# Safety Data Sheet

# **Section 1. Identification**

**GHS** product Identifier Polyguard NHT-5600 Epoxy -Part B

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)

## 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

Skin Irritation- Category 2 Skin Sensitizer- Category 1

Aquatic Hazard (Long-term)- Category 2

**GHS** label elements **Hazard Pictogram** 







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

Signal word DANGER

**Hazard statement** H302 - Harmful if swallowed

H312 - Harmful in contact with skin.

H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H362 - May cause harm to breast-fed children.

H360 - May damage the unborn child. Suspected of damaging fertility.

H314- Causes severe skin burns and eye damage.

H400- Very toxic to aquatic life.

**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.

P263 – Avoid contact during pregnancy/ while nursing. 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.

# **Response**

### **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	0/0	CAS#
1-(2-Aminoethyl)piperazine	15-35	140-31-8
1,3 Bis(aminomethyl) benzene	10-20	1477-55-0
Triethylenetetramine	5-10	122-24-3
o-cresyl glycidyl ether	10-20	2210-79-9
Pigment Blue 29	10-25	57455-37-5
Benzyl alcohol	1-2	100-51-6
4-Nonyl Phenol	5-10	84852-15-3
Pyrogenic silica	0.5-4	7631-86-9
Tris(dimethylaminomethyl) phenol	3-8	90-72-2
Bisphenol A	10-20	80-50-7

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**

<u>Description of necessary first aid</u> 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** 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

**Eye contact** Irritation.

Inhalation May cause irritation

**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

Decomposition products may include the following materials: Carbon Dioxide

Carbon Monoxide

Aldehydes

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.

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

> 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.

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

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
1,3-Bis(aminomethyl) benzene	NIOSH REL (United States, 2016)
	C: $0.01 \text{ mg/m}^3 \text{ (skin)}$
Pyrogenic silica	OSHA PEL (United States, 2016)
	TWA: 80 mg/m <sup>3</sup> / % SiO <sub>2</sub>
	NIOSH REL ( United States, 2016)
	TWA: 6 mg/m <sup>3</sup>

# **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 **Color** Dark Blue **Odor** Amine like **Odor threshold** Not available Not applicable pH Not applicable **Melting point Boiling point** Not applicable **Flash Point** Not determined **Evaporation rate** Not applicable Flammability (solid, gas) Not determined Lower & upper explosive Not determined

(flammable) limits

Vapor densityHeavier than airVapor pressureNot determined

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

1.18
Negligible
Not available
Not determined
Not determined
80,000 to 100,000 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
1,3-Bis(aminomethyl) benzene	LD50 Oral	Rat	930 mg/kg	-
_	LC50 Inhalation	Rat	700 ppm	1 hour
	LD50 Skin	Rabbit	2 gm/kg	-
Pyrogenic silica	LD50 Oral	Rat	3160 mg/kg	-

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
1,3-Bis(aminomethyl) benzene	Skin- Severe	Rabbit	-	24 hours 750 μg	-
	Eye-Severe	Rabbit	-	24 hours 50 μg	

Sensitization
Mutagenicity
Carcinogenicity
Classification

There is no data available There is no data available

Product/ingredient name	OSHA	IARC	NTP
Pyrogenic silica		Group 3	

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 hazards

Fertility effects May cause damage to unborn child.

**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:** 153

**Regulatory Information:** 

	DOT	TDG	IMDG	IATA
UN Number	UN 2735	UN 2735	UN 2735	UN 2735
Proper Shipping name	Amines, liquid, corrosive, N.O.S (benzyldimethylamine, N- aminoethylpiperazine) Marine pollutant (4- Nonylphenol, branched, Bisphenol A)	Amines, liquid, corrosive, N.O.S (benzyldimethylamine, N-aminoethylpiperazine) Marine pollutant (4- Nonylphenol, branched, Bisphenol A)	Amines, liquid, corrosive, N.O.S (benzyldimethylamine, N-aminoethylpiperazine) Marine pollutant (4- Nonylphenol, branched, Bisphenol A)	Amines, liquid, corrosive, N.O.S (benzyldimethylamine, N- aminoethylpiperazine)
Transport hazard	Class 8	Class 8	Class 8	Class 8
class(es)				
Packing group	III	III	III	III
Environmental	Yes	Yes	Yes	Yes
Hazards				
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		The marine pollutant mark is not required when transported on inland waterways 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** 

PennsylvaniaThe following chemical is listed: AminoethylpiperazineMassachusettsThe following chemical is listed: AminoethylpiperazineNew JerseyThe following chemical is listed: Aminoethylpiperazine

### California Prop.65

**WARNING:** This product can expose you to chemicals including Bisphenol A which is known to the State of California to cause birth defects or other reproductive harm. For more information, visit <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>.

### 16. Other Information

Date of revision 4-6-2020 Date of previous issue 11-2-2015

**Revisions** Update to reflect formulation change

Version 3

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