal method: Normal waste disposal of empty bags is recommended.

GENERAL NOTE ABOUT PORTION PAC PRODUCTS

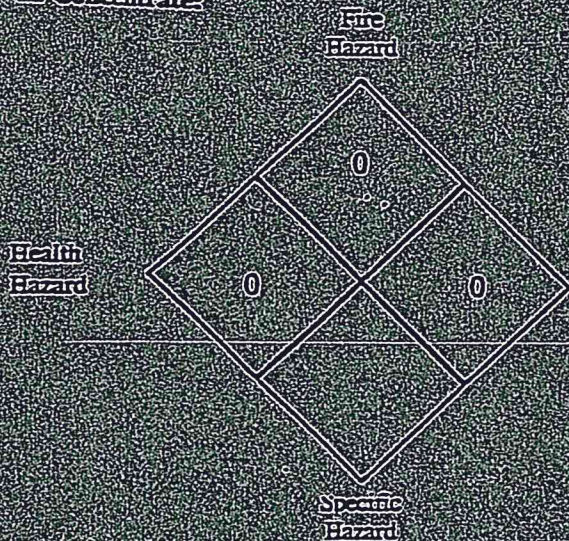
PortionPac NeutraPac Detergent formulation is not substantially different from any other commercially available floor neutralizer product. The unique packaging of PortionPac materials in small unit dosed bags of 1-1/3 ounce sizes limits the amount of exposure of the concentrate to very small amounts. These can be cleaned up with paper toweling or plain mopping. We know of no serious hazards associated with the proper use and handling of this product. NeutraPac is diluted in normal use 1:385 (i.e. 1-1/3 ounces with 4 gals) with water.

PortionPac Chemical Corporation makes no warranty, expressed or implied, as to the accuracy, completeness or reliability of this information, except that such information is, to the best of our knowledge and belief, accurate as of the date indicated.

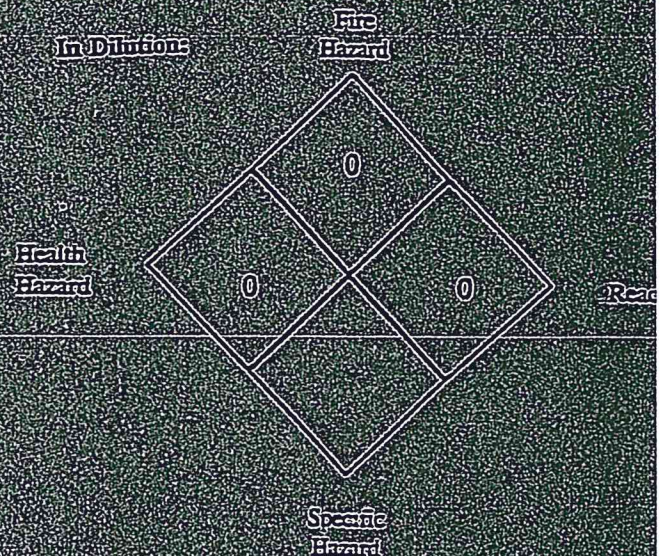
24 HOUR EMERGENCY RESPONSE PHONE: 1-300-535-5053

MSDS 404 Revised 3/93

In Concentrate



In Dilutions





The Clorox Company
 1221 Broadway
 Oakland, CA 94612
 Tel. 1-510-271-7000

Material Safety Data Sheet

I Product: LEMON FRESH PINE-SOL® MULTI-SURFACE CLEANER								
Description: CLEAR, YELLOW, SLIGHTLY VISCOUS LIQUID WITH A LEMON, GRAPEFRUIT, FLORAL ODOR								
Other Designations	Distributor	Emergency Telephone Nos.						
	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies, call 1-800-446-1014. For Transportation Emergencies, call 1-800-424-9300 (Chemtrec).						
II Health Hazard Data		III Hazardous Ingredients						
<p>Eye irritant.</p> <p>No medical conditions are known to be aggravated by exposure to this product.</p> <p>FIRST AID:</p> <p>EYE CONTACT: Immediately rinse with water for 15 minutes. If irritation persists, call a doctor.</p> <p>INGESTION: Drink a glassful of water. Call a doctor or poison control center.</p> <p>SKIN CONTACT: Rinse with plenty of water. If irritation persists, call a doctor.</p> <p>INHALATION: Move person to fresh air. If breathing problems develop, call a doctor.</p>		<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Alkyl alcohol ethoxylates CAS # 66455-15-0</td> <td>1 - 5%</td> <td>Not established.</td> </tr> </tbody> </table> <p>None of the materials in this product are on the IARC, OSHA, or NTP carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	Alkyl alcohol ethoxylates CAS # 66455-15-0	1 - 5%	Not established.
Ingredient	Concentration	Worker Exposure Limit						
Alkyl alcohol ethoxylates CAS # 66455-15-0	1 - 5%	Not established.						
IV Special Protection and Precautions		V Transportation and Regulatory Data						
<p>Hygienic Practices: Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods.</p> <p>Engineering Controls: Use local exhaust to minimize exposure to product mist.</p> <p>Personal Protective Equipment: Wear safety glasses. Wear rubber or neoprene gloves if there is the potential for repeated or prolonged skin contact.</p>		<p>DOT/IATA/IMDG: Not restricted.</p> <p>EPA - SARA Title III/CERCLA: This product is regulated under Sections 311/312. This product contains no chemicals that are regulated under Section 313 or under Section 304/CERCLA.</p> <p>TSCA 8(b): All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.</p> <p>TSCA 12(b): This product is not subject to TSCA 12(b) reporting requirements.</p>						
VI Spill Procedures/Waste Disposal		VII Reactivity Data						
<p>Spill Procedures: Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.</p> <p>Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.</p>		Stable under normal use and storage conditions.						
VIII Fire and Explosion Data		IX Physical Data						
<p>Flash Point: >93°C (closed cup)</p> <p>Fire Extinguishing Agents: Dry chemical, carbon dioxide (CO₂), foam, or water spray.</p>		<p>pH..... 10 - 11</p> <p>Specific gravity.....~1.0</p> <p>Solubility in waterSoluble</p> <p>Viscosity ~30 cP</p>						

MATERIAL SAFETY DATA SHEET

PortionPac Chemical Corp

100 N Ashland Ave Chicago, IL 60622

TELEPHONE 312/226-0400 FAX 312/226-5100

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

SECTION 01 IDENTIFICATION

MSDS NO. SFS 15

DATE July, 1993

TRADE NAME **SFS PAC 15 HEAVY DUTY POT & PAN**

SECTION 02 PHYSICAL & HEALTH HAZARDOUS INGREDIENTS

Hazardous Material as defined by 29 CFR 1910.1200-Reportable under CERCLA or SARA TITLE III sec 304 Regulations

Common Name: Isopropanol (IPA - 2-Propanol)
CAS Registry No. 67-63-0
Chemical Name: Isopropyl alcohol
Hazard % in formula: 6.7% in concentrate In solution: 0.01%
Hazard Reference: TLV-TWA 400ppm (980 mg/m³) NIOSH 400ppm 10h TWA IDLH 20,000ppm

Common Name: butyl cellosolve, Poly Solv EB
CAS Registry No. 111-76-2
Chemical Name: 2-butoxyethanol
Hazard % in formula: 1.1% in concentrate In solution: 0.001%
Hazard Reference: 50 ppm OSHA PEL 25 ppm ACGIH TLV IDLH 700 ppm

