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# Material Safety Data Sheet

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NFPA Rating: Health = 1, Flammability = 0, Reactivity = 0

HMIS Rating: Health = 1, Flammability = 0, Reactivity = 0

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

Manufacturer's Name HILLYARD INDUSTRIES

Product Name HIL-MIST

Address 302 North Fourth Street  
St. Joseph, MO 64502

Date Prepared November 14, 1991

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)
Petroleum distillate	64741-86-2	none	none	5 mg/M <sup>3</sup> *	2-6
Water	7732-18-5	none	none	N/A	---
Soya coco amino amine quaternized	68604-75-1	not est.	not est.	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	corr. 203°F	Specific Gravity (H <sub>2</sub> O = 1)	25°C 0.988 39°C 0.987
Vapor Pressure (mm Hg)	0.6	Percent Volatile By Volume (%)	avg. 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 (Method Used) none (T.C.C.)	Flammable Limits	LEL N/A	UEL N/A
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Extinguishing Media

Use foam, CO<sub>2</sub> 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 container cool.

Unusual Fire and Explosion Hazards

Incomplete combustion can yield carbon monoxide and various hydrocarbons.

## SECTION V - PHYSICAL HAZARDS

Stability Unstable  Conditions  
Stable  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 May Occur  Conditions

Polymerization Will Not Occur  To Avoid none known to Hillyard

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**SECTION VI - HEALTH HAZARD DATA**

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Route(s) of Entry	Inhalation? yes	Skin? yes	Ingestion? yes
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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 hr.) 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	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  
 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, get medical attention if irritation persists. Skin - Flush skin with plenty of water for 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. 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.

**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	Local Exhaust	Mechanical (General)	Special	Other
at least 10 air chgs/hr. recommended	recommended	recommended	N/A	N/A

Protective Gloves	Eye Protection
impervious rubber gloves	chemical safety goggles

Other Protective Clothing Or Equipment  
 protective clothing such as uniforms, coveralls

Work/Hygienic Practices  
 Wash contaminated clothing before reuse.

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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.

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