

# SAFETY DATA SHEET

according to the Globally Harmonized System and US regulation

## THIOPLAST EPS 25

Version 2

Revision Date 11/26/2017

Print Date 08/18/2022

US / Z8

### 1. IDENTIFICATION

Product name : THIOPLAST EPS 25

Product Use Description : Specific use(s): Basic polymer and reactive thinner for coatings, adhesives and sealants

Company : Nouryon Pulp and Performance  
Chemicals LLC  
100 Matsonford Road, Building 1, Suite 500  
Radnor PA 19087  
US

Telephone : +17705780858

Fax : +17705781359

E-mail address : psra.ppc@nouryon.com

Emergency telephone : US CHEMTREC +1-800-424-9300 Internat'l +1-703-741-5971  
(collect calls accepted) CANADA CANUTEC +1-613-996-6666

### 2. HAZARDS IDENTIFICATION



#### Emergency Overview

|            |                |
|------------|----------------|
| Appearance | liquid         |
| Color      | yellow, brown  |
| Odor       | characteristic |

#### GHS Classification

Skin irritation, Category 2  
Eye irritation, Category 2A  
Skin sensitization, Category 1  
Acute aquatic toxicity, Category 2  
Chronic aquatic toxicity, Category 2

#### GHS label elements

Hazard pictograms :  

Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.

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H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

## Precautionary Statements

### : **Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

### **Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

### **Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

## Carcinogenicity:

### IARC

: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### OSHA

: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

### NTP

: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Substance

### Hazardous ingredients

| Chemical name                                     | CAS-No.     | Classification   | Concentration [% W/W] |
|---|-------------|--|-----------------------|
| Liquid polysulphide polymer with epoxy end groups | 117527-71-6 | Skin Irrit. 2; H315<br>Eye Irrit. 2A; H319<br>Skin Sens. 1; H317<br>Aquatic Acute 2; H401<br>Aquatic Chronic 2; H411 | >= 90 - <= 100        |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this material safety data sheet to the doctor in attendance.
- Inhalation : If breathed in, move person into fresh air.  
Consult a physician after significant exposure.
- Skin contact : Take off contaminated clothing and shoes immediately.  
Wash the skin immediately with soap and water.  
Wash off with soap and plenty of water.  
If skin irritation persists, call a physician.
- Eye contact : Rinse with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
Obtain medical attention.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

### Notes to physician

- Symptoms : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.
- Risks : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.
- Treatment : Treat symptomatically.

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## 5. FIRE-FIGHTING MEASURES

- |  |   |
|--|---|
| Suitable extinguishing media   | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  |
| Unsuitable extinguishing media   | : Water spray jet   |
| Specific hazards during fire fighting / Specific hazards arising from the chemical | : Do not allow run-off from fire fighting to enter drains or water courses.   |
| Combustion products  | : Sulfur compounds  |
| Special protective equipment for fire-fighters                                     | : In the event of fire, wear self-contained breathing apparatus.  |
| Further information  | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |

See also Section 9. Physical and chemical properties: Safety data

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- |  |   |
|--|---|
| Personal precautions                                 | : Use personal protective equipment.<br>Wear respiratory protection.<br>Ensure adequate ventilation.  |
| Emergency measures on accidental release             | : Evacuate personnel to safe areas.<br>Only qualified personnel equipped with suitable protective equipment may intervene.<br>Prevent unauthorized persons entering the zone. |
| Environmental precautions                            | : Do not flush into surface water or sanitary sewer system.<br>If the product contaminates rivers and lakes or drains inform respective authorities.                          |
| Methods for cleaning up /<br>Methods for containment | : Soak up with inert absorbent material.<br>Keep in suitable, closed containers for disposal.<br>Suitable material for picking up:<br>Sand<br>Kieselguhr                      |
| Reference to other sections                          | : For disposal considerations see section 13.<br><br>For personal protection see section 8.   |

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## 7. HANDLING AND STORAGE

### Handling

- |                         |   |
|-------------------------|---|
| Advice on safe handling | : For personal protection see section 8.<br>Avoid formation of aerosol.<br>Do not breathe vapors or spray mist. |
|-------------------------|---|
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Avoid contact with skin, eyes and clothing.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.  
Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

## Storage

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.  
Keep away from food and drink.

Other data : No decomposition if stored and applied as directed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Contains no substances with occupational exposure limit values.

