



## SAFETY DATA SHEET THIOFLEX 600 GUN GRADE GREY

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name** THIOFLEX 600 GUN GRADE GREY

**Product number** 2486320 UK9

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Three-part polysulphide sealant system

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** Fosroc Limited  
 Drayton Manor Business Park  
 Coleshill Road  
 Tamworth  
 Staffordshire  
 B78 3XN  
 England  
 Tel: +44 (0) 1827 262222  
 Fax: +44 (0) 1827 262444  
 enquiryuk@fosroc.com

#### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 1827 265 279 (Monday-Sunday 24 hours a day)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified

**Health hazards** Lact. - H362

**Environmental hazards** Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

#### 2.2. Label elements

##### Hazard pictograms



**Signal word** Warning

**Hazard statements** EUH208 Contains EPICHLOROHYDRIN, POLYMER W/BISPHENOL A, thiram (ISO). May produce an allergic reaction.  
 H362 May cause harm to breast-fed children.  
 H410 Very toxic to aquatic life with long lasting effects.

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<b>Precautionary statements</b>	<p>P260 Do not breathe vapour/ spray.</p> <p>P263 Avoid contact during pregnancy and while nursing.</p> <p>P273 Avoid release to the environment.</p> <p>P391 Collect spillage.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p>
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**Contains** CHLORINATED PARAFFIN (C14-17)

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>TREATED CALCIUM CARBONATE</b>	<b>30-60%</b>
CAS number: 471-34-1	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Not Classified	Xi;R36/37/38.
<b>CHLORINATED PARAFFIN (C14-17)</b>	<b>10-30%</b>
CAS number: 85535-85-9                      EC number: 287-477-0                      REACH registration number: 01-2119519269-33-xxxx	
M factor (Acute) = 1                      M factor (Chronic) = 100	
<b>Classification</b>	
Lact. - H362	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
<b>ALIPHATIC POLYSULPHIDE POLYMER</b>	<b>10-30%</b>
CAS number: 68611-50-7	
<b>Classification</b>	
Aquatic Chronic 3 - H412	
<b>TITANIUM DIOXIDE</b>	<b>1-5%</b>
CAS number: 13463-67-7                      EC number: 236-675-5                      REACH registration number: 01-2119489379-17-0000	
<b>Classification</b>	
Not Classified	

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<b>MANGANESE DIOXIDE</b>	<b>1-5%</b>
CAS number: 1313-13-9	EC number: 215-202-6
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H332 STOT RE 2 - H373	
<b>EPICHLOROHYDRIN, POLYMER W/BISPHENOL A</b>	<b>&lt;1%</b>
CAS number: 25036-25-3	EC number: 682-390-8
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317	
<b>thiram (ISO)</b>	<b>&lt;1%</b>
CAS number: 137-26-8	EC number: 205-286-2
M factor (Acute) = 10	M factor (Chronic) = 10
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if symptoms are severe or persist.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
<b>Eye contact</b>	Remove affected person from source of contamination. Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes and get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Upper respiratory irritation.
<b>Ingestion</b>	Diarrhoea. Nausea, vomiting.

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<b>Skin contact</b>	Skin irritation. May cause an allergic skin reaction.
<b>Eye contact</b>	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

### **4.3. Indication of any immediate medical attention and special treatment needed**

<b>Notes for the doctor</b>	Treat symptomatically.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

### **5.2. Special hazards arising from the substance or mixture**

<b>Hazardous combustion products</b>	When heated, vapours/gases hazardous to health may be formed. Heating may generate the following products: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Hydrogen chloride (HCl). Hydrogen sulphide (H <sub>2</sub> S). Sulphur dioxide. Formaldehyde
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### **5.3. Advice for firefighters**

<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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## **SECTION 6: Accidental release measures**

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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Use suitable respiratory protection if ventilation is inadequate.
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### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Prevent entry into drains, sewers and water courses.
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### **6.3. Methods and material for containment and cleaning up**

<b>Methods for cleaning up</b>	Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.
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### **6.4. Reference to other sections**

<b>Reference to other sections</b>	For personal protection, see Section 8.
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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

<b>Usage precautions</b>	For professional users only. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.
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### **7.2. Conditions for safe storage, including any incompatibilities**

<b>Storage precautions</b>	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.
<b>Storage class</b>	Chemical storage.

