# Safety Data Sheet

### **Section 1. Identification**

GHS product Identifier Polyguard NHT 5600 Epoxy Base-Part A

Other means of identification Not available

#### Relevant identified used of the substance or mixtures and uses advised against

Used for protection of pipeline field joints, girth welds, valves, fittings. This product may also be used to repair holidays on FBE coated pipes and as a pipeline rehabilitation coating.

**Supplier's details** Polyguard Products, Inc.

4101 South Interstate 45 Ennis, TX 75119 Tel: (214) 515-5000

**Emergency telephone number) with** 

hours of operation)

CHEMTREC, US 1-800-424-9300 International 1-703-527-3887

(24/7)

### **Section 2. Hazards Identification**

OSHA/HCS status This material is considered hazardous by the OSHA Hazardous Communications Standard

(49CFR1910.1200). This SDS contains valuable information critical to the safe handling and proper use of the product and should be retained and available for employees and other

users of this product.

Classification of the substance or

mixture

Response

Skin Irritation- Category 2 Skin Sensitizer- Category 1

Aquatic Hazard (Long-term)- Category 2

**GHS label elements Hazard Pictogram** 







Signal word DANGER

**Hazard statement** H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H305i, H372 - May cause cancer by inhalation

H412- Harmful to aquatic life with long lasting effects

**Precautionary statements** 

**Prevention** P201- Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P281 - Use personal protective equipment as required.

P280- Wear protective gloves. Wear eye or face protection. Wear protective clothing.

P273 - Avoid release to the environment.

P260 - Do not breathe dust/fume/mist/vapors/spray P261- Avoid breathing dust/fume/gas/mist/vapor/spray. P270- Do not eat, drink or smoke when using this product.

P264- Wash hands thoroughly after handling.

P272- Contaminated work clothing should not be allowed out of the work place.

P391- Collect spillage

P314- Get medical attention if you feel unwell.

P308, P313- IF exposed or concerned: get medical attention.

P304,P340,P310- IF INHALED: remove victim to fresh air and keep at rest position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

### Section 2. Hazards Identification

Response P301,P310,P330,P331-IF SWALLOWED: Immediately call a POISON CENTER or

physician. Rinse mouth. DO NOT induce vomiting.

P303,P361,P353,- IF ON SKIN (or hair) Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P302, P352, P363- IF ON SKIN: wash with plenty of soap and water. Wash contaminated

clothing before reuse.

P333,P313- If skin irritation or rash occurs: Get medical attention.

P305,P351,P338,P310- IF IN EYES: rinse caustiously with water for 20 minutes. Remove contacts lenses if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER or physician.

Storage P405- Stored locked up

Disposal P501- Dispose of contents and container in accordance with local, regional and

international regulations.

Hazards not otherwise classified None known

### **Section 3. Composition/Information on Ingredients**

**Substance/Mixture** Mixture **Other means of identification** Not available

Ingredient name	<b>%</b>	CAS#
Modified Bisphenol A Diglycidyl Ether	4-15	Proprietary
Epoxy Phenol Novolac	4-15	28064-14-4
Reactive diluent	2-10	Proprietary
Bisphenol A Digylcidyl Ether	4-15	25085-99-8
Epicholorhydrin-Trimethanol Propane copolymer	10-25	30499-70-8
Crystalline silica (quartz)	20-45	14808-60-7
Titanium Dioxide	0.5-2	13463-67-7
Aluminum Silicate	0.5-4	1332-58-7

The exact percentage (concentration) in the composition has been withheld as a trade secret.

Occupational exposure limits, if available are listed in section 8.

### **Section 4. First Aid Measures**

**Description of necessary first aid** 

measures.
Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20

minutes. Get medical attention if symptoms occur.

**Inhalation** Remove victim to fresh air and keep at rest position comfortable for breathing. If

breathing is difficult, immediately get medical assistance.

