1. Identification

Product identifier SEAL 341

Other means of identification
- SDS number: 582N-106E
- Product code: HIL00341
- Recommended use: Floor Finish
- Recommended restrictions: For Labeled Use Only

Manufacturers/Importer/Supplier/Distributor information

Manufacturer
- Company name: HILLYARD INDUSTRIES
- Address: 302 North Fourth St.
  St. Joseph, MO 64501

Contact person: Regulatory Affairs
- Telephone number: (816) 233-1321 (Ext. 8285)
- Fax: (816) 383-8485
- E-mail: regulatoryaffairs@hillyard.com
- 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

Physical hazards Not classified.
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.
- Signal word: None.
- Hazard statement: Harmful to aquatic life.

Precautionary statement
- Prevention: Avoid release to the environment.
- 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.

3. Composition/information on ingredients

Mixtures

Material name: SEAL 341
HIL00341 Version #: 05 Revision date: 11-10-2021 Issue date: 11-18-2014

SDS US 1 / 7
**CAS number**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethoxydiglycol</td>
<td></td>
<td>111-90-0</td>
<td>5 - &lt; 10</td>
</tr>
<tr>
<td>Tributoxyethyl Phosphate</td>
<td></td>
<td>78-51-3</td>
<td>1 - &lt; 3</td>
</tr>
</tbody>
</table>

*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.

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

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

**Fire fighting 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. 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 SDS.

**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.
- 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. 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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethoxydiglycol (CAS 111-90-0)</td>
<td>TWA</td>
<td>140 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

**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. Where splashing of concentrate is a concern, use protective glasses with side shield

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

**Hand protection**
Not normally needed.

**Other**

**Respiratory protection**
No personal respiratory protective equipment normally required.

**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**
Milky white

**Odor**
non-objectionable odor

**Odor threshold**
Not available

**pH**
8.25 - 9.25

**Melting point/freezing point**
Not applicable / Not available

**Initial boiling point and boiling range**
> 200 °F (> 93.33 °C)

**Flash point**
> 200.0 °F (> 93.3 °C) 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**
18.16 mm Hg

**Vapor density**
1.3458 AIR=1

**Relative density**
1.029 at 77°F

**Solubility(ies)**

**Solubility (water)**
Appreciable

**Partition coefficient (n-octanol/water)**
Not available

**Auto-ignition temperature**
Not available

**Decomposition temperature**
Not available

**Viscosity**
Not available

**Other information**

**Density**
8.57 lb/gal

**Explosive properties**
Not explosive.

**Oxidizing properties**
Not oxidizing.
Percent volatile: 77.5 - 78.5%
VOC: CARB Compliant

10. Stability and reactivity

Reactivity: The 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: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. 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

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Not known.</th>
</tr>
</thead>
</table>

**Product** | **Species** | **Test Results**
---|---|---
SEAL 341  |  |  |
**Acute** |  |  |
**Dermal** |  |  |
LD50 | Rabbit | 24630 mg/kg |
**Inhalation** |  |  |
LC50 | Rat | 14130 mg/l, 1 Hours |
**Oral** |  |  |
LD50 | Rat | 23900 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.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity: Not classifiable as to carcinogenicity to humans.
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

Ecotoxicity
Harmful to aquatic life.

Product     Species     Test Results
SEAL 341
  Aquatic
  Crustacea EC50  Daphnia  1075.1927, 48 hours
  Fish      LC50  Fish     434.3496, 96 hours
  Acute
  Crustacea EC50  Daphnia  537.5943, 48 hours estimated
  Fish      LC50  Fish     402.7233, 96 hours estimated

Components
  Species     Test Results
  Ethoxydiglycol (CAS 111-90-0)
    Aquatic
    Acute
    Fish      LC50  Fathead minnow (Pimephales promelas)  >= 7910 - <= 11800 mg/l, 96 hours
  Tributoxyethyl Phosphate (CAS 78-51-3)
    Aquatic
    Acute
    Fish      LC50  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)
  Ethoxydiglycol        -0.54
  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.

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 emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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 Annex II of MARPOL 73/78 and the IBC Code
Not established.

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.

Toxic Substances Control Act (TSCA)
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 chemical
No
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 (SDWA)
Contains component(s) regulated under the Safe Drinking Water Act.

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

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>Yes</td>
</tr>
</tbody>
</table>
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: 11-18-2014
Revision date: 11-10-2021
Version #: 05

HMIS® ratings
- Health: 0
- Flammability: 0
- Physical hazard: 0

Disclaimer
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.

Revision information
- Hazard(s) identification: Disposal
- Composition / Information on Ingredients: Disclosure Overrides
- Physical & Chemical Properties: Multiple Properties
- Toxicological Information: Toxicological Data
- GHS: Classification