### **7.3. Specific end use(s)**

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.
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## THIOFLEX 600 GUN GRADE GREY

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### **TITANIUM DIOXIDE**

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

##### **MANGANESE DIOXIDE**

Long-term exposure limit (8-hour TWA): WEL 0.05 mg/m<sup>3</sup> respirable dust

Long-term exposure limit (8-hour TWA): 0.2 mg/m<sup>3</sup> inhalable dust  
as Mn

##### **thiram (ISO)**

Long-term exposure limit (8-hour TWA): 5 mg/m<sup>3</sup> respirable dust

Short-term exposure limit (15-minute): 10 mg/m<sup>3</sup> respirable dust

WEL = Workplace Exposure Limit

#### CHLORINATED PARAFFIN (C14-17) (CAS: 85535-85-9)

##### **DNEL**

Industry - Inhalation; Long term systemic effects: 1.6 mg/m<sup>3</sup>  
Industry - Dermal; Long term systemic effects: 47.9 mg/kg/day  
Consumer - Oral; Long term systemic effects: 0.58 mg/kg/day  
Consumer - Inhalation; Long term systemic effects: 2 mg/m<sup>3</sup>  
Consumer - Dermal; Long term systemic effects: 28.75 mg/kg/day

##### **PNEC**

- Fresh water; 1000 mg/l  
- marine water; 200 mg/l  
- STP; 80 mg/l

#### TITANIUM DIOXIDE (CAS: 13463-67-7)

##### **DNEL**

Industry - Inhalation; Long term : 10 mg/m<sup>3</sup>  
Consumer - Oral; Long term : 700 mg/kg/day

##### **PNEC**

- Fresh water; >1 mg/l  
- marine water; 0.127 mg/l  
- Soil; 100 mg/kg  
- STP; 100 mg/kg

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

##### Eye/face protection

The following protection should be worn: Chemical splash goggles.

##### Hand protection

Use protective gloves. It is recommended that gloves are made of the following material: Neoprene.

##### Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear apron or protective clothing in case of contact.

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<b>Hygiene measures</b>	Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Paste.
<b>Colour</b>	Grey.
<b>Odour</b>	Mercaptan
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not determined.
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	Not determined.
<b>Flash point</b>	>100°C
<b>Evaporation rate</b>	Not determined.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Vapour pressure</b>	Not determined.
<b>Relative density</b>	1.65 @ 25°C
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

#### 9.2. Other information

<b>Other information</b>	No data available.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	Stable at normal ambient temperatures and when used as recommended.
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#### 10.2. Chemical stability

<b>Stability</b>	Hazardous polymerisation will not occur.
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#### 10.3. Possibility of hazardous reactions

## THIOFLEX 600 GUN GRADE GREY

**Possibility of hazardous reactions** No potentially hazardous reactions known.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** When heated, vapours/gases hazardous to health may be formed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**ATE oral (mg/kg)** 31,294.73

#### Acute toxicity - inhalation

**ATE inhalation (dusts/mists mg/l)** 95.14

**Inhalation** Harmful by inhalation. May cause respiratory system irritation.

**Ingestion** Harmful if swallowed. May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting. Diarrhoea.

**Skin contact** Irritating to skin.

**Eye contact** Irritating to eyes.

**Route of exposure** Ingestion. Inhalation

### Toxicological information on ingredients.

#### CHLORINATED PARAFFIN (C14-17)

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >5000 mg/kg, Oral, Rat

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >4890 mg/kg, Dermal, Rat

**Acute and chronic health hazards** May cause harm to breast-fed children.

#### ALIPHATIC POLYSULPHIDE POLYMER

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >3000 mg/kg, Oral, Rat

#### MANGANESE DIOXIDE

##### Acute toxicity - oral

**ATE oral (mg/kg)** 500.0

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### Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 1.5