**Skin contact** Immediately remove contaminated clothing. Rinse skin with water or shower. Wash with

plenty of soap and water. Wash clothing before reuse. If skin irritation or rash occurs: Get

medical attention.

Immediately call a POISON CENTER or physician. Rinse mouth. DO NOT induce

vomiting. Never give anything by mouth to an unconscious person.

### **Section 4. First Aid Measures**

Most important symptoms/effects, acute and delayed

**Eve contact** May cause irritation.

Inhalation High airborne concentrations of vapors resulting from heating, misting, and spraying

may cause irritation of the respiratory tract and mucous membranes.

**Skin contact** May cause allergic skin reaction. Causes skin irritation.

**Ingestion** May cause irritation of the digestive tract.

Over-exposure signs/symptoms

**Eve contact** May cause irritation.

Inhalation May cause irritation or cancer

**Skin contact** Prolonged and repeated contact may cause skin irritation and dermatitis.

**Ingestion** No known significant effects or critical hazards

Indication of immediate medical attention and special treatment needed, if necessary.

**Notes to physician:** Treat symptomatically. **Specific treatments** No specific treatment

**Protection of first aiders** No action shall be taken involving any personal risk or without suitable training.

### **Section 5. Fire-Fighting Measures**

**Extinguishing media** 

Suitable extinguishing media Use water spray, ABC type dry chemical extinguishers, foam or carbon dioxide. Water and

foam may cause frothing.

**Unsuitable extinguishing media** 

Specific hazards arising from the

chemical

**Hazardous thermal decomposition** 

products

Aldehydes

Decomposition products may include the following materials: Carbon Dioxide

Carbon Monoxide

None known.

Various hydrocarbons

Phenols

Special protective equipment Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full-face piece operated in a positive pressure mode.

Special protective actions for fire

fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident is there is a fire. No action shall be taken involving any personal risks or without suitable training.

Product will burn if ignited. Closed containers may rupture when exposed to extreme heat.

### Section 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures.

No action shall be taken involving any personal risk or without suitable training. Keep For non emergency personal

> unnecessary and unprotected personnel from entering. Do not touch or walk thru spilled material. Shut off all ignition sources. No smoking, flares or flames in hazard area. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

appropriate personal protective equipment.

For emergency responders If specialized clothing is required to deal with the spillage, take note of any information in

Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel."

### **Section 6. Accidental Release Measures**

#### **Environmental precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### Methods and materials for containment and cleaning up

**Spills** 

Wear proper personal protective clothing and equipment. Approach release from upwind direction. If spilled in an enclosed area, ventilate and eliminate ignition sources. Contain spill by diking with sand, earth or other non-combustible material. Absorb spill with an inert material. Place into a labeled, closed container. Store in a safe location to await disposal.

# **Section 7. Handling and Storage**

#### **Precautions for safe handling**

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid inhalation of aerosol, mist, vapor, spray, fume or vapor. Avoid release to the environment. Do not cut, weld on or near the container. Use under well-ventilated conditions.

# Advice on general occupational

hygiene

Eating, drinking and smoking should be prohibited in areas where material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Wash contaminated clothing before reuse. Discard shoes contaminated with this product. See section 8 for additional information on hygiene measures.

### Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry cool and well-ventilated area away from incompatible materials (see section 10) and food and drink. Keep away from heat, sparks and open flames. Keep container tightly closed and sealed until ready to use. Do not store in unlabeled containers. Empty containers contain residual product which may exhibit hazards of the product. Do not reuse empty containers.

# **Section 8. Exposure Controls/Personal Protection**

### Occupational exposure limits

Ingredient name	Exposure limits
Crystalline Silica, quartz (inpurity)	NIOSH REL (United States, 2016)
	Ca TWA: 0.05 mg/m <sup>3</sup>
Titanium Dioxide	OSHA PEL (United States, 2016)
	TWA: 15 mg/m <sup>3</sup>
Aluminum Silicate	NIOSH REL (United States, 2016)
	TWA: 10 mg/m <sup>3</sup> (total), 5 mg/m <sup>3</sup> (resp.)
	OSHA PEL ( United States, 2016)
	TWA: 15 mg/m <sup>3</sup> (total), 5 mg/m <sup>3</sup> (resp.)

