

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, 1994St. 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****Components**

(Specific Chemical Identity: Common Name(s))	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Petroleum distillate	64741-86-2	none	none	5 mg/M ³ *	2-6
Water	7732-18-5	none	none	N/A	---
Soya coco amino amine quaternized	68604-75-1	not established	not established	N/A	---

* 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 known 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%.

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.

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.