

SAFETY DATA SHEET

1. Identification

Product identifier TERRAZZINE

Other means of identification

SDS number 587N-099B **Product code** HIL00338 Recommended use Floor Finish

Recommended restrictions For Labeled Use Only

KEEP FROM FREEZING

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

HILLYARD INDUSTRIES Company name 302 North Fourth St. **Address** St. Joseph, MO 64501

Contact person Regulatory Affairs

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

Fax (816) 383-8485

regulatoryaffairs@hillyard.com E-mail

Emergency telephone # (800) 424-9300

(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

None. Hazard symbol Signal word None.

Harmful to aquatic life. **Hazard statement**

Precautionary statement

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

Storage Store away from incompatible materials.

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

> or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ethoxydiglycol		111-90-0	1 - < 3

Chemical nameCommon name and synonymsCAS number%Tributoxyethyl Phosphate78-51-31 - < 3</td>Other components below reportable levels90 - 100

4. First-aid measures

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

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Wash off with

soap and water. Get medical attention if irritation develops and persists.

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

Continue rinsing. Get medical attention if irritation develops and persists.

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

continues.

Most important

symptoms/effects, acute and

delayed

May cause an allergic skin reaction.

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

protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

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

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

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

Fire fighting

equipment/instructions

Specific methods

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

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

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. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. 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

Methods and materials for containment and cleaning up

This product is miscible in water. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. 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.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. Workplace Environmental Exposure Level (WEEL) Guides

Components Type Value

TWA

Ethoxydiglycol (CAS

111-90-0)

25 ppm

140 mg/m3

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

Appropriate engineering

controls

Good general ventilation 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 Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Where splashing of

concentrate is a concern, use protective glasses with side shield

Skin protection

Hand protection Not normally needed. 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, white emulsion

Physical state Liquid.
Form Liquid.
Color White

Odor non-objectionable odor

Odor threshold Not available pH 7.5 - 8.5

Melting point/freezing point Not applicable / 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 applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 17.51 mm Hg

Vapor density 0.7535 AIR=1

Relative density 1.024 at 77°F

Solubility(ies)

Solubility (water) 100 % Complete
Partition coefficient Not available

(n-octanol/water)

Auto-ignition temperature Not available

Decomposition temperature Not available

Viscosity Not available

Other information

Density 8.53 lb/gal
Explosive properties Not explosive.

Oxidizing properties Not oxidizing. Percent volatile 77.5 - 78.5 % VOC 2.9 % US EPA VOC

0.06 % CARB VOC

10. Stability and reactivity

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

Material is stable under normal conditions. **Chemical stability**

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.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not known.

Product Test Results Species

TERRAZZINE

Acute

Dermal

LD50 Rat 210700 mg/kg

Inhalation

LC50 Rat 8402 mg/l, 1 Hours

Oral

LD50 Rat 39420 mg/kg Components **Species Test Results**

Ethoxydiglycol (CAS 111-90-0)

Acute

Dermal

LD50 Rat 6000 mg/kg

Tributoxyethyl Phosphate (CAS 78-51-3)

Acute

Oral

LD50 Rat 3000 mg/kg

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation

Direct contact with eyes may cause temporary 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.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity This 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

Harmful to aquatic life. **Ecotoxicity**

Product		Species	Test Results
TERRAZZINE			
Aquatic			
Crustacea	EC50	Daphnia	18891.3574, 48 hours
Fish	LC50	Fish	418.4066, 96 hours
Acute			
Crustacea	EC50	Daphnia	113555.0781, 48 hours estimated
Fish	LC50	Fish	409.6698, 96 hours estimated
Components		Species	Test Results

Ethoxydiglycol (CAS 111-90-0)

Aquatic

Acute

LC50 Fathead minnow (Pimephales promelas) >= 7910 - <= 11800 mg/l, 96 hours Fish

Tributoxyethyl Phosphate (CAS 78-51-3)

Aquatic

Acute

LC50 Fish Fathead minnow (Pimephales promelas) >= 10.4 - <= 12 mg/l, 96 hours

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

-0.54 Ethoxydiglycol Tributoxyethyl Phosphate 3.75

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

13. Disposal considerations

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

this material to drain into sewers/water supplies. 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.

Local disposal regulations

Dispose in accordance with all applicable 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. Empty containers should be taken to an approved waste handling site for recycling or

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

Material name: TERRAZZINE SDS US HIL00338 Version #: 04 Revision date: 09-14-2022 Issue date: 03-16-2015 5/7

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations

Toxic Substances Control Act (TSCA)One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".

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.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act No.

Not regulated.

(SDWA)

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Tributoxyethyl Phosphate (CAS 78-51-3)

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. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

 Issue date
 03-16-2015

 Revision date
 09-14-2022

^{*}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

Version # 04

HMIS® ratings Health: 0

Flammability: 0 Physical hazard: 0

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disposal of these products.

Revision information This document has undergone significant changes and should be reviewed in its entirety.