### thiram (ISO)

### Acute toxicity - oral

ATE oral (mg/kg) 500.0

### Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 1.5

### Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

## SECTION 12: Ecological information

**Ecotoxicity** The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### 12.1. Toxicity

**Toxicity** Very toxic to aquatic organisms.

### Ecological information on ingredients.

#### CHLORINATED PARAFFIN (C14-17)

### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.1 < L(E)C<sub>50</sub> ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC<sub>50</sub>, 96 hours: >5000 mg/l, Fish

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 0.006 mg/l, Daphnia magna

### Chronic aquatic toxicity

M factor (Chronic) 100

### thiram (ISO)

### Acute aquatic toxicity

M factor (Acute) 10

### Chronic aquatic toxicity

M factor (Chronic) 10

### 12.2. Persistence and degradability

**Persistence and degradability** The product is not expected to be biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

### Ecological information on ingredients.



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### CHLORINATED PARAFFIN (C14-17)

**Bioaccumulative potential** BCF: < 2000 L/kg,

#### 12.4. Mobility in soil

**Mobility** The product is insoluble in water.

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

#### Ecological information on ingredients.

### CHLORINATED PARAFFIN (C14-17)

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### MANGANESE DIOXIDE

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### 12.6. Other adverse effects

**Other adverse effects** None known.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**General information** Waste is classified as hazardous waste.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### **SECTION 14: Transport information**

#### 14.1. UN number

**UN No. (ADR/RID)** 3082

**UN No. (IMDG)** 3082

**UN No. (ICAO)** 3082

**UN No. (ADN)** 3082

#### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORINATED PARAFFIN (C14-17), THIRAM)

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORINATED PARAFFIN (C14-17), THIRAM)

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORINATED PARAFFIN (C14-17), THIRAM)

**Proper shipping name (ADN)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORINATED PARAFFIN (C14-17), THIRAM)

#### 14.3. Transport hazard class(es)

## THIOFLEX 600 GUN GRADE GREY

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

### Transport labels



### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(-)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
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## THIOFLEX 600 GUN GRADE GREY

<b>EU legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
<b>Guidance</b>	Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>General information</b>	For professional users only.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	20/02/2020
<b>Revision</b>	7
<b>Supersedes date</b>	07/12/2015
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H362 May cause harm to breast-fed children. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH208 Contains EPICHLOROHYDRIN, POLYMER W/BISPHENOL A, thiram (ISO). May produce an allergic reaction.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.



## SAFETY DATA SHEET THIOFLEX 600 CURING AGENT

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name** THIOFLEX 600 CURING AGENT

**Product number** A2487010UK9, 2487100UK9

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Hardener component of two-part polysulphide sealant

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** Fosroc Limited  
 Drayton Manor Business Park  
 Coleshill Road  
 Tamworth  
 Staffordshire  
 B78 3XN  
 England  
 Tel: +44 (0) 1827 262222  
 Fax: +44 (0) 1827 262444  
 enquiryuk@fosroc.com

#### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 1827 265 279 (Monday-Sunday 24 hours a day)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified

**Health hazards** Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Lact. - H362  
 STOT RE 2 - H373

**Environmental hazards** Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

#### 2.2. Label elements

##### Hazard pictograms



**Signal word** Warning

**Hazard statements** H302+H332 Harmful if swallowed or if inhaled.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H362 May cause harm to breast-fed children.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H410 Very toxic to aquatic life with long lasting effects.

## THIOFLEX 600 CURING AGENT

<b>Precautionary statements</b>	<p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
<b>Contains</b>	CHLORINATED PARAFFIN (C14-17), MANGANESE DIOXIDE, thiram (ISO)
<b>Supplementary precautionary statements</b>	<p>P201 Obtain special instructions before use.</p> <p>P260 Do not breathe vapour/ spray.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P263 Avoid contact during pregnancy and while nursing.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/ attention.</p> <p>P314 Get medical advice/ attention if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P391 Collect spillage.</p>