### Occupational exposure limits of decomposition products

| Decomposition products | CAS-No.                 | Value | Control parameters   | Update     | Basis     | Form of exposure |
|------------------------|-------------------------|-------|--|------------|-----------|------------------|
| Sulphur dioxide        | 7446-09-5,<br>7446-09-5 | STEL  | 0.25 ppm   | 2009-01-01 | ACGIH     |                  |
|                        | Further information     | :     | pulm func: Pulmonary function<br>LRT irr: Lower Respiratory Tract irritation<br>A4: Not classifiable as a human carcinogen |            |           |                  |
|                        |                         | TWA   | 2 ppm<br>5 mg/m3   | 2013-10-08 | NIOSH REL |                  |
|                        |                         | ST    | 5 ppm<br>13 mg/m3  | 2013-10-08 | NIOSH REL |                  |
|                        |                         | TWA   | 5 ppm<br>13 mg/m3  | 1997-08-04 | OSHA Z-1  |                  |
|                        | Further information     | :     | (b): The value in mg/m3 is approximate.  |            |           |                  |
|                        |                         | TWA   | 2 ppm<br>5 mg/m3   | 1989-01-19 | OSHA P0   |                  |
|                        |                         | STEL  | 5 ppm<br>13 mg/m3  | 1989-01-19 | OSHA P0   |                  |
|                        |                         | PEL   | 2 ppm<br>5 mg/m3   | 2014-11-26 | CAL PEL   |                  |
|                        |                         | STEL  | 5 ppm<br>10 mg/m3  | 2014-11-26 | CAL PEL   |                  |
| Hydrogen sulfide       | 7783-06-4,<br>7783-06-4 | TWA   | 1 ppm  | 2013-03-01 | ACGIH     |                  |
|                        | Further information     | :     | CNS impair: Central Nervous System impairment<br>URT irr: Upper Respiratory Tract irritation                               |            |           |                  |
|                        |                         | STEL  | 5 ppm  | 2013-03-01 | ACGIH     |                  |
|                        | Further information     | :     | CNS impair: Central Nervous System impairment<br>URT irr: Upper Respiratory Tract irritation                               |            |           |                  |
|                        |                         | C     | 10 ppm<br>15 mg/m3   | 2013-10-08 | NIOSH REL |                  |
|                        | Further                 | :     | 10 minute ceiling value  |            |           |                  |

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|              |                     |      |   |            |           |  |
|--------------|---------------------|------|---|------------|-----------|--|
|              | information         |      |   |            |           |  |
|              |                     | CEIL | 20 ppm  | 2012-07-01 | OSHA Z-2  |  |
|              | Further information | :    | Z37.2-1966  |            |           |  |
|              |                     | Peak | 50 ppm  | 2012-07-01 | OSHA Z-2  |  |
|              | Further information | :    | Z37.2-1966  |            |           |  |
|              |                     | TWA  | 10 ppm<br>14 mg/m3  | 1989-01-19 | OSHA P0   |  |
|              |                     | STEL | 15 ppm<br>21 mg/m3  | 1989-01-19 | OSHA P0   |  |
|              | Further information | :    | (2): See Table Z-2  |            |           |  |
|              |                     | STEL | 15 ppm<br>21 mg/m3  | 2014-11-26 | CAL PEL   |  |
|              |                     | C    | 50 ppm  | 2014-11-26 | CAL PEL   |  |
|              |                     | PEL  | 10 ppm<br>14 mg/m3  | 2014-11-26 | CAL PEL   |  |
| Formaldehyde | 50-00-0, 50-00-0    | C    | 0.3 ppm   | 2016-03-01 | ACGIH     |  |
|              | Further information | :    | DSEN: Dermal Sensitization<br>RSEN: Respiratory sensitization<br>URT irr: Upper Respiratory Tract irritation<br>eye irr: Eye irritation<br>(): Adopted values or notations enclosed are those for which changes are proposed in the NIC<br>See Notice of Intended Changes (NIC)<br>A2: Suspected human carcinogen |            |           |  |
|              |                     | TWA  | 0.016 ppm   | 2013-10-08 | NIOSH REL |  |
|              | Further information | :    | Ca: Potential Occupational Carcinogen<br>See Appendix A   |            |           |  |
|              |                     | C    | 0.1 ppm   | 2013-10-08 | NIOSH REL |  |
|              | Further information | :    | Ca: Potential Occupational Carcinogen<br>See Appendix A<br>15 minute ceiling value  |            |           |  |
|              | Further information | :    | Substance listed; for more information see OSHA document 1910.1048  |            |           |  |
|              | Further information | :    | Substance listed; for more information see OSHA document 1910.1048  |            |           |  |
|              | Further information | :    | See 1910.1048   |            |           |  |
|              |                     | PEL  | 0.75 ppm  | 2012-04-03 | OSHA CARC |  |
|              | Further information | :    | 1910.1048<br>This standard applies to all occupational exposures to formaldehyde, i.e. from formaldehyde gas, its solutions, and materials that release formaldehyde<br>OSHA specifically regulated carcinogen  |            |           |  |
|              |                     | STEL | 2 ppm   | 2012-04-03 | OSHA CARC |  |
|              | Further information | :    | 1910.1048<br>This standard applies to all occupational exposures to formaldehyde, i.e. from formaldehyde gas, its solutions, and materials that release formaldehyde<br>OSHA specifically regulated carcinogen  |            |           |  |
|              |                     | TWA  | 0.016 ppm   | 2013-10-08 | NIOSH REL |  |
|              | Further information | :    | Ca: Potential Occupational Carcinogen<br>Formalin is an aqueous solution that is 37% formaldehyde by weight; inhibited solutions usually contain 6-12% methyl alcohol. Also see specific listings for Formaldehyde and Methyl alcohol.<br>See Appendix A<br>Formaldehyde  |            |           |  |
|              |                     | C    | 0.1 ppm   | 2013-10-08 | NIOSH REL |  |

