

<b>NFPA Rating Health 1 Flammability 0 Reactivity 0</b>	<b>HMIS Rating Health 1 Flammability 0 Reactivity 0</b>
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**SECTION I**

<b>Material Safety Data Sheet</b> This MSDS complies with OSHA's Hazard Comm. Standard 29 CFR 1910.1200 and OSHA Form 174		DOT Hazard Classification * Consumer commodity, ORM-D	
Distributed By:	Hillyard Industries, Inc.	Identity (Trade Name) #1039 Germicidal Foaming Cleaner	
Address:	P.O. Box 909	MSDS Number *	1039-99-1
	St. Joseph, MO 64502	Date Prepared:	February 25, 1999
Telephone (Information)	(816) 233-1321 (Ext.2303) <a href="http://www.hillyard.com">http://www.hillyard.com</a>	Prepared By:	Regulatory Dept.
Telephone (Emergency)	CHEMTREC (1-800-424-9300)	NOTE: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.	

**SECTION II - Ingredients/Identity Information**

Components (Specific Chemical Identity, Common Name(s))	CAS No.	OSHA PEL	ACGIH-TLV	Other Limits Recommended	%(Opt.)
Propane	74-98-6	800 ppm	800 ppm		
Isobutane	75-28-5	1000 ppm	Asphyxiant		
*2-Butoxyethanol	111-76-2	50 ppm (skin)	25 ppm (skin)		1 - 2.5
*2-(2-Ethoxyethoxy) ethanol	111-90-0	Not established	Not established		1 - 2.5
n-Alkyl dimethyl benzyl ammonium chlorides	8391-01-5	None	None		
n-Alkyl dimethyl ethylbenzyl ammonium chlorides	68956-79-6	None	None		
Water	7732-18-5	None	None		

\* This product contains 2-Butoxyethanol and 2-(2-Ethoxyethoxy)-ethanol (glycol ether compounds ) which are listed and may require reporting under SARA Title III Sec 313 if used over the threshold reporting quantity. This information must be included in all MSDSs that are copied and distributed for this material.

Any substance listed as hazardous by the States of California, Florida, Illinois, Michigan, New Jersey, Ohio, Pennsylvania or Texas is described above if known present in regulated concentrations.

**SECTION III Physical/Chemical Characteristics**

<b>Boiling Point</b> Concentrate	212° F	<b>Specific Gravity (H<sub>2</sub>O = 1)</b> Concentrate	1.01
<b>Pressure (psig. @ 70° F)</b>	60 ± 5	<b>Melting Point</b>	No Data
<b>Vapor Density (AIR = 1)</b>	Greater than one (1)	<b>Evaporation Rate (Butyl Acetate = 1)</b>	No Data
<b>Solubility in Water</b> Complete		<b>pH</b>	11 ± 0.5

**Appearance and Odor -**

Clear liquid with a lemon scent. Dispensed as a wet foam from an aerosol can.

**SECTION IV - Fire and Explosion Hazard Data**

<b>USA Flame Projection Test</b> 0" Extinguished flame, Nonflammable	<b>Flammable Limits</b> No Data	<b>LEL</b> No Data	<b>UEL</b> No Data
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**Extinguishing Media** - Not usually necessary as this product does not readily support combustion. Use an extinguishing agent applicable to the fire's fuel source (i.e. - carbon dioxide, dry chemical, foam, fog, and water spray).

**Special Fire Fighting Procedures** - Use water spray to keep containers cool and vapors down. Do not allow runoff to enter sewers or public watercourses. Wear self-contained breathing apparatus in chemical fires.

**Unusual Fire and Explosion Hazards** - Aerosol container (pressurized) may burst if heated over 120° F.

**SECTION V - Reactivity Data**

Stability	Unstable		Conditions to Avoid - Extreme heat, direct sunlight
	Stable	X	

**Incompatibility (Materials to Avoid)** - Strong acids and oxidizers.

**Hazardous Decomposition or Byproducts** - Carbon monoxide, carbon dioxide, nitric acid, hydrochloric acid, and nitrous oxide.

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

**SECTION VI - Health Hazard Data**

Route(s) of Entry	Eyes? Yes	Inhalation? Yes	Skin? Yes	Ingestion? Yes
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**Health Hazards (Acute and Chronic) -**

Warning: Causes eye irritation. May cause skin irritation. Product may be absorbed through intact skin. May be harmful if inhaled. Contents under pressure. Use good chemical hygiene practices to avoid these hazards.

Carcinogenicity: None known.	NTP? No	IARC Monographs? No	OSHA Regulated? No
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**Signs and Symptoms of Exposure** - Redness, tearing, burning in eyes. Redness, drying, cracking of skin. Dizziness, nausea, and loss of coordination possible if inadequate ventilation.

**Medical Conditions Generally Aggravated by Exposure** - Pre-existing skin and lung disorders may be aggravated by prolonged or repeated occupational overexposure.

**Emergency and First Aid Procedures:** **Eyes** - Flush with plenty of water (for at least 15 minutes lifting eyelids to insure complete removal). Get immediate medical attention. **Ingestion** - If conscious, drink plenty of water. Call a physician or poison control center immediately. Do not induce vomiting unless directed by a physician. **Inhalation** - Get to fresh air. If breathing has stopped, qualified personnel should administer artificial respiration. **Skin** - Flush with water. If irritation persists, get medical attention.

**SECTION VII - Precautions for Safe Handling and Use**

**Steps to be Taken in Case Material is Released or Spilled** - Caution, slip hazard. Pick up small spills with rag or towel. For large spills, isolate traffic and ventilate area. Eliminate all ignition sources. Wear protective gear as necessary. Dike to prevent spread. Vacuum or pick up on absorbent. Put in suitable container for proper disposal.

**Waste Disposal Method** - Pesticide wastes - Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Follow special instructions for HIV-1 disinfection procedures. Empty container - Replace cap and discard in trash. Do not puncture or incinerate. Consult federal, state or local disposal authorities for approved alternative procedures.

**Precautions to be Taken in Handling and Storing** - Avoid getting product in eyes. Avoid contact with skin and clothing. Direct spray away from face. Replace cap when not in use. Wash thoroughly after handling. Contents under pressure. Do not store near heat, sparks or flame or in direct sunlight. Exposure to temperatures above 120° F may cause bursting. Do not puncture or incinerate container.

**Other Precautions** - Follow label directions carefully. Keep out of reach of children. Do not deliberately concentrate and inhale vapors.

**SECTION VIII - Control Measures**

**Respiratory Protection (Specify Type)** - Not usually necessary. Use with adequate ventilation. If PELs or TLVs are exceeded (see Section II), use an approved NIOSH/MSHA respirator.

Ventilation	Local Exhaust - Not usually necessary	Special - None
	Mechanical (General) - Yes	Other - None

Protective Gloves - To avoid direct contact with product or blood and other body fluids.	Eye Protection - Yes, approved safety glasses or goggles. (ANSI Z87)
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**Other Protective Clothing or Equipment** - Not usually necessary. If direct contact possible, use apron, boots, etc. See special instructions for HIV-1 disinfection.

**Work/Hygienic Practices** - Normal. Wash thoroughly before eating, drinking, smoking, using restrooms, etc.

**DISCLAIMER OF WARRANTIES**

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.

The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.

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