

# Material Safety Data Sheet

NFPA Rating: Health = 2, Flammability = 0, Reactivity = 0  
 HMIS Rating: Health = 2, Flammability = 0, Reactivity = 0

#174

## SECTION I — IDENTITY AND MANUFACTURER'S INFORMATION (0378E)

Manufacturer's Name HILLYARD INDUSTRIES

Product Name SHOWER FOAM

Address 302 North Fourth Street  
St. Joseph, MO 64502

Date Prepared February 3, 1992

Prepared by Regulatory Affairs Department

Emergency Telephone No.: CHEMTREC (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. 303)

## SECTION II — INGREDIENTS/IDENTITY INFORMATION

Components (Specific Chemical Identity; Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)
Phosphoric acid * (1)	7664-38-2	1 mg/M <sup>3</sup>	1 mg/M <sup>3</sup>	N/A	13-17
Water	7732-18-5	none	none	N/A	---
Lauryl dimethyl amine oxide	1643-20-5	not est.	not est.	N/A	---
Coco amino propyl dimethyl betaine	61789-40-0	not est.	not est.	N/A	---

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

(1) Regulated by OSHA, FL, IL, IA, MA, NJ, NY, PA, RI

## SECTION III — PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	corr. 208°F	Specific Gravity (H <sub>2</sub> O = 1)	25°C 1.08 39°C 1.07
Vapor Pressure (mm Hg.)	17.5	Percent Volatile By Volume (%)	73
Vapor Density (Air = 1)	0.6	Evaporation Rate (ethyl ether = 1)	slower than 1
Solubility in Water	appreciable	Appearance and Odor	blue-green liquid; evergreen odor

## SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used) none (T.C.C.)	Flammable Limits	LEL	N/A	UEL	N/A
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Extinguishing Media  
Water, foam or dry chemical; carbon dioxide

Special Fire Fighting Procedures  
Hot phosphoric acid is corrosive. Wear protective clothing to avoid contact with skin or eyes.

Unusual Fire and Explosion Hazards  
May generate hydrogen gas in contact with some metals.

## SECTION V — PHYSICAL HAZARDS

Stability Unstable  Conditions to Avoid none known to Hillyard  
Stable

Incompatibility (Materials to Avoid) Strong oxidizing agents, ammonia or bleaches; strong alkalies and cyanides, and some metals.

Hazardous Decomposition Products Or Byproducts  
Hydrogen gas from contact with some metals

Hazardous Polymerization May Occur  Conditions To Avoid - N/A  
Will Not Occur

30910, 30911

#174, Shower Foam

**SECTION VI — HEALTH HAZARD DATA**

2/3/92

Route(s) of Entry:	Inhalation? yes	Skin? yes	Ingestion? yes
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Health Hazards (1. Acute and 2. Chronic)

1. Concentrate may cause eye and skin burns. Spray mist of concentrate may irritate nose and throat.

2. Chronic exposure may produce severe skin and eye burns.

Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	I.A.R.C. Monographs	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	OSHA	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Signs and Symptoms of Exposure

Can cause severe skin burns and eye irritation. Harmful or fatal 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 sewerred 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 use. 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 TLV	Mechanical (General) normal ventilation sufficient	Special	Other
				N/A	N/A

Protective Gloves

acid-resistant rubber

Eye Protection

chemical safety goggles (conc.)

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.

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