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>CHLORINATED PARAFFIN (C14-17)</b>		<b>30-60%</b>
CAS number: 85535-85-9	EC number: 287-477-0	REACH registration number: 01-2119519269-33-xxxx
M factor (Acute) = 1	M factor (Chronic) = 100	
<b>Classification</b> Lact. - H362 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
<b>MANGANESE DIOXIDE</b>		<b>30-60%</b>
CAS number: 1313-13-9	EC number: 215-202-6	
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H332 STOT RE 2 - H373		
<b>CALCIUM CARBONATE (STEARATE COATED)</b>		<b>10-30%</b>
CAS number: 471-34-1	EC number: 207-439-9	
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -	

## THIOFLEX 600 CURING AGENT

<b>thiram (ISO)</b>	<b>1-5%</b>
CAS number: 137-26-8	EC number: 205-286-2
M factor (Acute) = 10	M factor (Chronic) = 10

<p><b>Classification</b></p> <p>Acute Tox. 4 - H302          Acute Tox. 4 - H332          Skin Irrit. 2 - H315          Eye Irrit. 2 - H319          Skin Sens. 1 - H317          STOT RE 2 - H373          Aquatic Acute 1 - H400          Aquatic Chronic 1 - H410</p>
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<b>SODIUM HYDROXIDE</b>	<b>1-5%</b>
CAS number: 1310-73-2	EC number: 215-185-5

<p><b>Classification</b></p> <p>Skin Corr. 1A - H314</p>
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The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Inhalation</b>	Remove affected person from source of contamination.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do Not induce vomiting. Get medical attention immediately.
<b>Skin contact</b>	Wash immediately with copious quantities of water. Remove contaminated clothing immediately. Obtain medical advice if skin orders develop.
<b>Eye contact</b>	Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists after washing.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>General information</b>	In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.
<b>Inhalation</b>	Irritation of nose, throat and airway.
<b>Ingestion</b>	May cause nausea, headache, dizziness and intoxication. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
<b>Skin contact</b>	May cause sensitisation by skin contact.
<b>Eye contact</b>	Irritation of eyes and mucous membranes.

#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
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### SECTION 5: Firefighting measures

## THIOFLEX 600 CURING AGENT

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with foam, carbon dioxide, dry powder or water fog.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** Thermal decomposition or combustion products may include the following substances: Oxides of nitrogen. Sulphurous gases (SO<sub>x</sub>). Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

**Hazardous combustion products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** No specific firefighting precautions known.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Neutralise and absorb with absorbing material and dispose of as solid waste.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in closed original container at temperatures between 5°C and 30°C. Protect from light.

**Storage class** Chemical storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### **MANGANESE DIOXIDE**

Long-term exposure limit (8-hour TWA): WEL 0.05 mg/m<sup>3</sup> respirable dust

Long-term exposure limit (8-hour TWA): 0.2 mg/m<sup>3</sup> inhalable dust  
as Mn

#### **CALCIUM CARBONATE (STEARATE COATED)**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> Inhal. Dust 4 mg/m<sup>3</sup> Resp. Dust

## THIOFLEX 600 CURING AGENT

### thiram (ISO)

Long-term exposure limit (8-hour TWA): 5 mg/m<sup>3</sup> respirable dust

Short-term exposure limit (15-minute): 10 mg/m<sup>3</sup> respirable dust

WEL = Workplace Exposure Limit

### CHLORINATED PARAFFIN (C14-17) (CAS: 85535-85-9)

#### DNEL

Industry - Inhalation; Long term systemic effects: 1.6 mg/m<sup>3</sup>

Industry - Dermal; Long term systemic effects: 47.9 mg/kg/day

Consumer - Oral; Long term systemic effects: 0.58 mg/kg/day

Consumer - Inhalation; Long term systemic effects: 2 mg/m<sup>3</sup>

Consumer - Dermal; Long term systemic effects: 28.75 mg/kg/day

#### PNEC

- Fresh water; 1000 mg/l

- marine water; 200 mg/l

- STP; 80 mg/l

## 8.2. Exposure controls

### Protective equipment



#### Appropriate engineering controls

All handling should only take place in well-ventilated areas.

#### Eye/face protection

The following protection should be worn: Chemical splash goggles. (conform EN 166)

#### Hand protection

It is recommended that gloves are made of the following material: Neoprene.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear impervious overalls in circumstances where significant skin contact can occur.