SECTION 02A OTHER INGREDIENTS NOT CONSIDERED HAZARDOUS IN FORMULATION

water	
sodium lauryl sulfate	CAS 151-21-3
lauryl isopropanolamide	CAS 142-54-1
tetrasodium salt ethylenediamine tetraacetate	CAS 61-02-3
potassium dipolyphosphate	CAS 13845-36-9
citric acid	CAS 77-92-9
dye	

SECTION 03 PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: 170-182 deg F (initial)
Vapor pressure: 28mm Hg
Vapor density (Air=1): not determined
Water solubility: complete
Melting/Freezing point: ≤ 0 Deg F
Appearance: Violet viscous liquid
Specific Grav. (water=1): 1.0523
Percentage volatiles in concentrate: Approx. 65.4% due to water and solvents
Evaporation rate: much slower than 1:1 (n-butyl acetate = 1)
pH of concentrate: 10.2 - 11 pH solution: 7.6 - 7.2
Odor: slight alcoholic odor in concentrate

SECTION 04 PHYSICAL HAZARD DATA

Flash point: 167 deg F Closed cup
Flammable limits: Not determined
Fire fighting media: Water spray, CO₂, dry chemical - Treat primary cause of fire
Special fire fighting procedures: NONE
Fire/Explosion Hazards: No unusual hazards known

SECTION 05 REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will not occur
Conditions to Avoid: None known
Incompatible Materials: Strong oxidizing or reducing agents
Hazardous Decomposition products: CO and CO₂ on thermal decomposition

SECTION 06 HEALTH HAZARD DATA

Oral Toxicity: Not determined
Carcinogenicity: None of the individual materials in this formulation are listed as carcinogens in NTP, IARC Monographs or are OSHA Regulated carcinogens

SECTION 07 SYMPTOMS OF OVEREXPOSURE

Symptoms of Ingestion: May cause diarrhea.
 Symptoms of Inhalation: If misted in concentrated form, which is improper use, can cause irritation of mucous membrane, nose, eye and throat.
 Symptoms of Skin Contact: May cause dermatitis or irritation in some individuals upon prolonged contact. Localized skin defatting can be expected from concentrated detergent on long contact.
 Symptoms of Eye Contact: Causes painful stinging or burning of eyes and lids, watering of eyes.

SECTION 08 EMERGENCY FIRST AID PROCEDURES

For Ingestion: Suggest inducing vomiting by giving two glasses of water and sticking finger down throat. NEVER give anything to an unconscious person. Call a physician.
 For Skin: As for all foreign materials, wash off concentrate or diluted use solution with water.
 For Eyes: PROMPTLY flush with large amounts of water occasionally lifting the lower and upper lids. Call a physician if irritation persists.
 Medical Conditions Aggravated By Exposure: No data found.

SECTION 09 OCCUPATIONAL CONTROL PROCEDURES

Ventilation: None normally required.
 Respiratory Protection: Not required under normal working/use conditions.
 Eye Protection: Not normally required. Use if in specific applications splashes or mists will get into eyes.
 Skin Protection: Not normally required.
 Personal Hygiene: As in handling any detergent, wash thoroughly after using.

SECTION 10 PRECAUTIONS FOR SAFE HANDLING STORAGE AND USE

Precautionary Measures: Avoid contact with eyes and prolonged contact of concentrate with skin. Avoid breathing misted vapors.
 Spills Clean-up Procedures: Concentrated materials are packed in 4 ounce bags limiting any spills to very small quantities. Paper toweling or mopping is usually sufficient.
 Disposal Method: Bags may be disposed of in normal waste.
 Storage: Concentrate will solidify below 60 Deg. F, but is unaffected by freezing. Thaw and use.

GENERAL NOTE ABOUT SFS PAC PRODUCTS

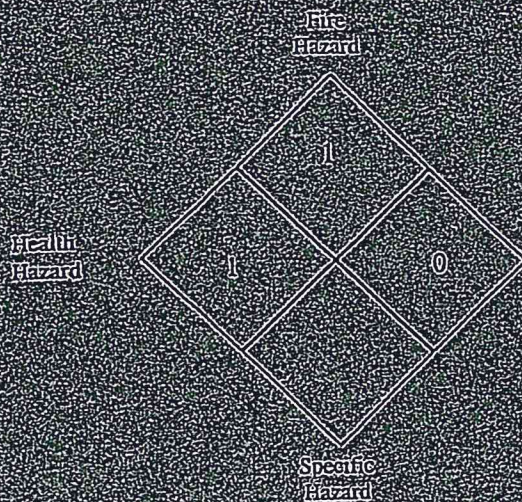
SFS Pac Pot & Pan Detergent formulation is not substantially different from any other commercially available high foaming pot and pan detergent. The unique packaging of SFS Pac materials in small unit dosed bags of 4 ounce size limits the amount of exposure of the concentrate to very small amounts. Spills can be cleaned up with paper toweling or plain mopping. We know of no hazards associated with the proper use and handling of this product. SFS Pac Pot & Pan is diluted in normal use 1:800 (i.e. 4 ounces with 25 gals) with water.

PortionPac Chemical Corporation makes no warranty, expressed or implied, as to the accuracy, completeness or reliability of this information, except that such information is, to the best of PortionPac Chemical Corporation's knowledge and belief, accurate as of the date indicated.

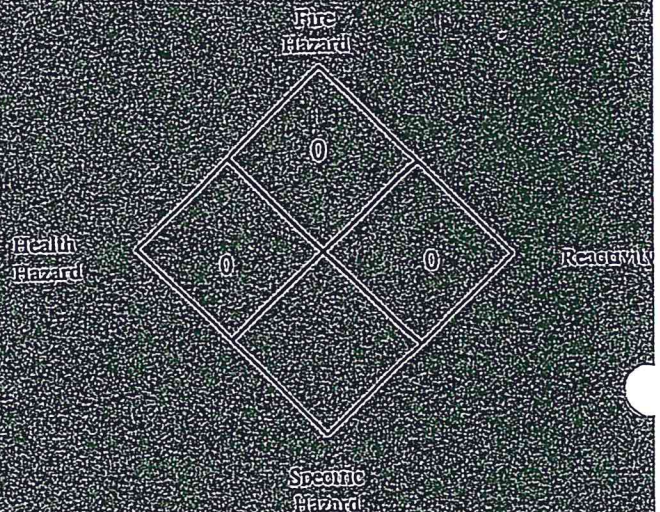
24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

SFS 15 - REVISED: 7/93

In Concentrate:



In Dilution:



MATERIAL SAFETY DATA SHEET

PortionPac Chemical Corp

400 N Ashland Ave Chicago, IL 60622

TELEPHONE 312/226-0400 FAX 312/226-5400

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

SECTION 01 IDENTIFICATION

MSDS NO. 2102 REV 4 DATE: 06-01-93

DOMESTIC TRADE NAME: **RestorePac No. 2102**

SECTION 02 PHYSICAL & HEALTH HAZARDOUS INGREDIENTS

[Components listed directly below are identified as hazardous under the criteria of OSHA Hazard Communications Standard (29 CFR 1910.1200)]

Common Name: Carbitol cellosolve, carbitol
CAS Registry No. 111-90-0
Chemical name: Diethylene glycol ethyl ether,
Hazard % in formula: 5-10% in concentrate In working/use solution: 2.0-4.0%

SECTION 02A OTHER INGREDIENTS NOT CONSIDERED HAZARDOUS IN FORMULATION

styrene acrylic polymer
emulsified waxes
tri-butoxyethyl phosphate
non-ionic detergent
zinc ammonium carbonate compound
kaython preservative
fluorocarbon wetting agent
silicone defoamer

SECTION 03 PHYSICAL & CHEMICAL CHARACTERISTICS

(The physical data presented are typical values and should not be construed as specifications.)

