

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 (505N-85A)****Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** UPHOLD**Address:** 302 North Fourth Street
St. Joseph, MO 64501**Date Prepared:** July 8, 2002**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. 8285)<http://www.hillyard.com>**SECTION II -- INGREDIENTS/IDENTITY INFORMATION****Components****(Specific Chemical Identity:**

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Silica-amorphous, hydrated	11296-00-8	6 mg/m ³	10 mg/m ³	N/A	5-9%
Water	7732-18-5	none	none	N/A	---
Acrylic Polymer emulsion	unknown to Hillyard	not established	not established	N/A	---
Waterborne Urethane	New Jersey trade secret 80100074-021	not established	not established	N/A	---
Diethylene Glycol Monomethyl Ether*	111-77-3	not established	not established	N/A	1-4
Diethylene Glycol Ethyl Ether*	111-90-0	not established	not established	N/A	1-4

*This product contains the following chemicals subject to the reporting requirements of SARA Title III, Sec. 313, and 40 CFR Part 372: Diethylene Glycol Monomethyl Ether and Diethylene Glycol Ethyl ether.

VOC = less than 200 gm/l.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 195°F **Specific Gravity (H₂O = 1):** 25°C = 1.05 & 39°C = 1.05
Vapor Pressure (mm Hg.): 17.4 mm **Percent Volatile by Volume (%):** 69.7%
Vapor Density (AIR = 1): 1.03 **Evaporation Rate (ethyl ether = 1):** slower than 1
Solubility in Water: Complete **Appearance and Odor:** White opaque liquid; non-objectionable odor
pH : 8.0-9.0

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA**Flash point:** None to boiling (TCC) **Flammable Limits:** LEL = N/A UEL = N/A**Extinguishing Media:** Carbon dioxide, dry chemical, foam.**Special Fire Fighting Procedures:** Wear full protective equipment including self-contained breathing apparatus.**Unusual Fire and Explosion Hazards:** Material will not support combustion unless the water is evaporated.**SECTION V -- PHYSICAL HAZARDS****Stability:** Stable **Conditions to Avoid:** None known to Hillyard**Incompatibility (Materials to Avoid):** Acids and anhydrides and strong oxidizers**Hazardous Decomposition Products or Byproducts:** Normal combustion products including carbon dioxide, monoxide, oxides of nitrogen**Hazardous Polymerization:** Will not occur **Conditions to Avoid:** None known to Hillyard**SECTION VI -- HEALTH HAZARD DATA****Routes of entry:** Inhalation? Yes Skin? Yes Ingestion? Yes**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. Prolonged contact may cause skin irritation. Product is not a primary skin irritant or eye irritant per Federal Hazardous Substance Act, Code of Federal Regulations 15, chapter IIc, paragraph 1500.41. Prolonged inhalation of fine mist may cause irritation to the nose, throat, or lungs. When tested was not acutely toxic to the test subjects following 1 hour static inhalation exposure at a nominal concentration of 2.7 g per liter. When tested the product was estimated to have an acute oral LD₅₀ of greater than 5 g/kg. 2. None known to manufacturer.

SECTION VI -- HEALTH HAZARD DATA continued

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%.

Signs and Symptoms of Exposure: Prolonged skin contact with concentrate may cause moderate skin irritation.

Medical Conditions Generally Aggravated by Exposure: Any pre-existing respiratory and skin disorder.

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. In case of contact immediately flush eyes with plenty of water for at least 15 minutes; if irritation persists, get medical attention. In case of skin contact, wash with soap and water. Ingestion: get medical attention immediately.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: If spilled, contain spilled material and remove with inert absorbent. Keep container closed when not in use. Do not let spilled or leaking material enter watercourse. Notify authorities if liquid enters nearby water intakes. Notify local health and wildlife officials.

Waste Disposal Method: Dispose of contaminated absorbent, container and unused contents in accordance with federal, state and local regulations.

Precautions To Be Taken In Handling And Storing: Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. USE ONLY WITH ADEQUATE VENTILATION. Do not breathe vapors, spray mist, or sanding dusts. 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 or leave the area. Follow respirator manufacturer's directions for respirator use. Close container after each use. Freezing of product may rupture container. Product shelf life is best retained by storage at 45-100°F temperatures. Keep containers closed when not in use. Follow label warnings until container is thoroughly cleaned or destroyed.

Other Precautions: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not take internally. Do not apply with spray mist type applicator.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): Normal good industrial engineering ventilation for public buildings is required unless confined space or spray application.

Ventilation:

Local Exhaust = Not required **Mechanical (General)** = Suggested **Special** = N/A **Other** = N/A

Protective Gloves: None required with label application method. **Eye Protection:** None required when using according to label directions.

Other Protective Clothing or Equipment: None required

Work / Hygienic Practices: Do not take internally; wash thoroughly after use.

SECTION IX - TRANSPORTATION INFORMATION

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

Proper shipping name: Varnish

UN No.: not applicable for highway **Limited Qty.:** not applicable **Hazard class:** not applicable for highway;

Labels required: not required for highway **DOT Exception:** not applicable

EPA Hazardous waste characteristics:

Ignitability = not applicable; **Corrosivity** = not applicable; **Reactivity** = not applicable

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