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|  |                     |      |   |            |         |  |
|--|---------------------|------|---|------------|---------|--|
|  | Further information | :    | Ca: Potential Occupational Carcinogen<br>Formalin is an aqueous solution that is 37% formaldehyde by weight; inhibited solutions usually contain 6-12% methyl alcohol. Also see specific listings for Formaldehyde and Methyl alcohol.<br>See Appendix A<br>15 minute ceiling value<br>Formaldehyde |            |         |  |
|  |                     | PEL  | 0.75 ppm  | 2014-11-26 | CAL PEL |  |
|  | Further information | :    | see Section 5217  |            |         |  |
|  |                     | STEL | 2 ppm   | 2014-11-26 | CAL PEL |  |
|  | Further information | :    | see Section 5217  |            |         |  |

## Appropriate engineering controls

Effective exhaust ventilation system

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

## Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Hand protection : Glove material: Neoprene

Skin and body protection : Protective suit

Respiratory protection : In the case of vapor or aerosol formation use a respirator with an approved filter.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.  
Wash contaminated clothing before re-use.

## Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : liquid

Color : yellow  
brown

Odor : characteristic

Odor Threshold : No data available

### Safety data

pH : 6.5 - 7.5

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|  |   |
|--|---|
| Melting point/range                    | : -60 °C                                  |
| Boiling point                          | : Not applicable                          |
| Flash point                            | : > 100 °C<br>Method: DIN 51758           |
| Evaporation rate                       | : No data available                       |
| Flammability (solid, gas)              | : Not applicable                          |
| Flammability (liquids)                 | : Not classified as a flammability hazard |
| Lower explosion limit                  | : No data available                       |
| Upper explosion limit                  | : No data available                       |
| Vapor pressure                         | : No data available                       |
| Relative vapor density                 | : No data available                       |
| Density                                | : 1,200 kg/m <sup>3</sup> at 20 °C        |
| Relative density                       | : ca. 1.20 at 20 °C                       |
| Water solubility                       | : insoluble                               |
| Solubility in other solvents           | : Soluble in:, Aromatic hydrocarbons      |
| Partition coefficient: n-octanol/water | : No data available                       |
| Autoignition temperature               | : No data available                       |
| Decomposition temperature              | : No data available                       |
| Viscosity, dynamic                     | : 2,000 - 3,000 mPa.s at 25 °C            |
| Viscosity, kinematic                   | : No data available                       |
| Flow time                              | : No data available                       |
| Explosive properties                   | : Not explosive                           |
| Oxidizing properties                   | : Not classified as oxidizing.            |

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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## 10. STABILITY AND REACTIVITY

|                                  |   |
|----------------------------------|---|
| Conditions to avoid              | : None known.   |
| Materials to avoid               | : Strong bases<br>Strong acids and oxidizing agents   |
| Hazardous decomposition products | : Sulphur dioxide<br>Hydrogen sulfide<br>Formaldehyde |

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|                       |   |
|-----------------------|---|
| Thermal decomposition | : No data available   |
| Reactivity            | : Stable under normal conditions.                             |
| Chemical stability    | : Stable under recommended storage conditions.                |
| Hazardous reactions   | : No dangerous reaction known under conditions of normal use. |

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## 11. TOXICOLOGICAL INFORMATION