Boiling Point: 212° F, 100° c.
Vapor pressure: >23.0 mm Hg
Water solubility: complete
Melting/Freezing point: less than 32 deg F
Appearance: milky white liquid
Specific Grav. (water=1): 1.05
Percentage volatiles in concentrate: Max. 62%
Evaporation rate: much slower than 1 (n-butyl acetate = 1)
pH of concentrate: 8.0; pH mopping solution: 8.0
Odor: Slight ammoniacal odor in concentrate.

SECTION 04 PHYSICAL HAZARD DATA

Flash point: >200 F (93c) closed cup
Flammable limits: N/A
Fire fighting media: water spray, CO₂, alcohol foam. Dry chemical: - Treat primary cause of fire.
Special fire fighting procedures: none known
Fire/Explosion hazards: none

SECTION 05 REACTIVITY DATA

Stability: stable
Hazardous Polymerization: will not occur
Incompatible Materials: not applicable
Hazardous Decomposition Products: acrid smoke and fumes emitted when heated to decomposition, CO, CO₂, NO_x.

SECTION 06 HEALTH HAZARD DATA

Oral Toxicity: not determined for formulation.
Skin Toxicity: not known for formulation
Carcinogenicity: none of the individual materials in this formulation are listed as carcinogens in NTP, IARC Monographs, or are OSHA Regulated carcinogens.

SECTION 07 SYMPTOMS OF OVEREXPOSURE

Symptoms of Inhalation: Can cause irritation of mucous membrane, nose, eye and throat, especially if misted.
Symptoms of Skin Contact: May cause dermatitis or irritation in some individuals upon prolonged contact.
Symptoms of Eye Contact: Moderate irritation of eyes.

SECTION 08 EMERGENCY FIRST AID PROCEDURES

For Ingestion of Concentrate: Induce vomiting by giving either syrup of ipecac followed by 2 glasses H₂O or by sticking finger down throat. NEVER give anything to an unconscious person. Call a Physician.
For Ingestion of Use Solution: Give two glasses of water to dilute. Call physician.
For Skin: As for all foreign materials, wash off concentrate or dilute use solution with water. Remove clothing which has been saturated by concentrate.
For Eyes: PROMPTLY flush with large amounts of water occasionally lifting the lower and upper lids. Call a physician if irritation persists.
Medical Conditions aggravated by Exposure: No data found

SECTION 09 OCCUPATIONAL CONTROL PROCEDURES

Ventilation: Use with adequate ventilation. Working solution should not present any specific hazard.
Respiratory Protection: Not required under normal working/use conditions.
Eye Protection: Not normally required. Use if in specific applications splashes or mists will unavoidably get into eyes.
Skin Protection: Not normally required.
Personal Hygiene: As in handling any finish, wash hands after use.

SECTION 10 PRECAUTIONS FOR SAFE HANDLING STORAGE AND USE

Precautionary Measures: Avoid contact with eyes and prolonged contact of concentrate with skin. Avoid breathing misted vapors. Use with adequate ventilation.
Storage: Protect from freezing and do not store at elevated temperatures above 120° F (50° c).
Spills Clean-up Procedures: Concentrated materials only come in small bags limiting the spill to very small quantities. Paper toweling or mopping is usually sufficient.
Disposal Method: Bags may be disposed of in normal waste after draining.

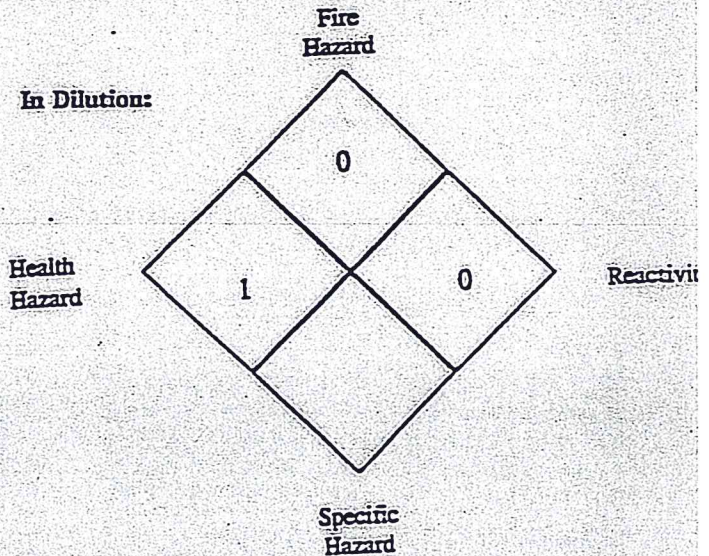
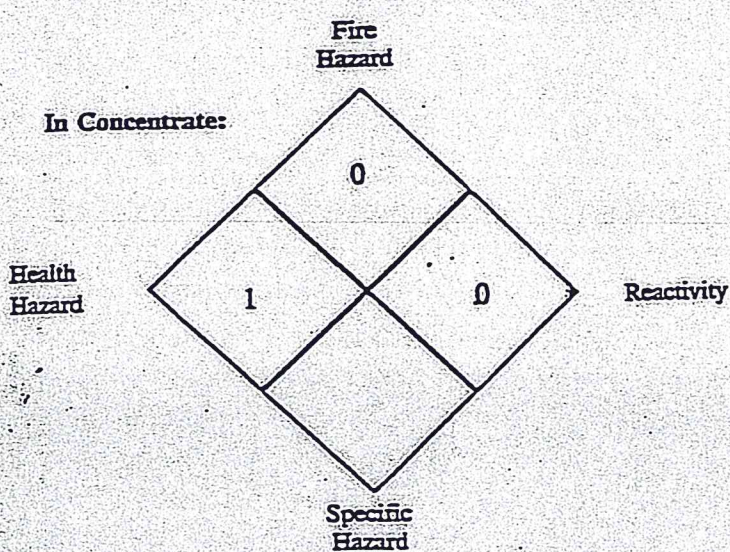
GENERAL NOTE ABOUT PORTION PAC PRODUCTS

PortionPac RestorePac Acrylic Finish Formulation is not substantially different from any other commercially available floor finish formulation. The unique packaging of PortionPac materials in a small unit dosed bag of approx. 48 ounces limits the amounts of exposure of the concentrate to very small amounts. These can be cleaned up with paper toweling or plain mopping. These are in fact products for floors as well as other cleaning chores. We know of no serious hazards associated with the proper use and handling of this product. As with any detergent and finish formulation, good housekeeping procedures and care in following directions will insure proper use. The use dilution of this product is 48 ounces to make 2 gallons use solution with water.

PortionPac Chemical Corporation makes no warranty, expressed or implied, as to the accuracy, completeness or reliability of this information, except that such information is, to the best of PortionPac Chemical Corporation's knowledge and belief, accurate as of the date indicated.