#### Hygiene measures

Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

#### Respiratory protection

No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

#### Environmental exposure controls

Refer to section 6 or 12.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Coloured paste.
Colour	Grey.
Odour	Mercaptan
Odour threshold	Not determined.
pH	Not relevant.
Melting point	Not relevant.



## THIOFLEX 600 CURING AGENT

<b>Initial boiling point and range</b>	Not relevant.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Relative density</b>	1.72 - 1.78 @ 20°C
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	The product contains a substance classified as oxidising.

### 9.2. Other information

**Other information** Not available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

**Stability** Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** No potentially hazardous reactions known.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**ATE oral (mg/kg)** 1,424.86

#### Acute toxicity - inhalation

## THIOFLEX 600 CURING AGENT

<b>ATE inhalation (dusts/mists mg/l)</b>	4.33
<b>Inhalation</b>	Irritating to respiratory system.
<b>Ingestion</b>	Harmful if swallowed. May cause nausea, headache, dizziness and intoxication.
<b>Skin contact</b>	May cause sensitisation by skin contact.
<b>Eye contact</b>	Irritating to eyes.
<b>Acute and chronic health hazards</b>	May cause sensitisation by skin contact. Irritating to eyes. Gas or vapour may irritate the respiratory system. may cause adverse effects on lactation.
<b>Route of exposure</b>	Inhalation Ingestion.
<b>Target organs</b>	Eyes Skin Respiratory system, lungs
<b>Medical symptoms</b>	Skin irritation. Diarrhoea. Upper respiratory irritation. Nausea, vomiting.
<b>Medical considerations</b>	No information available.

### Toxicological information on ingredients.

#### CHLORINATED PARAFFIN (C14-17)

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Oral, Rat

#### MANGANESE DIOXIDE

##### Acute toxicity - oral

**ATE oral (mg/kg)** 500.0

##### Acute toxicity - inhalation

**ATE inhalation (dusts/mists mg/l)** 1.5

#### thiram (ISO)

##### Acute toxicity - oral

**ATE oral (mg/kg)** 500.0

##### Acute toxicity - inhalation

**ATE inhalation (dusts/mists mg/l)** 1.5

##### Carcinogenicity

**IARC carcinogenicity** IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### **SECTION 12: Ecological information**

**Ecotoxicity** The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### 12.1. Toxicity

**Toxicity** Very toxic to aquatic organisms.

### Ecological information on ingredients.

## THIOFLEX 600 CURING AGENT

### CHLORINATED PARAFFIN (C14-17)

#### Acute aquatic toxicity

<b>LE(C)<sub>50</sub></b>	0.1 < L(E)C <sub>50</sub> ≤ 1
<b>M factor (Acute)</b>	1
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: >5000 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 0.006 mg/l, Daphnia magna

#### Chronic aquatic toxicity

<b>M factor (Chronic)</b>	100
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### thiram (ISO)

#### Acute aquatic toxicity

<b>M factor (Acute)</b>	10
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#### Chronic aquatic toxicity

<b>M factor (Chronic)</b>	10
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### 12.2. Persistence and degradability

**Persistence and degradability** The product is not expected to be biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

### Ecological information on ingredients.

### CHLORINATED PARAFFIN (C14-17)

**Bioaccumulative potential** BCF: < 2000 L/kg,

### 12.4. Mobility in soil

**Mobility** The product is insoluble in water.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Ecological information on ingredients.