### PRODUCT INFORMATION:

#### Hazard Summary

|                                   |   |
|-----------------------------------|---|
| Acute toxicity                    | : Not classified based on available information.  |
| Skin corrosion/irritation         | : Causes skin irritation.   |
| Serious eye damage/eye irritation | : Causes serious eye irritation.  |
| Respiratory or skin sensitization | : Respiratory sensitization: Not classified based on available information.<br>Skin sensitization: May cause an allergic skin reaction. |
| Germ cell mutagenicity            | : Not classified based on available information.  |
| Carcinogenicity                   | : Not classified based on available information.  |
| Reproductive toxicity             | : Not classified based on available information.  |
| STOT-single exposure              | : Not classified based on available information.  |
| STOT-repeated exposure            | : Not classified based on available information.  |
| Aspiration hazard                 | : Not classified based on available information.  |

#### Potential Health Effects

|                              |   |
|------------------------------|---|
| Inhalation                   | : Inhalation of aerosols may cause irritation to mucous membranes.<br>Thermal decomposition can lead to release of irritating gases and vapors. |
| Skin                         | : May be harmful in contact with skin.<br>Causes skin irritation.<br>May cause an allergic skin reaction.                                       |
| Eyes                         | : Causes serious eye irritation.  |
| Ingestion                    | : May cause irritation of the mucous membranes.   |
| Aggravated Medical Condition | : None known.   |
| Symptoms of Overexposure     | : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.              |

**Toxicology Assessment**

Further information : No further data available.

**Carcinogenicity:****IARC**

: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**TOXICOLOGY DATA FOR THE INGREDIENTS:****Test result****Component: Liquid polysulphide polymer with epoxy end groups**

Acute oral toxicity : LD50: > 5,000 mg/kg  
Species: Rat

Acute dermal toxicity : LD50: > 2,000 mg/kg  
Species: Rabbit

Skin irritation : Result: Irritating to skin.

Eye irritation : Result: Eye irritation

Sensitization : Result: May cause sensitization by skin contact.

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**12. ECOLOGICAL INFORMATION****PRODUCT INFORMATION:****Ecotoxicology Assessment**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

**Test result****Elimination information (persistence and degradability)**

Bioaccumulation : Bioaccumulation is unlikely.

Mobility : No data available

Biodegradability : Result: Not readily biodegradable.

**Further information on ecology**

Biochemical Oxygen Demand (BOD) : No data available

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## Hazardous to the ozone layer

- Regulation : 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
- Remarks : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

## INGREDIENTS:

### Ecotoxicology Assessment

#### Component: Liquid polysulphide polymer with epoxy end groups

- Acute aquatic toxicity : Toxic to aquatic life.
- Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

## Test result

#### Component: Liquid polysulphide polymer with epoxy end groups

### Ecotoxicity effects

- Toxicity to fish : LC50: > 100 mg/l  
Exposure time: 96 h  
Species: Pimephales promelas (fathead minnow)  
Read-across (Analogy)
- Toxicity to daphnia and other aquatic invertebrates : EC50: > 1 - 10 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Read-across (Analogy)

### Elimination information (persistence and degradability)

- Bioaccumulation : Bioaccumulation is unlikely.
- Mobility : No data available
- Biodegradability : Result: Not readily biodegradable.

### Further information on ecology

- Biochemical Oxygen Demand (BOD) : No data available

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## 13. DISPOSAL CONSIDERATIONS

- Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Hazardous waste  
Dispose of contents/container in accordance with local

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regulation.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Offer rinsed packaging material to local recycling facilities.

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## 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Liquid polysulphide polymer with epoxy end groups)  
Class : 9  
Packing group : III  
Labels : 9  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Environmentally hazardous : yes

#### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Liquid polysulphide polymer with epoxy end groups)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes  
(Liquid polysulphide polymer with epoxy end groups)

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

UN/ID/NA number : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Liquid polysulphide polymer with epoxy end groups)  
Class : 9  
Packing group : III  
Labels : 9  
ERG Code : 171  
Marine pollutant : yes  
(Liquid polysulphide polymer with epoxy end groups)  
Reportable Quantity : This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix A.

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## 15. REGULATORY INFORMATION

### Notification status

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|       |  |
|-------|--|
| DSL   | : NO. This product contains one or several components that are not on the Canadian DSL nor NDSL.   |
| AICS  | : NO. Not in compliance with the inventory   |
| NZIoC | : NO. Not in compliance with the inventory   |
| ENCS  | : NO. Not in compliance with the inventory   |
| ISHL  | : NO. Not in compliance with the inventory   |
| KECI  | : NO. Not in compliance with the inventory   |
| PICCS | : NO. Not in compliance with the inventory   |
| IECSC | : YES. On the inventory, or in compliance with the inventory   |
| TCSI  | : YES. On the inventory, or in compliance with the inventory   |
| TSCA  | : YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption. |

For explanation of abbreviations, see section 16.