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

REVISED: 06/01/93 RestorePac 2102



MATERIAL SAFETY DATA SHEET

PortionPac Chemical Corp

400 N Ashland Ave Chicago, IL 60622

TELEPHONE 312/226-0400 FAX 312/226-5400

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

SECTION 01 IDENTIFICATION

MSDS NO. SFS 16 DATE: July, 1993

TRADE NAME: **SFS PAC 16 SANITIZER**

SECTION 02 PHYSICAL & HEALTH HAZARDOUS INGREDIENTS

Hazardous Material as defined by 29 CFR 1910.1200 Reportable under CERCLA or SARA TITLE III sec 304 Regulations

Common Name: ethyl alcohol, alcohol
CAS Registry No. 64-17-5
Chemical name: ethanol
Hazard % in formula: 0.75% in concentrate In working use solution: 0.0015% - 0.0097%
Hazard Reference: TLV:TWA 1000ppm PEL : TWA 1000ppm

SECTION 02A OTHER INGREDIENTS NOT CONSIDERED HAZARDOUS IN FORMULATION

NOTE: Contains germicidal active agents. By definition these agents are biologically active so that they can kill bacteria and viruses on contact. Even though they are not listed by OSHA et. al. as hazardous materials. Safe handling procedures and common sense should be used in their use and handling.

water
alkyl dimethyl benzyl ammonium chloride -- CAS 68424-85-1
octyl decyl dimethyl ammonium chloride } CAS 68424-95-3
didecyl dimethyl ammonium chloride
dioctyl dimethyl ammonium chloride

SECTION 03 PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: 214 Deg F
Vapor pressure: 19mm Hg
Vapor density (Air=1): not determined
Water solubility: Complete
Melting/Freezing point: < 0 DEG F
Appearance: Transparent clear liquid, water like consistency.
Specific Grav. (water=1): 0.993
Percentage volatiles in concentrate: Approx. 92% due to water in formulation
Evaporation rate: much slower than 1 (n-butyl acetate = 1)
pH of concentrate: 6.8 ± .2 pH working/use solution: will reflect pH of dilution water
Odor: Fresh, antiseptic odor

SECTION 04 PHYSICAL HAZARD DATA

Flash point: Not applicable
Flammable limits: Not determined
Fire fighting media: Water spray, CO₂, dry chemical;-- Treat primary cause of fire.
Special fire fighting procedures: None known
Fire/Explosion Hazards: None

SECTION 05 REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will not occur
Conditions to Avoid: Very long exposure to materials containing copper, aluminum and strong oxidizing agents.
Incompatible Materials: Strong oxidizing agents
Hazardous Decomposition products: Acid smoke and fumes emitted when heated to decomposition.

SECTION 06 HEALTH HAZARD DATA

Oral Toxicity: Not determined for formulation.
Carcinogenicity: None of the individual materials in this formulation are listed as carcinogens in NTP, IARC Monographs, or are OSHA regulated carcinogens.

SECTION 07 SYMPTOMS OF OVEREXPOSURE

Symptoms of Ingestion: When concentrate is ingested in sufficiently large quantities, immediate burning pain in the mouth, throat, abdomen and possible severe swelling of the larynx. Possible skeletal muscle paralysis affecting the ability to breath with circulatory shock, convulsions. May cause red blood cell hemolysis and possible liver and kidney injury. May be fatal. Circulatory shock possible if large quantities are ingested. Small unit dosed bag size would require the ingestion of multiple bags to reach the dangerous level.

Symptoms of Inhalation: If misted in concentrated form, can cause irritation of mucous membrane, nose, eye and throat.

Symptoms of Skin Contact: In the concentrate may cause dermatitis or irritation in some individuals upon prolonged contact. Localized skin defatting can be expected from concentrated material on long contact.

Symptoms of Eye Contact: Causes painful stinging or burning of eyes and lids, watering of eye, conjunctivitis and in concentrated undiluted form may cause opaqueness of cornea.

SECTION 08 EMERGENCY FIRST AID PROCEDURES

For Ingestion: Do not induce vomiting. Immediately give 3-4 glasses of milk (if none, give water). If vomiting occurs, give fluids again. Never give anything to an unconscious person. Call a physician. Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock as well as oxygen and measures to support breathing manually or mechanically may be needed. If persistent, convulsions may be controlled by the cautious intravenous injection of a short acting barbiturate drug.

For Skin: As for all foreign materials, wash off with water. Remove clothing which has been saturated by concentrate. Decontaminate affected clothing and shoes.

For Eyes: PROMPTLY flush with large amounts of water occasionally lifting the lower and upper lids. Call a physician if irritation persists.

Medical Conditions Aggravated By Exposure: No data found.

SECTION 09 OCCUPATIONAL CONTROL PROCEDURES

Ventilation: Normally not required.

Respiratory Protection: Not required under normal working/use conditions.

Eye Protection: EPA recommends use of goggles or face shield.

Skin Protection: For concentrate use rubber gloves. Some individuals may be uniquely sensitive even to dilute use solution.

Personal Hygiene: As in handling any germicidally active agent, wash thoroughly after using.

Food Contamination: Discard food contaminated with sanitizer.

SECTION 10 PRECAUTIONS FOR SAFE HANDLING STORAGE AND USE

Precautionary Measures: Avoid contact with eyes and prolonged contact of concentrate with skin. Avoid breathing concentrate if misted. Use with adequate ventilation. Do not store at elevated temperatures.

Spills Clean-up Procedures: Concentrated materials are packed in very small bags limiting any spills to very small quantities. Paper toweling or mopping is usually sufficient.

Disposal Method: Bags should be triple rinsed before disposal.

GENERAL NOTE ABOUT SFS PAC PRODUCTS

SFS Pac Sanitizer Detergent formulation is not substantially different from any other commercially available high foaming pot and pan shampoo. The unique packaging of SFS Pac materials in small unit dosed bags of 2.5 ounce size limits the amount of exposure of the concentrate to very small amounts. Spills can be cleaned up with paper toweling or plain mopping. We know of no hazards associated with the proper use and handling of this product. SFS Pac Sanitizer is diluted for normal use 1::512 (i.e. 2.5 ounce with 10 gals) with water.

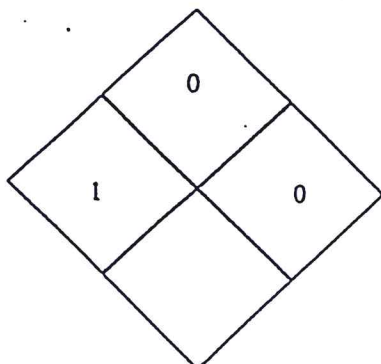
PortionPac Chemical Corporation makes no warranty, expressed or implied, as to the accuracy, completeness or reliability of this information, except that such information is, to the best of PortionPac Chemical Corporations knowledge and belief, accurate as of the date indicated.

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

SFS 16 REVISED: 7/93

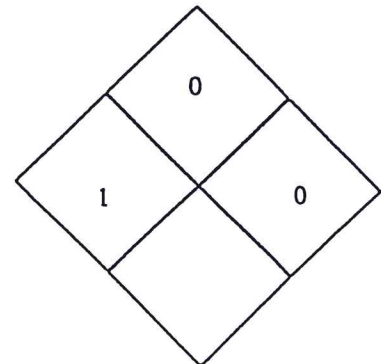
In Concentrate:

Fire Hazard



In Dilution:

Fire Hazard



MATERIAL SAFETY DATA SHEET

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

PortionPac Chemical Corporation

100 N. Ashland Ave., Chicago, IL 60622

TELEPHONE 312/226-0400 FAX 312/226-5400

SECTION 01 IDENTIFICATION

MSDS No. 100 Series DATE: January, 1994

TRADE NAME: **ScrubPac® Heavy Duty All Purpose Detergent No. 102, 104, & 110**

NOTE: CAS Registry numbers are not applicable to formulated products.