# **Section 8. Exposure Controls/Personal Protection**

**Appropriate engineering controls** If user operations generates dust, fumes, gas, vapor or mist, use process enclosures, or

local exhaust ventilation or other engineering controls to keep worker exposure to

airborne contaminants below any recommended or statutory level.

**Environmental exposure controls** Emissions from ventilation or work process equipment should be checked to ensure they

comply with the requirements of environmental protection legislation.

**Hygiene measure** Wash hands, forearms and face thoroughly after handling chemical products, before

eating, smoking, and using the lavatory and at the end of the working period. Ensure that

eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** Safety eyewear complying with an approved standard should be used when risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases

and dusts.

**Skin Protection** 

**Hand protection** Chemical- resistant, imprevious gloves complying with an approved standard should be

worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

**Body protection** Personal protective equipment for the body should be selected based on the task being

preformed and the risks involved and should be approved by a specialist before handling

this product.

Other skin protection Appropriate footwear and any additional skin protection measures should be selected

based on the task being preformed and the risks involved and should be approved by a

specialist before handling this product.

**Respiratory protection**Based on the hazard and potential for exposure, select a respirator that meets the

appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and Chemical Properties

**Appearance** 

Physical state Viscous Liquid – paste like

**Color** White

OdorSlight AromaticOdor thresholdNot availablepHNot applicableMelting pointNot applicableBoiling point< 392 °F</th>Flash PointNot determined

Flash Point

Evaporation rate

Flammability (solid, gas)

Lower & upper explosive

Not determined

Not determined

Not determined

 $({\bf flammable})\ {\bf limits}$ 

**Vapor density Vapor pressure**Heavier than air

< 1 mm Hg @ 20 °C

Relative density 1.17

Solubility in water
Partition coefficient: n- octanol/water
Auto- ignition temperature
Decomposition temperature
Viscosity

Negligible
Not available
Not determined
Not determined
280,000 to 360,000 cps

**VOC** 0 g/l

### Section 10. Stability and Reactivity

Reactivity Exothermic reactions including polymerization may occur in contact

with amines, strong acids, strong bases, alcohols, strong oxidizing

agents and excessive heat.

Chemical stability Exposure to excessive heat and ignition sources will cause product to

auto-polymerize at very high temperatures.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reaction will not

occur.

**Conditions to avoid:** Excessive heat, sources of ignition.

**Incompatible materials** Reactive or incompatible with the following materials: Strong acids,

bases, and oxidizing agents.

**Hazardous decomposition products**Thermal decomposition may produce smoke, carbon dioxide, carbon

monoxide, aldehydes and other products of incomplete combustion.

# **Section 11. Toxicological Information**

# Information on toxicological effects Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Epoxy Phenol Novolac	LD50 Dermal	Rat	> 2000 mg/kg	-
	LD50 Oral	Rat	> 2000 mg/kg	-
Bisphenol A Digylcidyl Ether	LD50 Oral	Rat	17100 mg/kg	-
Crystalline Silica, quartz	LD50 Oral	Rat Mouse	500 mg/kg	-

### **Irritation/Corrosion**

Product/ingredient name	Result	<b>Species</b>	Score	Exposure	Observation
Titanium dioxide	Skin- Mild irritant	Human	-	72 hours 300 μg	-
				intermittent	
Bisphenol A Digylcidyl Ether	Skin- Moderate irritant	Rabbit	-	24 hours 500 μl	-

SensitizationThere is no data availableMutagenicityThere is no data availableCarcinogenicityClassification

Product/ingredient name	OSHA	IARC	NTP
Titanium dioxide		2B	
Crystalline Silica, quartz		1	Known Human Carcinogen

Reproductive toxicityThere is no data availableTeratogenicityThere is no data availableSpecific target organ toxicity (single exposure)There is no data availableSpecific target organ toxicity (repeated exposure)There is no data availableAspiration hazardThere is no data available

**Information on the likely routes of exposure**Routes of entry anticipated: dermal contact, inhalation.

# **Section 11. Toxicological Information**

**Potential acute health effects** 

**Eye contact** Eye irritation

**Inhalation** May cause irritation of the respiratory tract and mucous membranes.

Skin contact Skin irritation. May cause allergic skin reaction.

