The Cleaning Resource

SAFETY DATA SHEET

1. Identification

Product identifier TERRAZZINE

Other means of identification

SDS number 575N-043C Product code HIL00338 Floor Finish Recommended use **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer Manufacturer

HILLYARD INDUSTRIES Company name **Address** 302 North Fourth St.

St. Joseph, MO 64501

Regulatory Affairs **Contact person**

Telephone number (816) 233-1321 (Ext. 8285)

(816) 383-8485 Fax

regulatoryaffairs@hillyard.com E-mail

(800) 424-9300 **Emergency telephone #**

(Only in the event of chemical emergency involving a spill, leak, fire, exposure,

or accident involving chemicals.)

2. Hazard(s) identification

Not classified. Physical hazards **Health hazards** Not classified.

Environmental hazards Hazardous to the aquatic environment, acute Category 3

hazard

OSHA defined hazards Not classified.

Label elements

Hazard symbol None. None. Signal word

Hazard statement Harmful to aquatic life.

Precautionary statement

Avoid release to the environment. Prevention Wash hands after handling. Response

Store away from incompatible materials. **Storage**

Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal**

Buyer assumes all risk and liability associated with disposal of this product (original concentration

or dilution) in violation of applicable law. Waste from normal use may be sewered to a

public-owned treatment works in compliance with applicable federal, state and local requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 24.77% of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-(2-ethoxyethoxy)ethanol		111-90-0	1 - < 3

Chemical name	Common name and synonyms	CAS number	%
Tributoxyethyl Phosphate		78-51-3	1 - < 3
Other components below reportable	e levels		90 - 100

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eve contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Continue rinsing.

Ingestion Rinse mouth thoroughly. Drink water as a precaution. Get medical attention if any discomfort

continues.

Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

During fire, gases hazardous to health may be formed.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

and precautions for firefighters

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Material can be slippery when wet. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. For personal protection, see section 8 of the SDS. Local authorities should be advised if significant spillages cannot be contained. Follow precautions for safe handling described in this safety data sheet. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components
Type
Value

2-(2-ethoxyethoxy)ethanol
(CAS 111-90-0)
TWA
140 mg/m3
25 ppm

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Where splashing of concentrate is a concern, use protective glasses with side shield.

Skin protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

Other Not normally needed.

Respiratory protection Not normally required with adequate ventilation.

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards None known.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

Appearance Milky emulsion

Physical state Liquid.

Form Liquid.

Color Milky white

Odor non-objectionable odor

Odor threshold Not available
pH 7.5 - 8.5

Melting point/freezing point Not available

Initial boiling point and boiling

range

> 200 °F (> 93.33 °C)

Flash point > 200.0 Tag Closed Cup Evaporation rate < 1 Ethyl ether = 1

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 17.51 mm Hg

Vapor density 0.754 AIR=1

Relative density 1.024 at 77°F

Solubility(ies)

Solubility (water) Complete

Partition coefficient Not available

(n-octanol/water)

Auto-ignition temperatureNot availableDecomposition temperatureNot availableViscosityNot available

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Other information

 Density
 8.53 lb/gal

 Percent volatile
 77.5 - 78.5 %

 VOC (Weight %)
 3.27 % US EPA

 0.43 % CARB

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact May be irritating to the skin.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Spacias

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Test Results

Information on toxicological effects

Acute toxicity

Product

Product	Species	lest Results
TERRAZZINE		
Acute		
Dermal		
LD50	Rabbit	14347.2021 ml/kg estimated
		1254.9537 g/kg estimated
Inhalation		
LC50	Mouse	11705.1074 mg/l, 10 Minutes estimated
		5535.4199 mg/l, 1 Hours estimated
		5453.0479 mg/l, 2 Hours estimated
	Rabbit	11614.4971 mg/l, 1 Hours estimated
	Rat	12520.5928 mg/l, 2 Hours estimated
		8401.9766 mg/l, 1 Hours estimated
Oral		
LD50	Guinea pig	57636.8867 mg/kg estimated
	Mouse	231.7717 g/kg estimated
	Rat	39456.207 mg/kg estimated
		10616.9297 ml/kg estimated
Components	Species	Test Results
2-(2-ethoxyethoxy)ethanol	(CAS 111-90-0)	
Acute		
Dermal		
LD50	Rabbit	8476 mg/kg
	Rat	6000 mg/kg

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Components Species		Test Results	
Oral			
LD50	Mouse	6.58 g/kg	
	Rat	1920 mg/kg	
Tributoxyethyl Phosphate	(CAS 78-51-3)		
Acute			
Oral			
LD50	Guinea pig	3000 mg/kg	
	Rat	3000 mg/kg	

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Serious eye damage/eye Prolonged skin contact may cause temporary irritation.

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Harmful to aquatic life.

Product		Species	Test Results
TERRAZZINE			
Aquatic			
Crustacea	EC50	Daphnia	18937.1055 mg/l, 48 hours estimated
Fish	LC50	Fish	418.4298 mg/l, 96 hours estimated
Components		Species	Test Results
2-(2-ethoxyethoxy)eth	anol (CAS 111-90-0	0)	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 10000 mg/l, 96 hours
Tributoxyethyl Phosph	nate (CAS 78-51-3)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas	s) 10.4 - 12 mg/l, 96 hours

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2-(2-ethoxyethoxy)ethanol -0.54 Tributoxyethyl Phosphate 3.75

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not

contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Buyer assumes all risk and liability associated with disposal of this product (original concentration or

dilution) in violation of applicable law.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.

14. Transport information

DOT

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region Inventory name

On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 03-16-2015

Version # 01

HMIS® ratings Health: 0

Flammability: 0 Physical hazard: 0

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disposal of these products.