SECTION 02 PHYSICAL & HEALTH HAZARDOUS INGREDIENTS

Hazardous Material as defined by 29 CFR 1910.1200 Reportable under CERCLA or SARA TITLE III Sec. 304 Regulations.

Common Name: ethanolamine, MEA, monoethanolamine
CAS Registry No.: 141-43-5
Chemical name: monoethanolamine, 2-aminoethanol
Hazard % in formula: In concentrate: 14.5% In mopping solution: 0.06%
Hazard Reference: 3 ppm ACGIH 85/86 Ref. (1) Sec. IX LD₅₀ rats 10.2g/Kg J.IND.HYG.TOXICOL 23, 259 (1941)

Common Name: DPM
CAS Registry No.: 34590-94-8
Chemical Name: dipropylene glycol monomethyl ether
Hazard % in formula: In concentrate: 16.0% In mopping solution: 0.06%
Hazard reference: 100 ppm OSHA PEL

Common name: ethyl alcohol, alcohol
CAS Registry No.: 64-17-5
Chemical Name: ethanol
Hazard % in formula: typical: 1.9% In mopping solution: 0.007%
Hazard reference: TLV:TWA 1000ppm, PEL:TWA 1000ppm

SECTION 02A OTHER INGREDIENTS NOT CONSIDERED HAZARDOUS IN FORMULATION

water
ammonium salt of sulfated nonylphenoxy poly(ethyleneoxy)ethanol CAS 9051-57-4
vegetable oil alkanolamide CAS 68603-42-9
triethanolamine CAS 102-71-6
propylene glycol monomethyl ether CAS 107-98-2
EDTA CAS 64-02-8

SECTION 03 PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: 201 deg.F
Vapor pressure: 29mm Hg
Vapor density (Air=1): Not determined.
Water solubility: Complete.
Melting/Freezing point: < 0 deg.F
Appearance: Light straw colored liquid. Slightly more viscous than water.
Specific Grav. (water=1): 1.025
Percentage volatiles in concentrate: Approx. 30% water; 25% solvent
Evaporation rate: much slower than 1 (n-butyl acetate = 1)
pH: In concentrate: 11.2 ± .3 In mopping/use solution: 9.8 ± .3
Odor: Ammoniacal odor in concentrate; fresh, slightly ammoniacal and vegetable soap odor in dilution.

SECTION 04 PHYSICAL HAZARD DATA

Flash point: 181 deg. F Closed cup.
Flammable limits: not determined.
Fire fighting media: Water spray, CO₂, dry chemical; - Treat primary cause of fire.
Special fire fighting procedures: None.
Fire/Explosion Hazards: No unusual hazards known.

SECTION 05 REACTIVITY DATA

Stability: Stable.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: Long exposure to materials containing copper, aluminum and strong oxidizing agents may cause discoloration.
Incompatible Materials: Strong oxidizing or reducing agents.
Hazardous Decomposition products: If heated to decomposition, CO, CO₂, NO_x and ammonia may be produced.

■ SECTION 06 HEALTH HAZARD DATA

Oral Toxicity: Not determined for formulation.
Skin Toxicity: Not known for formulation; Rabbit Skin LD₅₀ 1.0g/Kg for MEA in formulation.
Carcinogenicity: None of the individual materials in this formulation are listed as carcinogens in NTP, IARC Monographs, or are OSHA Regulated carcinogens.

■ SECTION 07 SYMPTOMS OF OVEREXPOSURE

Symptoms of Ingestion: Ingestion of significant quantity of concentrate may cause nausea, vomiting, and abdominal pain, incoordination, diarrhea and general weakness. May cause red blood cell hemolysis and possible liver and kidney injury.
Symptoms of Inhalation: If misted in concentrated form can cause irritation of mucous membrane, nose, eye and throat.
Symptoms of Skin Contact: May cause dermatitis or irritation in some individuals upon prolonged contact. Localized skin defatting can be expected from any detergent on long contact.
Symptoms of Eye Contact: Causes painful stinging or burning of eyes and lids, watering of eye, conjunctivitis, and in concentrated undiluted form may cause opaqueness of cornea, possibly leading to loss of sight.

■ SECTION 08 EMERGENCY FIRST AID PROCEDURES

For Ingestion: Suggest inducing vomiting immediately by giving two glasses of water and sticking finger down throat. NEVER give anything to an unconscious person. Call a physician. Treatment should be directed at the control of symptoms and the clinical condition of the patient. There is no specific antidote.
For Skin: As for all foreign materials, wash off concentrate or diluted use solution with water. Remove clothing which has been saturated by concentrate. Do not allow prolonged contact with the concentrated undiluted material as toxic amounts can be absorbed over an extended time.
For Eyes: PROMPTLY flush with large amounts of water occasionally lifting the lower and upper lids. Call a physician if irritation persists.
Medical conditions aggravated by exposure: No data found.

■ SECTION 09 OCCUPATIONAL CONTROL PROCEDURES

Ventilation: Use with adequate ventilation. Working solution should not present any hazard. If misted or an aerosol is generated, local or mechanical exhaust recommended to maintain vapor concentration below TLV. This level, however, should not be reached under normal working conditions.
Respiratory Protection: Not required under normal working/use conditions.
Eye Protection: Not normally required. Use if in specific applications working solution will get into eyes.
Skin Protection: Use gloves if hands will be continuously in solution, not normally necessary in general use.
Personal Hygiene: As in handling any detergent, wash thoroughly after using.

■ SECTION 10 PRECAUTIONS FOR SAFE HANDLING STORAGE AND USE

Precautionary Measures: Avoid contact with eyes and prolonged contact of concentrate with skin. Avoid breathing misted vapors. Use with adequate ventilation. Do not store at elevated temperatures greater than 150°.
Spills Clean-up Procedures: Concentrated materials are packed in unit dosed bags limiting any spills to very small quantities. Paper toweling or mopping is usually sufficient.
Disposal Method: Bags can be disposed of in normal waste.

■ GENERAL NOTE ABOUT PORTION PAC PRODUCTS

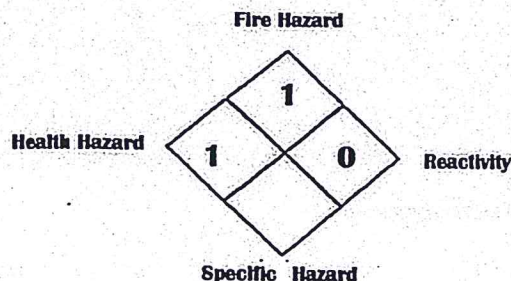
PortionPac ScrubPac detergent formulation is not substantially different from any other commercially available hard surface cleaner or for that matter any household spray cleaner available in most grocery stores. The unique packaging of these materials in small unit dosed bags limits the amount of exposure of the concentrate to very small amounts. Spills can be cleaned up with paper toweling or plain mopping, as these are in fact products for mopping as well as other maintenance chores. We know of no serious hazards associated with the proper use and handling of this product.

PortionPac Chemical Corporation makes no warranty, expressed or implied, as to the accuracy, completeness or reliability of this information, except that such information is, to the best of our knowledge and belief, accurate as of the date indicated.

