

001139 ✓

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 1 Flammability = 0 Reactivity = 0
HMIS RATING: Health = 1 Flammability = 0 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (0681F)

Manufacturer's Name: HILLYARD INDUSTRIES Product Name: HIL-MIST
Address: 302 North Fourth Street Date Prepared: July 14, 1994
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. 2303) http://www.hillyard.com

SECTION II -- INGREDIENTS/IDENTITY INFORMATION

Table with 6 columns: Components, CAS#, OSHA PEL, ACGIH TLV, OTHER LIMITS RECOMMENDED, %. Rows include Petroleum distillate, Water, and Soya coco amino amine quaternized.

\* Not established for this CAS #. boiling range is different from oil mist (use oil mist CAS #8012-95-1 for PEL and TLV).

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 203°F Specific Gravity (H2O = 1): 25°C = 0.98 & 39°C = 0.98
Vapor Pressure (mm Hg.): 0.6 Percent Volatile by Volume (%): 96.8
Vapor Density (AIR = 1): 17.6 Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: moderate Appearance and Odor: colorless, semi-transparent liquid; non-objectionable odor

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: None (Tag Closed Cup) Flammable Limits: LEL = N/A UEL = N/A
Extinguishing Media: Use foam, CO2 or dry chemical fire fighting apparatus.
Special Fire Fighting Procedures: The use of self-contained breathing apparatus is recommended for fire fighters. Water is not suitable for extinguishing media but helpful in keeping containers cool.
Unusual Fire and Explosion Hazards: Incomplete combustion can yield carbon monoxide and various hydrocarbons.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: None known
Incompatibility (Materials to Avoid): This product is not compatible with strong oxidizing agents or strong acids.
Hazardous Decomposition Products or Byproducts: Thermal decomposition in air produces carbon monoxide and carbon dioxide.
Hazardous Polymerization: Will not Occur Conditions to Avoid: None Known

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? yes Skin? yes Ingestion? yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. May cause mild eye, skin and respiratory tract irritation. May cause nervous system depression. Per acute oral toxicity testing on product 0 mortality at 5 gm/Kg; acute inhalation (1 hour) toxicity limit test: 0 mortality at 19.1 mg/l (actual measurement). 2. No know applicable information.
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%.

Handwritten signatures and dates: 04/06/94, 04 06 11 10

## SECTION VI – HEALTH HAZARD DATA cont.

**Signs and Symptoms of Exposure:** Ingestion may irritate stomach and intestines. May be aspirated into lungs if swallowed, resulting in pulmonary edema and chemical pneumonitis.

**Medical Conditions Generally Aggravated by Exposure:** Pre-existing eye, skin and respiratory disorders.

**Emergency and First Aid Procedures:** Inhalation: If affected by inhalation of vapor, remove to fresh air. If discomfort persists get medical attention. Eyes - Flush immediately with large amounts of water for at least 15 minutes. Remove contaminated clothing before reuse. Get medical attention if irritation persists.

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

**Steps To Be Taken In Case Material Is Released Or Spilled:** Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent.

**Waste Disposal Method:** Dispose of in accordance with state or local regulations. Do not dispose of in storm drains or waterways.

**Precautions To Be Taken In Handling And Storing:** Since empty packages retain product residue, follow label warnings even after package is empty. Keep container closed when not in use. Do not store at temperatures above 110°F.

**Other Precautions:** USE WITH ADEQUATE VENTILATION. Avoid breathing vapors or spray mist. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Refer to OSHA Standard 29 CFR 1910.94 for technical guidelines on keeping air contamination below acceptable exposure limits. Avoid prolonged contact with skin. Do not take internally. 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):** Wear appropriate, properly fitted respirator (NIOSH or MSHA approved) unless air monitoring demonstrates vapor or mist levels are below applicable limits.

**Ventilation:** At least 10 air changes per hour recommended

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

**Protective Gloves:** Impervious rubber gloves

**Eye Protection:** Chemical safety goggles

**Other Protective Clothing or Equipment:** Protective clothing such as uniforms, coveralls.

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

## SECTION IX - TRANSPORTATION INFORMATION

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

**Proper shipping name:** Petroleum Oil NOI

**UN NO.:** Not applicable **Limited QTY.:** Not applicable **Hazard class:** Not applicable

**Labels required:** Not required **DOT Exception:** Not applicable

**EPA Hazardous waste characteristics:**

**Ignitability =** Not Applicable; **Corrosivity =** Not applicable; **Reactivity =** Not applicable.

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