

MATERIAL SAFETY DATA SHEET

NEPA RATING: Health = 0 Flammability = 0 Reactivity = 0

HMS RATING: Health = 0 Flammability = 0 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (456N-81B)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: DEFOAMER II

Address: 302 North Fourth Street

Date Prepared: January 19, 1996

St. Joseph, MO 64501

Prepared by: Regulatory Affairs Department

Emergency Telephone No.: (816)233-1321(Ext. 303)

Other information calls: (816)233-1321(Ext. 2303)

SECTION II -- INGREDIENTS/IDENTITY INFORMATION

Components

(Specific Chemical Identity:

Common Name(s)

Water

Anti-foaming agent

CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
7732-18-5	N/A	N/A	N/A	—
unknown to Hillyard	N/A	N/A	N/A	—

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 201.2°F

Specific Gravity (H<sub>2</sub>O = 1): 25°C = 0.99 & 39°C = 0.99

Vapor Pressure (mm Hg.): 17.5

Percent Volatile by Volume (%): 98.4

Vapor Density (AIR = 1): 0.6

Evaporation Rate (ethyl ether = 1): slower than 1

Solubility in Water: complete

Appearance and Odor: whitish emulsion; non-objectionable odor

pH (concentrate) = 5.79

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: none to 200°F

Flammable Limits: LEL = N/A UEL = N/A

Extinguishing Media: Not applicable.

Special Fire Fighting Procedures: Dry chemical, alcohol foam, water fog or carbon dioxide.

Unusual Fire and Explosion Hazards: Self contained breathing apparatus is recommended.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable

Conditions to Avoid: None known to manufacturer

Incompatibility (Materials to Avoid): Strong acids and strong alkalis

Hazardous Decomposition Products or Byproducts: Under combustion conditions will release carbon dioxide and/or carbon monoxide and oxides of silica.

Hazardous Polymerization: Will not occur

Conditions to Avoid: N/A

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? No Ingestion? No

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Contact with concentrate may cause eye irritation; prolonged contact with concentrate may cause skin irritation

2. Prolonged or repeated contact may produce skin dermatitis or irritation.

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%.

**SECTION VI - HEALTH HAZARD DATA cont.**

**Signs and Symptoms of Exposure:** Concentrate irritating to eye tissue if not removed promptly. Frequent or prolonged contact with skin may cause irritation or dermatitis.

**Medical Conditions Generally Aggravated by Exposure:** None known to manufacturer

**Emergency and First Aid Procedures:** In case of contact immediately flush eyes or skin with plenty of water for 15 minutes. For eyes, get medical attention; for skin get medical attention if irritation persists. Remove material from skin and clothing. Wash clothing before reuse.

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

**Steps To Be Taken In Case Material Is Released Or Spilled:** Pick up with mop or wet vac and wash away with water.

**Waste Disposal Method:** Washing down sanitary sewer with large quantity of water may be permissible. Liquid wastes are not permitted in landfills. Consult local, state and federal agencies for proper disposal method in your area. This product is not considered a hazardous waste under RCRA.

**Precautions To Be Taken In Handling And Storing:** Protect from freezing. Product shelf life is best retained by storage at 45-100°F temperature. Spills of concentrate should be picked up with wet vac and rinsed thoroughly.

**Other Precautions:** This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.

**SECTION VIII - CONTROL MEASURES:**

**Respiratory Protection (Specify Type):** Not required with normal methods of use

**Ventilation:**

**Local Exhaust =** Normally adequate    **Mechanical (General) =** Recommended    **Special =** N/A    **Other =** N/A

**Protective Gloves:** Impervious gloves recommended with concentrate    **Eye Protection:** Recommend use of splash goggles where splash of concentrate is a concern.

**Other Protective Clothing or Equipment:** Clothing to cover skin and shoes are recommended.

**Work / Hygienic Practices:** Wash contaminated clothing before reuse

**SECTION IX - TRANSPORTATION INFORMATION:**

**Applicable regulations:** 49 CFR = 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 =** not applicable; **Reactivity =** not applicable

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