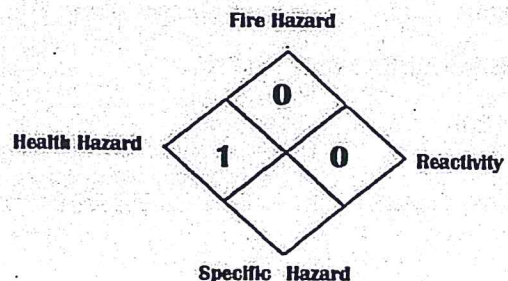
24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

MSDS 102/104/110 REVISED: 1/94

In Concentrate:



In Dilution:



MATERIAL SAFETY DATA SHEET

PortionPac Chemical Corp

400 N Ashland Ave Chicago, IL 60622

TELEPHONE 312/226-0400 FAX 312/226-5400

24 HOUR EMERGENCY PHONE: 1-800-535-5053

SECTION 01 IDENTIFICATION

MSDS NO. 1200 REV 4 DATE: March, 1993

Trade Name: **SteamPac Carpet Extraction Detergent No. 1203, No. 1207, No. 1210**

Note: CAS Registry numbers are not applicable to formulated products

SECTION 02 PHYSICAL & HEALTH HAZARDOUS INGREDIENTS

Hazardous material as defined by 29 CFR 1910.1200
Reportable under CERCLA or SARA TITLE III sec. 304 Regulations

Common Name: butyl cellosolve, Poly Solv EB
CAS Registry No. 111-76-2
Chemical name: 2-butoxyethanol
Hazard % in formula: 12.3% in concentrate In working/use solution: 0.047%
Hazard Reference: 50 ppm OSHA PEL 25 ppm ACGIH TLV IDLE 700 ppm

Common Name: DPM
CAS Registry No.: 34590-94-8
Chemical Name: Dipropylene glycol monomethyl ether
Hazard % in Formula: 8.2% in concentrate In working/use solution: 0.032%
Hazard Reference: 100 ppm OSHA PEL

SECTION 02A OTHER INGREDIENTS NOT CONSIDERED HAZARDOUS IN FORMULATION

water
propylene glycol monomethyl ether CAS 107-98-2
coconut oil alkanolamide CAS 68603-42-9
sodium hexametaphosphate CAS 68915-31-1
tetrapotassium pyrophosphate CAS 7320-34-5
fragrance
dye

SECTION 03 PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: 139 deg F upper phase only
Vapor pressure: 9mm Hg upper phase only
Vapor density (Air=1): Not determined
Water solubility: Complete
Melting/Freezing point: < 0 DEG F
Appearance: Two liquid phase system, clear green top layer, clear colorless lower phase
Specific Grav. (water=1): 0.923 upper layer 1.423 lower layer
Percentage volatiles in concentrate: Not determined
Evaporation rate: Much slower than 1 (n-butyl acetate = 1)
pH of concentrate: 7.4 ± .2 pH working/use solution: 7.6 ± .2
Odor: Slight solvent odor in concentrate, very little odor in use dilution

SECTION 04 PHYSICAL HAZARD DATA

Flash point: 254 deg F closed cup in upper solvent layer, no flash point in lower layer
Flammable limits: Not determined
Fire fighting media: Water spray, CO₂, dry chemical;— Treat primary cause of fire.
Special fire fighting procedures: None
Fire/Explosion Hazards: None known

SECTION 05 REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: Will not occur
Conditions to Avoid: None known
Incompatible Materials: Strong oxidizing
Hazardous Decomposition products: Acrid smoke and fumes emitted when heated to decomposition.

SECTION 06 HEALTH HAZARD DATA

Oral Toxicity: Not determined for formulation.
Skin Toxicity: Not known for formulation.
Carcinogenicity: None of the individual materials in this formulation are listed as carcinogens in NTP, IARC Monographs, or are OSHA Regulated carcinogens.

SECTION 07 SYMPTOMS OF OVEREXPOSURE

Symptoms of Ingestion: May cause nausea, vomiting and abdominal pain, incoordination, diarrhea and general weakness. Ingestion may cause red blood cell hemolysis and possible liver and kidney injury if sufficient quantities are swallowed.
Symptoms of Inhalation: If misted in concentrated form can cause irritation of mucous membrane, nose, eye, and throat.
Symptoms of Skin Contact: May cause dermatitis or irritation in some individuals upon prolonged contact. Localized skin defatting can be expected from concentrated material on long contact.
Symptoms of Eye Contact: Causes painful stinging or burning of eyes and lids, watering of eye, conjunctivitis in concentrate and less severely in use dilution.

SECTION 08 EMERGENCY FIRST AID PROCEDURES

For Ingestion: Of concentrate, suggest inducing vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything to an unconscious person. Get medical advise.
For Skin: As for all foreign materials, wash off concentrate or diluted use solution with water. Remove clothing which has been saturated by concentrate.
For Eyes: PROMPTLY flush with large amounts of water occasionally lifting the lower and upper lids. Call a physician if irritation persists.
Medical conditions aggravated by exposure: No data found.

SECTION 09 OCCUPATIONAL CONTROL PROCEDURES

Ventilation: Use with adequate ventilation. Working solution should not present any general hazard.
Respiratory Protection: Not required under normal working/use conditions.
Eye Protection: Not normally required. Use if in specific applications splashed or mists will get into eyes.
Skin Protection: Use gloves if hands will be continuously in solution, not normally necessary in general use.
Personal Hygiene: As in handling any detergent, wash thoroughly after using.

SECTION 10 PRECAUTIONS FOR SAFE HANDLING STORAGE AND USE

Precautionary Measures: Avoid contact with eyes and prolonged contact of concentrate with skin. Avoid breathing misted vapors. Use with adequate ventilation. Do not store at elevated temperatures.
Spills Clean-up Procedures: Concentrated materials are packed in 2-1/2, 4, and 7-1/2 ounce bags limiting any spills to very small quantities. Paper toweling or mopping is usually sufficient.
Disposal Method: Bags may be disposed of in normal waste when empty in accordance with state and local regulations.

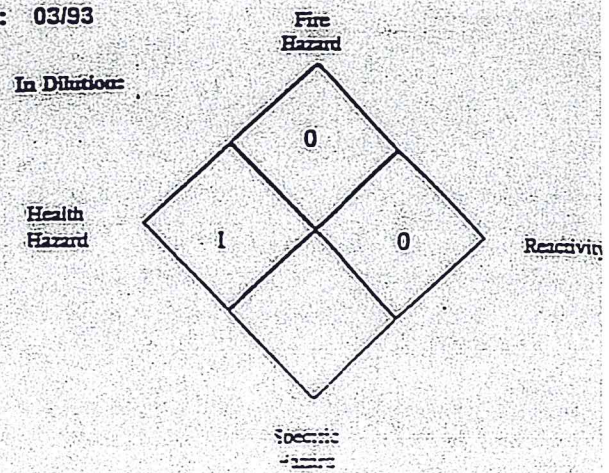
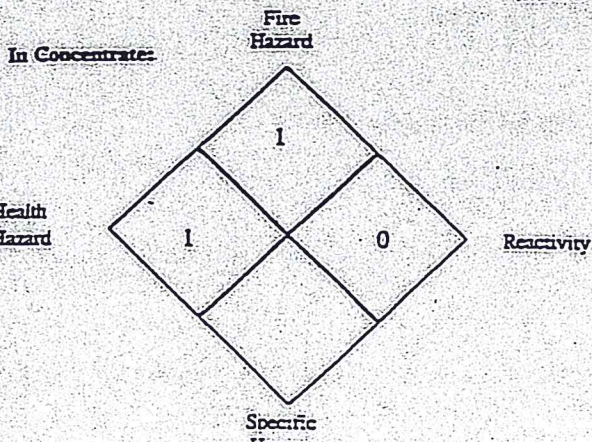
GENERAL NOTE ABOUT PORTION PAC PRODUCTS

PortionPac SteamPac Detergent Formulation is not substantially different from other commercially available steam extraction cleaners. The unique packaging of PortionPac materials in small unit dosed bags of 2-1/2, 4, and 7-1/2 ounce sizes limits the amount of exposure of the concentrate to very small amounts. These can be cleaned up with paper toweling or plain mopping. These are in fact products for cleaning as well as other maintenance chores. We know of no serious hazards associated with the proper use and handling of this product. SteamPac is diluted in normal use 1:54 (i.e. 2.5 ounces with 3 gals) with water.

