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MATERIAL SAFETY DATA SHEET

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

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION

(445N-60A)

Manufacturer's Name: HILLYARD INDUSTRIES
Address: 302 North Fourth Street
St. Joseph, MO 64501

Product Name: SUPER HIL-TONE
Date Prepared: March 18, 1996
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:

Table with 7 columns: Common Name(s), CAS#, OSHA PEL, ACGIH TLV, OTHER LIMITS RECOMMENDED, %, and a final % column. Rows include Petroleum distillate and Aliphatic hydrocarbon petroleum naphtha.

VOC = Less than 7%.

\*Not established for this CAS #, use Stoddard Solvent (CAS #8052-41-3) for PEL & TLV.

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 305°F
Vapor Pressure (mm Hg.): 6.6
Vapor Density (AIR = 1): 4.7
Solubility in Water: negligible
Auto-Ignition: 243°C
Specific Gravity (H2O = 1): 25°C = 0.86 39°C = 0.85
Percent Volatile by Volume (%): 6
Evaporation Rate (ethyl ether = 1): slower than 1
Appearance and Odor: slightly yellow - transparent liquid; pleasant odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash point: 225°F (Pensky-Marten Closed Cup)
Flammable Limits: LEL = not established UEL = not established

Extinguishing Media: Use water spray, regular foam, CO2 or carbon dioxide fire fighting apparatus.
Special Fire Fighting Procedures: The use of self-contained breathing apparatus is recommended for fire fighters. Wear structural firefighters protective clothing.
Unusual Fire and Explosion Hazards: Can be made to burn (flash point 225°F). 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, strong acids or bases and selected amines.
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. When tested according to Federal Hazardous Substance Act product was not a primary skin irritant but produced moderate skin irritation on prolonged exposure and the concentrate was not an eye irritant. Also test on the concentrate showed that acute oral LD50 was not acutely toxic at 5.0 g./kg. Inhalation testing showed that the LC50 nominal concentration to be 13.2 mg./l. (actual concentration 3.8 mg./l. Prolonged overexposure by inhalation may cause headache, dizziness, nausea, unconsciousness.
2. None known by manufacturer.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No L.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%.

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## 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. Isoparaffinic hydrocarbons have caused kidney injury in male rats only. No comparable health hazard for kidney disease is known to occur in humans.

**Emergency and First Aid Procedures:** If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of eye contact immediately flush with plenty of water for at least 15 minutes; for skin, wash thoroughly with soap and water. If irritation persists get medical attention. Wash clothing before reuse. If swallowed, do not induce vomiting. Call a physician.

## SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

### Steps To Be Taken In Case Material Is Released Or Spilled:

Remove all sources of ignition. Avoid breathing vapors or spray mist. Ventilate area and remove with inert absorbent. Do not pick up solution with automatic scrubber or wet pick-up vacuum.

**Waste Disposal Method:** Dispose of in accordance with state or local regulations. Do not incinerate closed container. 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.

**Other Precautions:** Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. **USE ONLY WITH ADEQUATE VENTILATION.** Do not breathe vapors or spray mist. **Ensure fresh air entry during application and drying.** If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor / mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. Do not spray fine fog mist into sparks or open flame - vapors may ignite. Close container after each use. Avoid prolonged contact with eyes, skin and clothing. Wash thoroughly after handling. 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):** Usually not needed unless product is misted or heated. Wear appropriate, properly fitted respirator (NIOSH or MSHA approved) unless air monitoring demonstrates vapor or mist levels are above applicable limits.

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

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

**Protective Gloves:** Not necessary with normal use. If prolonged contact is unavoidable, wear polyvinyl chloride (PVC); neoprene; nitrile; polyvinyl alcohol; viton.

**Eye Protection:** Not necessary with normal use.

**Other Protective Clothing or Equipment:** Normal use - Protective clothing such as uniforms, coveralls. If prolonged contact is unavoidable, wear protective clothing made of the polyvinyl alcohol (PVA); polyvinyl chloride (PVC); neoprene; nitrile; viton; polyurethane.

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

## SECTION IX - TRANSPORTATION INFORMATION

**Applicable regulations:** CFR = no    IMCO = no    IATA = no.

**Proper shipping name for highway:** Petroleum Oil

**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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