

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** *(567N-98C)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: TERRAZZINE

Address: 302 North Fourth Street
St. Joseph, MO 64501

Date Prepared: May 23, 2014 (Version 3)

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	---
Styrene acrylic emulsion	unknown	not established	not established	N/A	---
Tributoxyethyl phosphate**	78-51-3	not established	not established	N/A	1-2
Diethylene glycol monoethyl ether**	111-90-0	not established	not established	N/A	1-2

**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.

*V.O.C. = 3.73%

***SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS**

***Boiling Point:** (739 mm Hg.) >210°F ***Specific Gravity (H₂O = 1):** 25°C 1.0256 ***Density:** 8.54 lb/gal

***Vapor Pressure (mm Hg.):** 17.675 ***Percent Volatile by Volume (%):** 77-78%

***Vapor Density (AIR = 1):** 1.089 ***Evaporation Rate (ethyl ether = 1):** slower than 1

Solubility in Water: complete ***Appearance and Odor:** milky emulsion, non-objectionable odor

***pH = 7.5-8.5**

***SECTION IV – FIRE AND EXPLOSION HAZARD DATA**

***Flash point:** >200°F (Tag Closed Cup) ***Flammable Limits:** LEL = N/A UEL = N/A

***Extinguishing Media:** Foam, Carbon Dioxide, Dry Chemical, Water Fog.

***Special Fire Fighting Procedures:** Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.

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 sewer 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.**DISCLAIMER OF WARRANTIES****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.**