

## 1. Identification

**Product identifier** ENDEAVOUR

**Other means of identification**

**NSN** 7930-01-380-8447, 7930-01-380-8387, 7930-01-380-8363

**LHB Part No.** 1064436, 1064427, 1064424

**Recommended use** Floor Finish

**Recommended restrictions** For Labeled Use Only

### Manufacturer/Importer/Supplier/Distributor information

|                     | <b>Manufacturer</b>                          | <b>Distributor</b>                         |
|---------------------|----------------------------------------------|--------------------------------------------|
| <b>Company name</b> | HILLYARD INDUSTRIES                          | LIGHTHOUSE FOR THE BLIND                   |
| <b>Address</b>      | 302 North Fourth St.<br>St. Joseph, MO 64501 | 8833 Fleischer Place<br>Berkeley, MO 63134 |

**Emergency**

**24 Hour Emergency Telephone No.** (800) 633-8253 (PERS)

**Customer Service** (314) 423-4333

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Not classified.

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

### Label elements

**Hazard symbol** None.

**Signal word** None.

**Hazard statement** The mixture does not meet the criteria for classification.

### Precautionary statement

**Prevention** Observe good industrial hygiene practices.

**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   | 3 - < 5 |

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

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>                                         | Move to fresh air. Call a physician if symptoms develop or persist.                                                     |
| <b>Skin contact</b>                                       | Wash off with soap and water. Get medical attention if irritation develops and persists.                                |
| <b>Eye contact</b>                                        | Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Continue rinsing. |
| <b>Ingestion</b>                                          | Rinse mouth thoroughly. Drink water as a precaution.                                                                    |
| <b>Most important symptoms/effects, acute and delayed</b> | Direct contact with eyes may cause temporary irritation.                                                                |
| <b>General information</b>                                | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.        |

## 5. Fire-fighting measures

|                                                                      |                                                                                               |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).                                   |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.                        |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.                                         |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>Fire fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk.                                 |
| <b>Specific methods</b>                                              | Use standard firefighting procedures and consider the hazards of other involved materials.    |
| <b>General fire hazards</b>                                          | No unusual fire or explosion hazards noted.                                                   |

## 6. Accidental release measures

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Material can be slippery when wet. Follow precautions for safe handling described in this safety data sheet.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Methods and materials for containment and cleaning up</b>               | <p>This product is miscible in water.</p> <p>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.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills to original containers for re-use.</p> |
| <b>Environmental precautions</b>                                           | Avoid discharge into drains, water courses or onto the ground.                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## 7. Handling and storage

|                                                                     |                                             |
|---------------------------------------------------------------------|---------------------------------------------|
| <b>Precautions for safe handling</b>                                | Avoid prolonged exposure.                   |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in original tightly closed container. |

## 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     |
|-------------------------------|------|-----------|
| Ethoxydiglycol (CAS 111-90-0) | TWA  | 140 mg/m3 |

**US. Workplace Environmental Exposure Level (WEEL) Guides****Components****Type****Value**

25 ppm

|                                                                              |                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biological limit values</b>                                               | No biological exposure limits noted for the ingredient(s).                                                                                                                                                                                                                                                                                                |
| <b>Appropriate engineering controls</b>                                      | 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. |
| <b>Individual protection measures, such as personal protective equipment</b> |                                                                                                                                                                                                                                                                                                                                                           |
| <b>Eye/face protection</b>                                                   | Avoid contact with eyes.                                                                                                                                                                                                                                                                                                                                  |
| <b>Skin protection</b>                                                       |                                                                                                                                                                                                                                                                                                                                                           |
| <b>Hand protection</b>                                                       | Not normally needed.                                                                                                                                                                                                                                                                                                                                      |
| <b>Other</b>                                                                 | Not normally needed.                                                                                                                                                                                                                                                                                                                                      |
| <b>Respiratory protection</b>                                                | No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment.                                                                                                                                                                                                                 |
| <b>Thermal hazards</b>                                                       | None known.                                                                                                                                                                                                                                                                                                                                               |
| <b>General hygiene considerations</b>                                        | 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**

