# SAFETY DATA SHEET



#### 1. Identification

Product identifier	NORTH STAR
Other means of identification	
SDS number	567N26B
Product code	HIL00528
Recommended use	Floor Finish
<b>Recommended restrictions</b>	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 Not classified. **Physical hazards** Not classified. **Health hazards 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. Wash hands after handling. Response Storage Store away from incompatible materials. Buyer assumes all risk and liability associated with disposal of this product (original concentration Disposal 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 None known. classified (HNOC) 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			SDS US

Chemical name	Common name and synonyms	CAS number	%
Tributoxyethyl Phosphate		78-51-3	1 - < 3
Other components below report	able levels		90 - 100
*Designates that a specific chemica	al identity and/or percentage of composition has	been withheld as a trade seci	et.
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms		
Skin contact	Wash off with soap and water. Get medical atte	-	-
Eye contact	Immediately flush with plenty of water for at lea Continue rinsing.	ast 15 minutes. If easy to do, r	emove contact lenses
Ingestion	Drink water as a precaution. Get medical atten	tion if any discomfort continue	S.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary	irritation.	
Indication of immediate medical attention and special treatment needed	Treat symptomatically.		
General information	Ensure that medical personnel are aware of the protect themselves.	e material(s) involved, and tak	e precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbo	n dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this	s 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 consi	der the hazards of other invol	ved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep peop be slippery when wet. Wear appropriate protect Ensure adequate ventilation. Local authorities contained. Follow precautions for safe handling protection, see section 8 of the SDS.	tive equipment and clothing d should be advised if significar	uring clean-up. t spillages cannot be
Methods and materials for	This product is miscible in water. Prevent product	uct from entering drains.	
containment and cleaning up	Large Spills: Stop the flow of material, if this is possible. Absorb in vermiculite, dry sand or ear recovery, flush area with water.		
	Small Spills: Wipe up with absorbent material ( remove residual contamination.	e.g. cloth, fleece). Clean surfa	ace thoroughly to
	Never return spills to original containers for re-	use. For waste disposal, see s	section 13 of the SDS
Environmental precautions	Avoid release to the environment. Inform appro environmental releases. Prevent further leakage drains, water courses or onto the ground.	opriate managerial or supervis	ory personnel of all
7. Handling and storage			
Precautions for safe handling	Avoid prolonged exposure. Provide adequate very equipment. Avoid release to the environment.		
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store 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.

Components	Туре	Value	
2-(2-ethoxyethoxy)ethanol (CAS 111-90-0)	TWA	140 mg/m3	
, , , , , , , , , , , , , , , , , , ,		25 ppm	
iological limit values	No biological exposure limits noted fo	r the ingredient(s).	
ppropriate engineering ontrols	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.		
ndividual protection measures	, such as personal protective equipm	ent	
Eye/face protection	Avoid contact with eyes.		
Skin protection			
Hand protection	Not normally needed.		
Other	If unable to avoid prolonged or repeat	ed contact with skin, wear impervious clothing.	
<b>Respiratory protection</b>	Not normally required with adequate ventilation.		
Thermal hazards	None known.		
eneral hygiene onsiderations		ne measures, such as washing after handling the material noking. Routinely wash work clothing and protective	

#### 9. Physical and chemical properties

Appearance	Milky emulsion
Physical state	Liquid.
Form	Liquid.
Color	Milky white
Odor	Non-objectional odor
Odor threshold	Not available
рН	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 exp	losive 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 7	8-51-3)		
Acute			
Oral			
LD50	Rat	3000 mg/kg	
* Estimates for product may b	be based on additiona	al component data not shown.	
Skin corrosion/irritation	Prolonged skin cor	ntact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitizatio	n		
<b>Respiratory sensitization</b>	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		data available to indicate product or any components present at greater than 0.1% are tagenic or genotoxic.	
Carcinogenicity	Not classifiable as	Not classifiable as to carcinogenicity to humans.	
IARC Monographs. Overall	Evaluation of Carci	nogenicity	
Not listed.			
US. National Toxicology Pr	ogram (NTP) Report	on Carcinogens	
Not listed.			
US. OSHA Specifically Reg	ulated Substances (	29 CFR 1910.1001-1050)	
Not regulated.			
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	Prolonged inhalation may be harmful.
Chronic effects	Prolonged inhalation may be harmful.

## 12. Ecological information

Ecotoxicity	Harmful to aquatic life.		
Product		Species	Test Results
NORTH STAR			
Aquatic			
Fish	LC50	Fish	349.1882 mg/l, 96 hours estimated
Components		Species	Test Results
2-(2-ethoxyethoxy)ethanol (CA	AS 111-90-0)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 10000 mg/l, 96 hours
Tributoxyethyl Phosphate (CA	S 78-51-3)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	10.4 - 12 mg/l, 96 hours
* Estimates for product may be	e based on addi	tional component data not shown.	
Persistence and degradability	No data is ava	ilable on the degradability of this product.	
Bioaccumulative potential			
Partition coefficient n-octan 2-(2-ethoxyethoxy)ethanol Tributoxyethyl Phosphate	ol / water (log ł	<b>(ow)</b> -0.54 3.75	
Mobility in soil	No data availa	ble.	
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 consideration	าร		
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).		
Contaminated packaging	emptied. Emp	containers may retain product residue, fol ty containers should be taken to an approv e rinse (or equivalent). Then offer clean, du	
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

country(s).

15. Regulatory miormatio		
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 Substa	nce List (40 CFR 302.4)	
Not listed.		
SARA 304 Emergency relea	se notification	
Not regulated.		
	ulated Substances (29 CFR 1910.1001-1050)	
Not regulated.		
•	authorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - No Delayed Hazard - No	
	Fire Hazard - No	
	Pressure Hazard - No	
	Reactivity Hazard - No	
SARA 302 Extremely hazar	dous 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 compo A "No" indicates that one or more country(s)	nents of this product comply with the inventory requirements administered by the gove components of the product are not listed or exempt from listing on the inventory admi	rning country(s) inistered by the governing

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