### CHLORINATED PARAFFIN (C14-17)

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### MANGANESE DIOXIDE

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## THIOFLEX 600 CURING AGENT

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

<b>General information</b>	Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
<b>Disposal methods</b>	Dispose of waste via a licensed waste disposal contractor.
<b>Waste class</b>	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

### SECTION 14: Transport information

#### 14.1. UN number

<b>UN No. (ADR/RID)</b>	3082
<b>UN No. (IMDG)</b>	3082
<b>UN No. (ICAO)</b>	3082
<b>UN No. (ADN)</b>	3082

#### 14.2. UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORINATED PARAFFIN (C14-17), THIRAM)
<b>Proper shipping name (IMDG)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORINATED PARAFFIN (C14-17), THIRAM)
<b>Proper shipping name (ICAO)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORINATED PARAFFIN (C14-17), THIRAM)
<b>Proper shipping name (ADN)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORINATED PARAFFIN (C14-17), THIRAM)

#### 14.3. Transport hazard class(es)

<b>ADR/RID class</b>	9
<b>ADR/RID classification code</b>	M6
<b>ADR/RID label</b>	9
<b>IMDG class</b>	9
<b>ICAO class/division</b>	9
<b>ADN class</b>	9

#### Transport labels



#### 14.4. Packing group

<b>ADR/RID packing group</b>	III
<b>IMDG packing group</b>	III
<b>ICAO packing group</b>	III
<b>ADN packing group</b>	III

#### 14.5. Environmental hazards

## THIOFLEX 600 CURING AGENT

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(-)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Guidance	Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

General information	For professional users only.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	10/10/2019
Revision	6
Supersedes date	23/06/2017
Hazard statements in full	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H362 May cause harm to breast-fed children. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

## THIOFLEX 600 CURING AGENT

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.



## SAFETY DATA SHEET THIOFLEX 600 POURING GRADE POLYMER

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name** THIOFLEX 600 POURING GRADE POLYMER

**Product number** 2487060UK9

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Base component of two-part polysulphide sealant.

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** Fosroc Limited  
 Drayton Manor Business Park  
 Coleshill Road  
 Tamworth  
 Staffordshire  
 B78 3XN  
 England  
 Tel: +44 (0) 1827 262222  
 Fax: +44 (0) 1827 262444  
 enquiryuk@fosroc.com

#### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 1827 265 279 (Monday-Sunday 24 hours a day)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified

**Health hazards** Lact. - H362

**Environmental hazards** Aquatic Chronic 1 - H410

#### 2.2. Label elements

##### Hazard pictograms



**Signal word** Warning

**Hazard statements** EUH208 Contains EPICHLOROHYDRIN, POLYMER W/BISPHENOL A. May produce an allergic reaction.  
 H362 May cause harm to breast-fed children.  
 H410 Very toxic to aquatic life with long lasting effects.

## THIOFLEX 600 POURING GRADE POLYMER

**Precautionary statements**

P264 Wash contaminated skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P273 Avoid release to the environment.  
 P308+P313 IF exposed or concerned: Get medical advice/ attention.  
 P501 Dispose of contents/ container in accordance with national regulations.

**Supplementary precautionary statements**

P201 Obtain special instructions before use.  
 P260 Do not breathe vapour/ spray.  
 P263 Avoid contact during pregnancy and while nursing.  
 P391 Collect spillage.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>CALCIUM CARBONATE</b>	<b>30-60%</b>
CAS number: 1317-65-3	EC number: 215-279-6
<b>Classification</b>	
Not Classified	
<b>CHLORINATED PARAFFIN (C14-17)</b>	<b>10-30%</b>
CAS number: 85535-85-9	EC number: 287-477-0
M factor (Acute) = 1	M factor (Chronic) = 100
REACH registration number: Proprietary	
<b>Classification</b>	
Lact. - H362	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
<b>ALIPHATIC POLYSULPHIDE POLYMER</b>	<b>10-30%</b>
CAS number: 68611-50-7	
<b>Classification</b>	
Aquatic Chronic 3 - H412	
<b>TITANIUM DIOXIDE</b>	<b>1-5%</b>
CAS number: 13463-67-7	EC number: 236-675-5
REACH registration number: Proprietary	
<b>Classification</b>	
Not Classified	
<b>TALC</b>	<b>1-5%</b>
CAS number: 14807-96-6	EC number: 238-877-9
<b>Classification</b>	
Not Classified	



## THIOFLEX 600 POURING GRADE POLYMER

<b>EPICHLOROHYDRIN, POLYMER W/BISPHENOL A</b>	<b>&lt;1%</b>
CAS number: 25036-25-3	EC number: 682-390-8
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if symptoms are severe or persist.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Get medical attention promptly if symptoms occur after washing. Wash skin thoroughly with soap and water.
<b>Eye contact</b>	Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.