## TSCA list

|              |   |
|--------------|---|
| TSCA 5(a)(2) | : No substances are subject to a Significant New Use Rule.                  |
| TSCA 12(b)   | : No substances are subject to TSCA 12(b) export notification requirements. |

## EPCRA - Emergency Planning and Community Right-to-Know

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

|                             |   |
|-----------------------------|---|
| <b>SARA 311/312 Hazards</b> | : Skin corrosion or irritation<br>Serious eye damage or eye irritation<br>Respiratory or skin sensitization |
|-----------------------------|---|

|                 |   |
|-----------------|---|
| <b>SARA 302</b> | : This material does not contain any components with a section 302 EHS TPQ. |
|-----------------|---|

|                 |   |
|-----------------|---|
| <b>SARA 313</b> | : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. |
|-----------------|---|

## Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

## Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

## US State Regulations

### Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

## Pennsylvania Right To Know

Liquid polysulphide polymer with epoxy end groups

117527-71-6

## California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

## 16. OTHER INFORMATION

### Full text of H-Statements

|      |  |
|------|--|
| H315 | : Causes skin irritation.                          |
| H317 | : May cause an allergic skin reaction.             |
| H319 | : Causes serious eye irritation.                   |
| H401 | : Toxic to aquatic life.                           |
| H411 | : Toxic to aquatic life with long lasting effects. |

### Full text of other abbreviations

|                  |   |
|------------------|---|
| ACGIH            | : USA. ACGIH Threshold Limit Values (TLV)   |
| CAL PEL          | : California permissible exposure limits for chemical contaminants (Title 8, Article 107)   |
| NIOSH REL        | : USA. NIOSH Recommended Exposure Limits  |
| OSHA CARC        | : OSHA Specifically Regulated Chemicals/Carcinogens   |
| OSHA P0          | : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000                             |
| OSHA Z-1         | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants          |
| OSHA Z-2         | : USA. Occupational Exposure Limits (OSHA) - Table Z-2                                      |
| ACGIH / TWA      | : 8-hour, time-weighted average   |
| ACGIH / STEL     | : Short-term exposure limit   |
| ACGIH / C        | : Ceiling limit   |
| CAL PEL / STEL   | : Short term exposure limit   |
| CAL PEL / PEL    | : Permissible exposure limit  |
| CAL PEL / C      | : Ceiling   |
| NIOSH REL / TWA  | : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| NIOSH REL / ST   | : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday    |
| NIOSH REL / C    | : Ceiling value not be exceeded at any time.  |
| OSHA CARC / PEL  | : Permissible exposure limit (PEL)  |
| OSHA CARC / STEL | : Excursion limit   |
| OSHA P0 / TWA    | : 8-hour time weighted average  |
| OSHA P0 / STEL   | : Short-term exposure limit   |
| OSHA Z-1 / TWA   | : 8-hour time weighted average  |
| OSHA Z-2 / CEIL  | : Acceptable ceiling concentration  |
| OSHA Z-2 / Peak  | : Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift      |

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AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

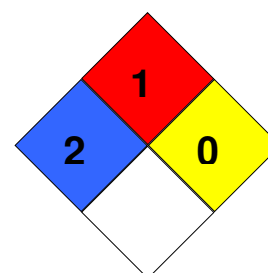
## Further information

### HMIS Classification

: Health Hazard: 2  
Chronic Health Hazard: /  
Flammability: 1  
Physical hazards: 0

### NFPA Classification

: Health Hazard: 2  
Fire Hazard: 1  
Reactivity Hazard: 0



## Notification status explanation

|       |  |
|-------|--|
| REACH | 1907/2006 (EU)   |
| DSL   | Canadian Domestic Substances List (DSL)                      |
| AICS  | Australia Inventory of Chemical Substances (AICS)            |
| NZIoC | New Zealand. Inventory of Chemical Substances                |
| ENCS  | Japan. ENCS - Existing and New Chemical Substances Inventory |
| ISHL  | Japan. ISHL - Inventory of Chemical Substances               |
| KECI  | Korea. Korean Existing Chemicals Inventory (KECI)            |
| PICCS | Philippines Inventory of Chemicals and Chemical Substances   |

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|       |   |
|-------|---|
|       | (PICCS)   |
| IECSC | China. Inventory of Existing Chemical Substances in China (IECSC) |
| TCSI  | Taiwan Chemical Substance Inventory (TCSI)                        |
| TSCA  | United States TSCA Inventory                                      |

## Further information

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The information in this material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the context of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

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