**Ingestion** Cause irritation. **Symptoms related to the physical, chemical and toxicological characteristics** 

Eye contactNo known significant effects or critical hazardsInhalationNo known significant effects or critical hazardsSkin contactNo known significant effects or critical hazardsIngestionNo known significant effects or critical hazards

Delayed and immediate effects and chronic effects from short- and long-term exposure

**Short term exposure** 

Potential immediate effects

No known significant effects or critical hazards

Potential delayed effects

No known significant effects or critical hazards

Long term exposure

Potential immediate effects

No known significant effects or critical hazards

Potential delayed effects

No known significant effects or critical hazards

**Potential chronic health effects** 

GeneralNo known significant effects or critical hazardsCarcinogenicityNo known significant effects or critical hazardsMutagenicityNo known significant effects or critical hazardsTeratogenicityNo known significant effects or critical hazardsDevelopmental effectsNo known significant effects or critical hazardsFertility effectsNo known significant effects or critical hazards

**Numerical measures of toxicity** 

Acute toxicity estimates There is no data available

# **Section 12. Ecological Information**

ToxicityThere is no data availablePersistence and degradabilityNot readily biodegradableBioaccumulative potentialThere is no data available

**Mobility in soil** 

**Soil/water partition coefficient (Koc)** There is no data available.

Other adverse effects No known significant effects or critical hazards

# **Section 13. Disposal Considerations**

#### **Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

# **Section 14. Transportation Information**

**AERG:** 171

**Regulatory Information:** 

	DOT	TDG	IMDG	IATA
UN Number	UN 3082	UN3082	UN3082	UN3082
Proper Shipping name	Environmentally Hazardous Substance, liquid, N.O.S (oxairane,2,2'-[1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis -homopolyer). Marine pollutant (Phenol,polymer with formaldehyde, glycidyl ether, Oxirane,2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis -homopolymer)	Environmentally Hazardous Substance, liquid, N.O.S (oxairane,2,2'-[1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bishomopolyer). Marine pollutant (Phenol,polymer with formaldehyde, glycidyl ether, Oxirane,2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bishomopolymer)	Environmentally Hazardous Substance, liquid, N.O.S (oxairane,2,2'-[1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bishomopolyer). Marine pollutant (Phenol,polymer with formaldehyde, glycidyl ether, Oxirane,2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bishomopolymer)	Environmentally Hazardous Substance, liquid, N.O.S (oxairane,2,2'-[1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bishomopolyer).
Transport hazard class(es)	Class 9	Class 9	Class 9	Class 9
Packing group	III	III	III	III
Environmental Hazards	Yes	Yes	Yes	Yes
Additional Information	Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg	This product is not regulated as a dangerous good when transported by road or rail.	The marine pollutant mark is not required when transported on inland waterways in sizes of $\leq 5$ L or $\leq 5$ kg	The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5$ L or $\leq 5$ kg

# **Section 15. Regulatory Information**

**U.S. Federal regulations:** TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8 b): all components are listed or exempted

**Composition/information on ingredients** 

**SARA 304 RQ** Not applicable **SARA 311/312** Not applicable **SARA 313** Not applicable

**State regulations** California Prop.65



WARNING: This product can expose you to chemicals including Crystalline Silica and Titanium Dioxide, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov.

## 16. Other Information

Date of revision 2-1-2021
Date of previous issue 4-6-2020

Revisions Correct UN shipping number listed under IATA & IMDG

Version 3

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