#### 4.2. Most important symptoms and effects, both acute and delayed

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Ingestion</b>	This product is moderately irritating.
<b>Skin contact</b>	Skin irritation. May cause an allergic skin reaction.
<b>Eye contact</b>	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	None.

#### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	No specific firefighting precautions applicable when small quantities are involved in the fire.
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## THIOFLEX 600 POURING GRADE POLYMER

**Hazardous combustion products** Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride (HCl). Sulphur dioxide.

### 5.3. Advice for firefighters

**Protective actions during firefighting** No specific firefighting precautions known.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear suitable protective clothing, gloves and eye/face protection.

### 6.2. Environmental precautions

**Environmental precautions** Prevent entry into drains, sewers and water courses.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** For professional users only. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

**Storage class** Chemical storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### **CALCIUM CARBONATE**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

#### **TITANIUM DIOXIDE**

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

#### **TALC**

Long-term exposure limit (8-hour TWA): WEL 1 mg/m<sup>3</sup> respirable dust

WEL = Workplace Exposure Limit

## THIOFLEX 600 POURING GRADE POLYMER

### CHLORINATED PARAFFIN (C14-17) (CAS: 85535-85-9)

<b>DNEL</b>	<p>Industry - Inhalation; Long term systemic effects: 1.6 mg/m<sup>3</sup></p> <p>Industry - Dermal; Long term systemic effects: 47.9 mg/kg/day</p> <p>Consumer - Oral; Long term systemic effects: 0.58 mg/kg/day</p> <p>Consumer - Inhalation; Long term systemic effects: 2 mg/m<sup>3</sup></p> <p>Consumer - Dermal; Long term systemic effects: 28.75 mg/kg/day</p>
<b>PNEC</b>	<p>- Fresh water; 1000 mg/l</p> <p>- marine water; 200 mg/l</p> <p>- STP; 80 mg/l</p>

### TITANIUM DIOXIDE (CAS: 13463-67-7)

<b>DNEL</b>	<p>Industry - Inhalation; Long term : 10 mg/m<sup>3</sup></p> <p>Consumer - Oral; Long term : 700 mg/kg/day</p>
<b>PNEC</b>	<p>- Fresh water; &gt;1 mg/l</p> <p>- marine water; 0.127 mg/l</p> <p>- Soil; 100 mg/kg</p> <p>- STP; 100 mg/kg</p>

### 3-GLYCIDYLOXYPROPYL-TRIMETHOXYSILANE (CAS: 2530-83-8)

<b>DNEL</b>	<p>Professional - Dermal; Short term : 21 mg/kg/day</p> <p>Professional - Inhalation; Short term : 147 mg/m<sup>3</sup></p> <p>Professional - Dermal; Long term : 21 mg/kg/day</p> <p>Professional - Inhalation; Long term : 147 mg/m<sup>3</sup></p>
<b>PNEC</b>	<p>Professional - Fresh water; 1 mg/l</p> <p>Professional - marine water; 0.1 mg/l</p> <p>Professional - water; 1 mg/l</p> <p>Professional - Sediment; 0.79 mg/kg</p> <p>Professional - Soil; 0.13 mg/kg</p>

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

### Eye/face protection

The following protection should be worn: Chemical splash goggles.

### Hand protection

Use protective gloves. It is recommended that gloves are made of the following material: Neoprene.

### Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear apron or protective clothing in case of contact.

### Hygiene measures

Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

## THIOFLEX 600 POURING GRADE POLYMER

**Respiratory protection** No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

**Environmental exposure controls** Refer to section 6 or 12.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Paste.
<b>Colour</b>	Grey.
<b>Odour</b>	Mercaptan
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not relevant.
<b>Melting point</b>	Not relevant.
<b>Initial boiling point and range</b>	Not relevant.
<b>Flash point</b>	>100°C
<b>Evaporation rate</b>	Not determined.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Relative density</b>	1.65 @ 20°C
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	The product contains a substance classified as oxidising.