PortionPac Chemical Corporation makes no warranty, expressed or implied, as to the accuracy, completeness or reliability of this information, except that such information is, to the best of our knowledge and belief, accurate as of the date indicated.

24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

MSDS 1203/07/10 REVISED: 03/93



WaveUrinalDeodorizer Material Safety Data Sheet

Section 1 Chemical Product & Company Information

Emergency Contact: (Spill/Release) (800) 424-9300
Information Number: (419) 531-9741
Manufactured By:
Fresh Products
4010 South Avenue
Toledo, OH 43615
Product Name: The Wave Urinal Deodorizer
Product Numbers: WDS10AC, WDS10E, WDS10HM, WDS10M

Section 2 Composition/Information on Ingredients

Fragrance CAS# N/A

Section 3 Hazards Identifications

HMIS Codes:
Health: 1 Flammability: 1 Reactivity: 0
Flash Point: >200F
Flammability Limits: Not Established
LEL: Not Established UEL: Not Established

Section 4 First Aid Measures

Emergency and First Aid Procedures:
Eyes: Flush eyes with water.
Skin: Wash affected area with soap and water

Section 5 Fire Fighting Measures

Extinguishing Media: Water spray, carbon dioxide, dry chemical
Special Fire Fighting Procedures: Full protective equipment, including pressure demand self-contained breathing apparatus and turnout equipment should be worn by fire fighters and others exposed to combustion by products.
Unusual Fire & Explosion Hazards: None known

Section 6 Accidental Release Measures

Steps to be taken in case of material release or spill: Remove sources of ignition and provide ventilation. Pick up screens and return to storage.

Section 7 Handling and Storage

Precautions to be taken in handling and storing: Store away from sources of ignition and provide ventilation.
Other Precautions: Always practice good housekeeping and hygienic measures.

Section 8 Exposure Controls/Personal Protection

Ventilation: Local Exhaust: Use in well ventilated area.
Special: Not Applicable
Mechanical: Not Applicable
Other: Not Applicable
Protective Gloves: None when used as directed
Eye Protection: None
Other Protective Clothing or Equipment: None
Work/Hygienic Practices: Always practice good housekeeping.

Section 9 Physical and Chemical Properties

Boiling Point: Not Determined
Vapor Pressure: Not Determined
Vapor Density (Air=1): >1
Specific Gravity (Water=1): ~0.995
Melting Point: Not Determined
Evaporations Rate: (Butyl Acetate = 1) <1
Solubility in water: Insoluble
Appearance: Colored translucent polymer screen with various fragrances.

Section 10 Stability and Reactivity

Stability: Stable
Conditions to Avoid: None
Incompatible Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Oxides of carbon when burned.
Hazardous Polymerization: Will not occur

Section 11 Toxicological Information

Routes of Entry: Based on fragrance
Inhalation: Yes Skin: Yes Eyes: No Ingestion: Unlikely
Health hazards (acute & chronic): Toxicity is expected to be low.
Eyes: May cause irritation
Skin: May cause irritation
Signs & Symptoms of Exposure:
Eyes and Skin: Irritation, redness
Medical conditions generally aggravated by exposure: None known

Section 12 Ecological Information

Not Established

Section 13 Disposal Considerations

Waste Disposal Method: Dispose only in accordance with applicable federal, state and local laws and regulations.

Section 14 Transport Information

DOT Classifications: Non Hazardous

Section 15 Regulatory Information

None Required

Section 16 Other Information

None Required
October 17 2007

MATERIAL SAFETY DATA SHEET

U.S. DEPARTMENT OF LABOR

COMPLIES WITH USDL SAFETY AND HEALTH REGULATIONS, (29 CFR 1910.1200)

SECTION I : MANUFACTURER

PRODUCT IDENTIFICATION

SunStar Super Systems, Inc.
293 32 1/2 Street
Gulfport, MS 39507
EMERGENCIES: (601) 863-0763

SUPER BLUE
BUILT SYNTHETIC CLEANER
NEUTRAL CLEANER

PREPARED BY:

DATE: NEW 5-15-92

SECTION II : HAZARDOUS INGREDIENTS

CAS # ACGIH TLV % (OPTIONAL)

THE EXACT COMPOSITION OF THIS FORMULATION IS CONSIDERED TO BE PROPRIETARY INFORMATION, HOWEVER THIS PRODUCT CONTAINS NO HAZARDOUS COMPONENTS AT A LEVEL OF 1% OR GREATER AND NO KNOWN OR SUSPECTED CARCINOGEN AT A LEVEL OF 0.1% OR GREATER.

SECTION III : PHYSICAL DATA

BOILING POINT: approx. 212 F.
VAPOR PRESSURE(mm Hg.): 28MM
PERCENT VOLATILE: 93 %
SOLUBILITY IN WATER: INFINITE
APPEARANCE AND ODOR: VISCOUS BLUE LIQUID, CITRUS FRAGRANCE

SPECIFIC GRAVITY (water=1): 1.00
VAPOR DENSITY, (air=1): UNKNOWN
EVAPORATION RATE, (water=1): >1
pH : 7.5 - 8.5

SECTION IV : FIRE AND EXPLOSION DATA

FLASH POINT, (METHOD USED): NO FLASH @ BOIL, (C.C.)
FLAMMABLE LIMITS: NOT APPLICABLE
EXTINGUISHING MEDIA: ALL TYPES AS DETERMINED BY PRIMARY CAUSE OF COMBUSTION
SPECIAL FIREFIGHTING PROCEDURES: NONE

SECTION V: HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: HAS NOT BEEN DETERMINED

CARCINOGEN: THIS PRODUCT CONTAINS NO KNOWN CARCINOGEN OR POTENTIAL CARCINOGEN AS DEFINED BY OSHA, THE NTP, OR THE IARC MONOGRAPHS.

EFFECTS OF OVEREXPOSURE: EYE IRRITANT

SKIN: POSSIBLE SKIN IRRITANT TO VERY SENSITIVE SKIN

EMERGENCY FIRST AID PROCEDURES:

SKIN: FLUSH WITH WATER, IF IRRITATION APPARENT, CALL PHYSICIAN

EYES: FLUSH WITH WATER (MIN. 15 MIN.) IF IRRITATION APPARENT, CALL PHYSICIAN

INGESTION: DRINK LARGE VOLUMES OF MILK OR WATER, CALL PHYSICIAN

SECTION VI : REACTIVITY DATA

STABILITY DATA: PRODUCT IS STABLE

INCOMPATIBILITY: NONE

HAZARDS DECOMPOSITION PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VII : SPILL OR LEAK PROCEDURES

SMALL SPILLS: WIPE UP PRODUCT, RINSE SOILED AREA WITH WATER DOWN DRAIN.

