

## 1. Identification

**Product identifier** NORTH STAR

**Other means of identification**

**SDS number** 567N26B

**Product code** HIL00528

**Recommended use** Floor Finish

**Recommended restrictions** For Labeled Use Only

**Manufacturer/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.

**Supplemental information** None.

## 3. Composition/information on ingredients

### Mixtures

| Chemical name             | Common name and synonyms | CAS number | %        |
|---------------------------|--------------------------|------------|----------|
| 2-(2-ethoxyethoxy)ethanol |                          | 111-90-0   | 5 - < 10 |

Material name: NORTH STAR

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| 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>  | Drink water as a precaution. Get medical attention if any discomfort continues.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Direct contact with eyes may cause temporary irritation.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.  |
| <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 (CO <sub>2</sub> ).                      |
| <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. 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. 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.  |
| <b>Methods and materials for containment and cleaning up</b>               | This product is miscible in water. Prevent product from entering drains.<br><br>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.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. |
| <b>Environmental precautions</b>   | 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

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. |
| <b>Conditions for safe storage, including any incompatibilities</b> | 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

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. AIHA Workplace Environmental Exposure Level (WEEL) Guides

| Components                                  | Type | Value     |
|---|------|-----------|
| 2-(2-ethoxyethoxy)ethanol<br>(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 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.

#### Skin protection

##### Hand protection

Not normally needed.

##### Other

If unable to avoid prolonged or repeated contact with skin, wear impervious clothing.

#### Respiratory protection

Not normally required with adequate ventilation.

#### 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-objectional odor

### Odor threshold

Not available

### pH

8 - 9 Concentrate

### 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

17.6 mm Hg

### Vapor density

1.3 (AIR = 1)

### Relative density

1.03 at 77°F

### Solubility(ies)

#### Solubility (water)

100 % Complete

### Partition coefficient (n-octanol/water)

Not available

### Auto-ignition temperature

Not available

### Decomposition temperature

Not available

### Viscosity

Not available.

## Other information

|                      |                |
|----------------------|----------------|
| Density              | 8.59 lb/gal    |
| Explosive limit      | Not available  |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |
| Percent volatile     | 77.5 - 78.5 %  |
| Specific gravity     | 1.03           |
| 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                | 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

|                |            |
|----------------|------------|
| Acute toxicity | Not known. |
|----------------|------------|

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

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.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Not regulated.

|                       |  |
|-----------------------|--|
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. |
|-----------------------|--|

|   |                                      |
|---|--------------------------------------|
| <b>Specific target organ toxicity - single exposure</b>   | Not classified.                      |
| <b>Specific target organ toxicity - repeated exposure</b> | Not classified.                      |
| <b>Aspiration hazard</b>                                  | Prolonged inhalation may be harmful. |
| <b>Chronic effects</b>                                    | Prolonged inhalation may be harmful. |

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life.

| Product                                  |      | Species                              | Test Results                      |
|--|------|--------------------------------------|-----------------------------------|
| NORTH STAR                               |      |                                      |                                   |
| <b>Aquatic</b>                           |      |                                      |                                   |
| Fish                                     | LC50 | Fish                                 | 349.1882 mg/l, 96 hours estimated |
| Components                               |      | Species                              | Test Results                      |
| 2-(2-ethoxyethoxy)ethanol (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)

|                           |       |
|---------------------------|-------|
| 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

|  |  |
|--|--|
| <b>Disposal instructions</b>                 | 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. |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.   |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| <b>Waste from residues / unused products</b> | 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).   |
| <b>Contaminated packaging</b>                | 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. Triple rinse (or equivalent). Then offer clean, dry container for recycling or reconditioning.                                |

## 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 or Exempt.  
This product is 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 regulated.

### **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 chemical** No

**SARA 313 (TRI reporting)**  
Not regulated.

### **Other federal regulations**

**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                    |
| 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** 01-08-2015

**Revision date** 07-06-2017

**Version #** 03

**HMIS® ratings** Health: 1  
Flammability: 0  
Physical hazard: 0

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