MATERIAL SAFETY DATA SHEET											
<b>NFPA RATING:</b> Health = $2$	Flammability =	0 Reactive	ity = 0								
<b>HMIS RATING:</b> Health = $2$	Flammability =	0 Reactive	ity = 0								
SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION (502N-48E)											
Manufacturer's Name: HILLYARD INDUSTRIES Product Name: SHOWER FOAM											
Address:302 North Fourth StreetDate Prepared: March 5, 2001											
St. Joseph, MO 64501 <b>Prepared by:</b> Regulatory Affairs Department											
Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire,											
exposure or accident involving chemicals.) Other information calls: (816) 233-1321 (Ext. 8285)											
http://www.hillyard.com											
SECTION II – INGREDIENTS/IDENTITY INFORMATION											
Components											
(Specific Chemical Identity:				OTHER LIMITS							
Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	RECOMMENDED	%						
Phosphoric acid $*(1)$	7664-38-2	$1 \text{ mg/M}^3$	$1 \text{ mg/M}^3$	N/A	13-17						
Water	7732-18-5	none	none	N/A							
Lauryl dimethyl amine oxide	1643-20-5	not est.									
	10+3-20-3	not est.	not est.	N/A							

\*This product contains the following chemicals subject to the reporting requirements of SARA Title III, Sec. 313, and 40 CFR Part 372: Phosphoric acid.

(1) Regulated by OSHA and the following states: FL, IL, LA, MA, NJ, NY, PA, RI

#### SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: corr.	208°F	Specific Gravity ( $H_2O = 1$	<b>1</b> ): 25°C =	1.08	& 39°C =	1.07
Vapor Pressure (mm Hg.):	17.5	Percent Volatile by Volu	me (%):	73		
Vapor Density (AIR = 1):	0.6	Evaporation Rate (ethyl	ether = 1):	slowe	r than 1	
Solubility in Water: app	reciable	<b>Appearance and Odor:</b>	blue-green	liquid;	wintergreen	odor
<b>pH (conc.)</b> 1.52	2					

### SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash point:none (Tag Closed Cup)Flammable Limits:LEL =N/AUEL =N/AExtinguishing Media:Water, foam or dry chemical; carbon dioxideSpecial Fire Fighting Procedures:Hot phosphoric acid is corrosive.Wear protective clothing to avoid<br/>contact with skin or eyes.Unusual Fire and Explosion Hazards:May generate hydrogen gas in contact with some metals.

#### SECTION V – PHYSICAL HAZARDS

Stability:StableConditions to Avoid:None known to HillyardIncompatibility (Materials to Avoid):Strong oxidizing agents, ammonia or bleaches; strong alkalis and<br/>cyanides, and some metals.

Hazardous Decomposition Products or Byproducts:Hydrogen gas from contact with some metalsHazardous Polymerization:Will not occurConditions to Avoid:N/A

#### SECTION VI – HEALTH HAZARD DATA

**Routes of entry:** Inhalation? Yes Skin? Yes Ingestion? Yes **HEALTH HAZARDS (1. Acute and 2. Chronic)** 

1. Concentrate was not a primary skin irritant when tested per Federal Hazardous Substance Act. Concentrate was a primary eye irritant per the Federal Hazardous Substance Act; all test subjects showed moderate to severe discharge with moistening of the lids and hairs in a considerable area around the eye. At a dose of 5 g./Kg. No deaths were observed. Also was not acutely toxic following a 1-hour exposure at nominal concentration of 55.74 mg./L. (actual concentration of 15.21 mg./L. Spray mist of concentrate may irritate nose and throat. 2. None known to Hillyard.

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### SECTION VI – HEALTH HAZARD DATA continued

## Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%. Signs and Symptoms of Exposure: Concentrate can cause severe eye irritation. Harmful if swallowed. Concentrate

burns mouth and lips after ingestion; sour taste of acid, severe gastrointestinal irritation.

## Medical Conditions Generally Aggravated by Exposure: N/A

**Emergency and First Aid Procedures:** If swallowed, immediately give large amounts of water and call a physician, hospital emergency room or poison control center. If excess inhaled, remove to fresh air. In case of contact, immediately flush eyes or skin with plenty of water for 15 minutes; remove contact lenses and flush eyes again with water. For eyes, CALL A PHYSICIAN. If skin irritation persists, get medical attention. Remove and wash all contaminated clothing before reuse.

## SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps To Be Taken In Case Material Is Released Or Spilled:** Small spills: Pick up with noncombustible absorbent. Large spills: Dike far ahead of liquid spill. Avoid contact with skin and eyes. Rinse affected area thoroughly with water.

**Waste Disposal Method:** Disposal of concentrated product is regulated under RCRA as corrosive waste (pH less than 2). Disposal of regulated quantities should be neutralized at a permitted facility in accordance with federal, state and local regulations. Waste from normal product use may be sewered to a public-owned treatment works in compliance with pretreatment requirements.

**Precautions To Be Taken In Handling And Storing:** Keep container closed when not in sue. Avoid excessive temperature; i.e., welding, flame cutting and brazing.

Other Precautions: Contact lenses should not be worn when working with this material.

# SECTION VIII -- CONTROL MEASURES

**Respiratory Protection (Specify Type):** Self-contained breathing apparatus in areas where high mist vapor concentration cannot be controlled by ventilation.

Ventilation:

Local Exhaust =If required to maintain TLVMechanical (General) =Normal ventilation sufficientSpecial = N/AOther = N/A

Protective Gloves: Acid-resistant rubber

**Other Protective Clothing or Equipment:** Protective clothing or rubber apron where contact with conc. is a concern. **Work / Hygienic Practices:** Corrosive - do not get in eyes, on skin or clothing. Avoid prolonged breathing of vapors.

# SECTION IX - TRANSPORTATION INFORMATION

 Applicable regulations: DOT = No; IMCO = No; IATA = No

 Proper shipping name: Cleaning compound

 UN No.: not applicable
 Limited Qty.: not applicable

 Hazard Class: not applicable

 Labels required: not required

 DOT Exception: not applicable

 EPA Hazardous waste/number code: not listed

 Hazardous waste characteristics:

 Ignitability = not applicable; Corrosivity = yes; Reactivity = not applicable

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