JUL 09,'04 01:26PM HILLYARD

.

P.4/21 **#174**

MATERIAL SAFETY DATA SHEET

NFPA RATING: Healt HMIS RATING: Healt		nmability = nmability =	0 Reactivit 0 Reactivit	-		
SECTION I IDENTITY AND MANUFACTURER'S INFORMATION (502N-48E) Manufacturer's Name: HILLYARD INDUSTRIES Product Name: SHOWER FOAM Address: 302 North Fourth Street Date Prepared: March 5, 2001 St. Joseph, MO 64501 Prepared by: 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)						
SECTION II INGREDIENTS/IDENTITY INFORMATION						
Components (Specific Chemical Ident Common Name(s) Phosphoric acid * (1) Water Lauryl dimethyl amine oxi Coco amino propyl dimeth *This product contains th CFR Part 372: Phosphor (1) Regulated by OSHA	de yl betaine ne following che ic acid.	-		-	OTHER LIMITS RECOMMENDED N/A N/A N/A SARA Title III, Sec. 31	% 13-17 3, and 40
SECTION III PHYSICAL / CHEMICAL CHARACTERISTICSBoiling Foint: corr.208°FSpecific Gravity (H2O = 1); 25°C = 1.08& 39°C = 1.07Vapor Pressure (mm Hg.):17.5Percent Volatile by Volume (%); 73Vapor Density (AIR = 1):0.6Evaporation Rate (ethyl ether = 1):slower than 1Solubility in Water :appreciableAppearance and Odor:blue-green liquid; wintergreen odorpH (conc.)1.52						
 SECTION IV FIRE AND EXPLOSION HAZARD DATA Flash point: none (Tag Closed Cup) Flammable Limits: LEL = N/A UEL = N/A 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: Stable Conditions to Avoid: None known to Hillyard Incompatibility (Materials to Avoid): Strong oxidizing agents, ammonia or bleaches; strong alkalis and cyanides, and some metals. Hazardous Decomposition Products or Byproducts: Hydrogen gas from contact with some metals Hazardous Polymerization: Will not occur						
 SECTION VI HEALTH HAZARD DATA Routes of entry: Inhalation? Yes Skin? Yes Ingestion? Yes HEALTH HAZARDS (1. Acute and 2. Chronic) 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. 						

page 2 of - #174 Shower Foam

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 cyc 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. Rinsc 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.c., 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 ventila- special =
 N/A
 Other =
 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.

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

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.

THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.