LARGE SPILLS: STOP LEAK AT THE SOURCE AND COLLECT INTO A SUITABLE CONTAINER, THEN TREAT AS A SMALL SPILL.

FOLLOW STATE AND LOCAL REGULATIONS FOR DISPOSAL OF LARGE NON-RECLAIMABLE SPILLS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: ALWAYS STORE UNUSED PORTION IN ORIGINAL CONTAINER WITH CAP SECURE. AVOID TEMPERATURE EXTREMES.

OTHER PRECAUTIONS: AS WITH ALL CHEMICALS USE DUE CARE ACCORDING TO LABEL INSTRUCTIONS AND PRECAUTIONS.

SECTION VIII : SPECIAL PROTECTION INFORMATION

RESPIRATOR PROTECTION: NONE REQUIRED

VENTILATION: LOCAL OR MECHANICAL TO PROVIDE CLEAN WORK ROOM AIR.

PROTECTIVE GLOVES: FOR PROLONGED USE OR DIRECT CONTACT

EYE PROTECTION: SAFETY GLASSES

OTHER PROTECTIVE EQUIPMENT: NONE REQUIRED



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 074-002
Product name Whiteboard Cleaner
Effective date 16-Mar-2012
Company information Claire Mfg.
1005 Westgate
Addison, IL 60101 United States
Company phone 1-630-543-7600
Emergency telephone US 1-866-836-8855
Emergency telephone outside US 1-952-852-4646
Version # 01
Product use Cleaner

2. Hazards Identification

Emergency overview Aerosol. CONTENTS UNDER PRESSURE.
May be ignited by heat, sparks or flames.

Potential health effects

Routes of exposure Skin contact. Ingestion.

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

Skin May be harmful if absorbed through skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

Ingestion Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into the body by ingestion.

Target organs 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged and may cause blood damage. These effects have not been observed in humans.

Chronic effects Unconsciousness. Cyanosis (blue tissue condition, nails, lips, and/or skin). May be harmful if absorbed through skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Signs and symptoms Cyanosis (blue tissue condition, nails, lips, and/or skin). Defatting of the skin. Skin irritation.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Ethyl Alcohol	64-17-5	1 - 3
2-Butoxyethanol	111-76-2	1 - 3
Propane	74-98-6	1 - 3
n-Butane	106-97-8	1 - 3
Non-hazardous and other components below reportable levels		> 90

4. First Aid Measures

First aid procedures

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

Skin contact Immediately take off all contaminated clothing. Wash off with warm water and soap. Get medical attention if irritation develops and persists.

Inhalation If symptoms develop move victim to fresh air. Get medical attention if symptoms occur.

Ingestion If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. If ingestion of a large amount does occur, call a poison control center immediately.

Notes to physician In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

5. Fire Fighting Measures

Flammable properties Heat may cause the containers to explode. Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

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

Protection of firefighters

Protective equipment and precautions for firefighters In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up. Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

6. Accidental Release Measures

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

Methods for cleaning up Should not be released into the environment.

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

7. Handling and Storage

Handling Pressurized container. Do not pierce or burn, even after use. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke while using or until sprayed surface is thoroughly dry. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not re-use empty containers. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Wear personal protective equipment. Avoid prolonged exposure.

Storage Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat and flame. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Avoid exposure to long periods of sunlight. Store in a well-ventilated place. Keep away from food, drink and animal feedingstuffs. Level 1 Aerosol (NFPA 30B)

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	Not established
2-Butoxyethanol	111-76-2	20 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established

OSHA

Components	CAS #	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000 ppm	Not established	Not established
2-Butoxyethanol	111-76-2	50 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established

Personal protective equipment

Eye / face protection Not normally needed.

Skin protection Chemical resistant gloves. Wear appropriate chemical resistant clothing.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

9. Physical & Chemical Properties

Appearance	Compressed liquefied gas.
Boiling point	206.6 °F (97.2 °C) estimated
Color	Colorless.
Density	0.9604 g/cm ³ estimated
Flammability (HOC)	3.2733 kJ/g estimated
Flash back	No
Flash point	-156 °F (-104.4 °C) Propellant
Form	Aerosol.
Freezing point	Not available
Odor	Butyl
pH	9.5 - 10.5
Physical state	Liquid.
Pressure	70 - 90 psig @ 70F
Solubility	Completely
Specific gravity	0.9605 estimated

10. Chemical Stability & Reactivity Information

Conditions to avoid	Heat, flames and sparks.
Incompatible materials	None known.
Hazardous decomposition products	Irritants.

11. Toxicological Information

Acute effects Acute LD50: 7571 mg/kg estimated, Rat, Dermal

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

2-Butoxyethanol	111-76-2	Inhalation LC50 Rat 2.21 mg/L 4 h; Inhalation LC50 Rat 450 ppm 4 h; Oral LD50 Rat 470 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rabbit 220 mg/kg
Ethyl Alcohol	64-17-5	Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h
n-Butane	106-97-8	Inhalation LC50 Rat 658 mg/L 4 h
Propane	74-98-6	Inhalation LC50 Rat 658 mg/L 4 h

Sensitization Not expected to be hazardous by OSHA criteria.

Carcinogenicity

IARC - Group 1 (Carcinogenic to Humans)

Ethyl Alcohol	64-17-5	Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic beverages)
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Teratogenicity Not expected to be hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

LC50 36327 mg/L, Fish, 96.00 Hours,
 EC50 26428 mg/L, Daphnia, 48.00 Hours,
 IC50 11902 mg/L, Algae, 72.00 Hours,

13. Disposal Considerations

Disposal instructions Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name	Aerosols
Hazard class	2.1
UN number	UN1950
Additional information:	
Special provisions	153, N82
Packaging exceptions	LTD QTY
Packaging non bulk	None
Packaging bulk	None



Further information

Until 12/31/2013, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/13 and may be used now in place of the "Consumer Commodity ORM-D" marking but not concurrently.

IMDG

Basic shipping requirements:

Proper shipping name	AEROSOLS
Hazard class	2.1
UN number	1950
Additional information:	
Packaging exceptions	LTD QTY
Item	5F
Labels required	None
Transport Category	2



IATA

Basic shipping requirements:

Proper shipping name	Aerosols, flammable
Hazard class	2.1
UN number	1950
Additional information:	
Packaging exceptions	LTD QTY
Labels required	2.1



15. Regulatory Information

US federal regulations

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

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

2-Butoxyethanol	111-76-2	1.0 % de minimis concentration (applies to R-(OCH ₂ CH ₂) _n -OR', where n = 1,2, or 3, R=alkyl C7 or less, or R = phenyl or alkyl substituted phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230)
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Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical **Yes**

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely hazardous substance **No**
 Section 311 hazardous chemical **Yes**

Hazard categories (311/312)
 Immediate Hazard - Yes
 Delayed Hazard - No
 Fire Hazard - Yes
 Pressure Hazard - Yes
 Reactivity Hazard - No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

2-Butoxyethanol	111-76-2	Present
Ethyl Alcohol	64-17-5	Present
n-Butane	106-97-8	Present
Propane	74-98-6	Present

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 1
 Flammability: 2
 Physical hazard: 0

Disclaimer

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

Prepared by

Regulatory Compliance