

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 (526N-18B)****Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** Satin Floor Finish**Address:** 302 North Fourth Street**Date Prepared:** February 21, 2005

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. 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	%
Silicone Dioxide	11295-52-5	not Established	not established	N/A	0.1-0.5
Zinc Oxide ⁽¹⁾	1314-13-2	5 mg/M ³	5 mg/M ³	N/A	0.5-0.8
Water	7732-18-5	none	none	N/A	---
Acrylic copolymer emulsion	unknown to Hillyard **	not established	not established	N/A	---
Diethylene glycol monoethyl ether*	111-90-0	not established	not established	N/A	3-5
Tributoxy ethyl phosphate*	78-51-2	not established	not established	N/A	---

(1) Regulated by the following the following states: FL, IL, LA, MA, NJ, PA, RI.

(2) Regulated by OSHA and the following states: FL, IL, LA, MA, NJ, PA, RI.

*This product contains the following chemicals subject to the reporting requirements of SARA Title III, Section 313, and 40 CFR Part 372: Diethylene glycol monoethyl ether, Tributoxy ethyl phosphate.

**EPA/TSCA Chemical Inventory – all ingredients listed

VOC (Concentrate) =5.05%**SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS****Boiling Point:** 211°F**Specific Gravity (H₂O = 1):** 25°C = 0.97 & 39°C = 0.97**Vapor Pressure (mm Hg.):** 19**Percent Volatile by Volume (%):** 80**Vapor Density (AIR = 1):** 1.3**Evaporation Rate (ethyl ether = 1):** slower than 1**Solubility in Water:** Soluable**Appearance and Odor:** white emulsion, non-objectionable odor**pH:** 8-9**SECTION IV – FIRE AND EXPLOSION HAZARD DATA****Flash point:** none (Tag Closed Cup)**Flammable Limits:** LEL = N/A UEL = N/A**Extinguishing Media:** N/A**Special Fire Fighting Procedures:** none**Unusual Fire and Explosion Hazards:** Material may spatter if temperature exceeds boiling point. Polymer film can burn.**SECTION V – PHYSICAL HAZARDS****Stability:** Stable **Conditions to Avoid:** N/A**Incompatibility (Materials to Avoid):** none known**Hazardous Decomposition Products or Byproducts:** Thermal decomposition may yield acrylic monomers (avoid temperatures above 177°C/350°F). Thermal decomposition is dependent on time and temperature.**Hazardous Polymerization:** Will not occur**Conditions to Avoid:** N/A**SECTION VI – HEALTH HAZARD DATA****Routes of entry:** Inhalation? yes Skin? yes Ingestion? yes**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. When tested per Federal Hazardous Substance Act product was found not to be a Primary Skin Irritant or a Primary Eye Irritant. Also when tested a similar product was not acutely toxic at 5 gm/kg. A similar product was not acutely toxic by inhalation at a nominal (or actual) concentration of 31.2 mg./L. Overexposure to high airborne levels or liquid splashes of Dipropylene glycol methyl ether may cause respiratory tract and mild eye irritation. The silica is not expected to be toxic by inhalation based on data available from components and similar materials.

2. None known.

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 contact with concentrate may cause mild eye and nose irritation.

Swallowing, breathing or absorbing Dipropylene glycol methyl ether may cause nausea and sleepiness.

Medical Conditions Generally Aggravated by Exposure: Dipropylene glycol methyl ether may aggravate obstructive airway diseases (persons with impaired pulmonary functions) and liver and kidney problems.

Emergency and First Aid Procedures: If inhaled, remove to fresh air. If discomfort persists, get medical attention. In case of contact, immediately flush eyes or skin with plenty of water. Do not use solvents or thinners. Remove contaminated clothing. Get medical attention if respiratory irritation persists. Launder contaminated clothing before reuse.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Pick up with mop or wet vac and wash away with water. Ventilate area of spill or leak. Transfer liquids and diking material to separate suitable containers for recovery or disposal. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

Waste Disposal Method: Spills should be picked up with wet vac or absorbent material. Dispose of liquid per federal, state and local regulations. Waste from normal product use may be sewerage to a public-owned treatment works (POTW) in compliance with applicable federal, state and local requirements.

Precautions To Be Taken In Handling And Storing: Freezing of product may rupture container. Product shelf life is best retained by storage at 45-100°F temperatures.

Other Precautions: Inhalation exposure to spray mist should be maintained at less than 10 mg/M³ per eight hour exposure (TWA limit est. for nuisance dust.)

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator.

Ventilation:

Local Exhaust = not required Mechanical (General) = suggested Special = N/A Other = N/A

Protective Gloves: none required for brief contact **Eye Protection:** chemical goggles (contact may cause pain, though it is unlikely to cause injury)

Other Protective Clothing or Equipment: Use good personal hygiene procedures.

Work / Hygienic Practices: Do not take internally; wash contaminated clothing before reuse.

SECTION IX – TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = no; IMCO = no; IATA = no

Proper shipping name: Liquid Floor Wax & Polish

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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