|                                                     |                                       |
|-----------------------------------------------------|---------------------------------------|
| <b>Appearance</b>                                   | Milky, white emulsion                 |
| <b>Physical state</b>                               | Liquid.                               |
| <b>Form</b>                                         | Liquid.                               |
| <b>Color</b>                                        | Milky white                           |
| <b>Odor</b>                                         | Non-objectional odor                  |
| <b>Odor threshold</b>                               | Not applicable                        |
| <b>pH</b>                                           | 8 - 9 Concentrate                     |
| <b>Melting point/freezing point</b>                 | Not applicable / Not available        |
| <b>Initial boiling point and boiling range</b>      | > 200 °F (> 93.33 °C)                 |
| <b>Flash point</b>                                  | > 200.0 °F (> 93.3 °C) Tag Closed Cup |
| <b>Evaporation rate</b>                             | < 1 ethyl ether=1                     |
| <b>Flammability (solid, gas)</b>                    | Not applicable.                       |
| <b>Upper/lower flammability or explosive limits</b> |                                       |
| <b>Explosive limit - lower (%)</b>                  | Not available.                        |
| <b>Explosive limit - upper (%)</b>                  | Not available.                        |
| <b>Vapor pressure</b>                               | 17.6 mm Hg                            |
| <b>Vapor density</b>                                | 0.8891 AIR=1                          |
| <b>Relative density</b>                             | 1.03 at 77°F                          |
| <b>Solubility(ies)</b>                              |                                       |
| <b>Solubility (water)</b>                           | 100 %                                 |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available                         |
| <b>Auto-ignition temperature</b>                    | Not available                         |
| <b>Decomposition temperature</b>                    | Not available                         |
| <b>Viscosity</b>                                    | Not available                         |
| <b>Other information</b>                            |                                       |
| <b>Density</b>                                      | 8.55 lb/gal                           |
| <b>Explosive properties</b>                         | Not explosive.                        |
| <b>Oxidizing properties</b>                         | Not oxidizing.                        |
| <b>Percent volatile</b>                             | 81.5 - 82.5 %                         |

## 10. Stability and reactivity

|                                           |                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.                                                   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Avoid temperatures exceeding the flash point. Contact with incompatible materials.            |
| <b>Incompatible materials</b>             | Strong oxidizing agents.                                                                      |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.                                                |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| <b>Inhalation</b>   | Prolonged inhalation may be harmful.                     |
| <b>Skin contact</b> | May be irritating to the skin.                           |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation. |
| <b>Ingestion</b>    | 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 | Species | Test Results |
|---------|---------|--------------|
|---------|---------|--------------|

ENDEAVOUR

#### Acute

#### **Dermal**

LD50 Rabbit 12520 mg/kg

#### **Inhalation**

LC50 Rat 38930 mg/l, 1 Hours

#### **Oral**

LD50 Rat 27190 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

\* Estimates for product may be based on additional component data not shown.

**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** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Product                                |      | Species                              | Test Results                      |
|----------------------------------------|------|--------------------------------------|-----------------------------------|
| ENDEAVOUR                              |      |                                      |                                   |
| <b>Aquatic</b>                         |      |                                      |                                   |
| Fish                                   | LC50 | Fish                                 | 348.6765 mg/l, 96 hours estimated |
| Components                             |      | Species                              | Test Results                      |
| Ethoxydiglycol (CAS 111-90-0)          |      |                                      |                                   |
| <b>Aquatic</b>                         |      |                                      |                                   |
| Fish                                   | LC50 | Bluegill (Lepomis macrochirus)       | > 10000 mg/l, 96 hours            |
| Tributoxyethyl Phosphate (CAS 78-51-3) |      |                                      |                                   |
| <b>Aquatic</b>                         |      |                                      |                                   |
| Fish                                   | LC50 | Fathead minnow (Pimephales promelas) | 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)

|                          |       |
|--------------------------|-------|
| Ethoxydiglycol           | -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.

**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).

**Contaminated packaging** 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****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)** Not regulated.

**US state regulations**

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)* |
|-----------------------------|-----------------------------------------------|------------------------|
| Canada                      | Domestic Substances List (DSL)                | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)           | 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** 11-17-2014  
**Revision date** 01-21-2020  
**Version #** Lighthouse Version #1 based on HIL00525  
**HMIS® ratings** Health: 1 Flammability: 0 Physical hazard: 0

**Disclaimer**

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**Revision information**

Physical & Chemical Properties: Multiple Properties  
Physical and chemical properties: Appearance