

MATERIAL SAFETY DATA SHEET**NFPA RATING:** Health = 0 Flammability = 0 Reactivity = 0***HMIS RATING:** Health = 0 Flammability = 0 Reactivity = 0**SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION** (518N-63A)**Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** TERRAZZINE**Address:** 302 North Fourth Street**Date Prepared:** January 27, 2009 (Version 2)

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	%
Water	7732-18-5	none	none	N/A	---
Acrylic copolymer	unknown	not established	not established	N/A	---
	to Hillyard				
Styrene acrylic emulsion	unknown	not established	not established	N/A	---
	to Hillyard				
Tributoxyethyl phosphate*	78-51-3	not established	not established	N/A	1-2.5
Diethylene glycol monoethyl ether*	111-90-0	not established	not established	N/A	1-2
Diethylene glycol mono methyl ether* ⁽¹⁾	111-77-3	not established	not established	N/A	1-2

(1) Regulated by the following states: FL, PA, RI

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

V.O.C. = 147.5 grams/liter; V.O.S. = 0.298 lbs./gallon

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: (739 mm Hg.)	208°F	Specific Gravity (H₂O = 1): 25°C = 1.03 & 39°C = 1.03
Vapor Pressure (mm Hg.):	18	Percent Volatile by Volume (%): 77.3
Vapor Density (AIR = 1):	1.1	Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: complete		Appearance and Odor: milky emulsion, non-objectionable odor
pH = 7.7		

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? N/A Skin? N/A Ingestion? N/A

SECTION VI – HEALTH HAZARD DATA cont.

HEALTH HAZARDS (1. Acute and 2. Chronic): 1. Mild eye irritation. 2. None known.

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: None known.

Medical Conditions Generally Aggravated by Exposure: None known.

Emergency and First Aid Procedures: If splashed into eyes flush with water for 15 minutes; if irritation persists get medical attention.

*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 sewered 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 vapors should be maintained at less than 10 mg/M³ per eight-hour exposure (TWA limit established 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 number / code: not listed

Hazardous waste characteristics:

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

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