#### 9.2. Other information

**Other information** Not determined.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

**Stability** Will not polymerise. Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

## THIOFLEX 600 POURING GRADE POLYMER

**Possibility of hazardous reactions** No potentially hazardous reactions known.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** When heated, vapours/gases hazardous to health may be formed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Inhalation** May cause respiratory system irritation.

**Ingestion** May cause irritation.

**Skin contact** Irritating to skin.

**Eye contact** Irritating to eyes.

**Acute and chronic health hazards** Contains a substance/a group of substances which may cause harm to breast-fed children.

**Route of exposure** Ingestion Skin and/or eye contact

**Target organs** Skin Eyes Respiratory system, lungs

**Medical symptoms** Skin irritation. Upper respiratory irritation.

### Toxicological information on ingredients.

#### CHLORINATED PARAFFIN (C14-17)

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Oral, Rat

#### ALIPHATIC POLYSULPHIDE POLYMER

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >3000 mg/kg, Oral, Rat

## SECTION 12: Ecological information

**Ecotoxicity** The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### 12.1. Toxicity

**Toxicity** Very toxic to aquatic organisms.

### Ecological information on ingredients.

#### CHLORINATED PARAFFIN (C14-17)

##### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.1 < L(E)C<sub>50</sub> ≤ 1

## THIOFLEX 600 POURING GRADE POLYMER

<b>M factor (Acute)</b>	1
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: >5000 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 0.006 mg/l, Daphnia magna
<b><u>Chronic aquatic toxicity</u></b>	
<b>M factor (Chronic)</b>	100

### ALIPHATIC POLYSULPHIDE POLYMER

<b><u>Acute aquatic toxicity</u></b>	
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 320 mg/l, Pimephales promelas (Fat-head Minnow)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 32 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 17 mg/l, Selenastrum capricornutum

#### 12.2. Persistence and degradability

**Persistence and degradability** The product is not expected to be biodegradable.

#### Ecological information on ingredients.

### ALIPHATIC POLYSULPHIDE POLYMER

<b>Persistence and degradability</b>	The product is not readily biodegradable.
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#### 12.3. Bioaccumulative potential

<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
<b>Partition coefficient</b>	Not determined.

#### Ecological information on ingredients.

### CHLORINATED PARAFFIN (C14-17)

<b>Bioaccumulative potential</b>	BCF: < 2000 L/kg,
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### ALIPHATIC POLYSULPHIDE POLYMER

<b>Bioaccumulative potential</b>	The product does not contain any substances expected to be bioaccumulating.
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#### 12.4. Mobility in soil

<b>Mobility</b>	The product is insoluble in water.
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#### Ecological information on ingredients.

### ALIPHATIC POLYSULPHIDE POLYMER

<b>Mobility</b>	Not considered mobile.
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#### 12.5. Results of PBT and vPvB assessment

<b>Results of PBT and vPvB assessment</b>	This product does not contain any substances classified as PBT or vPvB.
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#### Ecological information on ingredients.

## THIOFLEX 600 POURING GRADE POLYMER

### CHLORINATED PARAFFIN (C14-17)

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### ALIPHATIC POLYSULPHIDE POLYMER

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### 12.6. Other adverse effects

**Other adverse effects** Not determined.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**General information** Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### **SECTION 14: Transport information**

#### 14.1. UN number

<b>UN No. (ADR/RID)</b>	3082
<b>UN No. (IMDG)</b>	3082
<b>UN No. (ICAO)</b>	3082
<b>UN No. (ADN)</b>	3082

#### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORINATED PARAFFIN (C14-17))

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORINATED PARAFFIN (C14-17))

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORINATED PARAFFIN (C14-17))

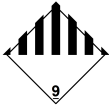
**Proper shipping name (ADN)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS CHLORINATED PARAFFIN (C14-17))

#### 14.3. Transport hazard class(es)

<b>ADR/RID class</b>	9
<b>ADR/RID classification code</b>	M6
<b>ADR/RID label</b>	9
<b>IMDG class</b>	9
<b>ICAO class/division</b>	9
<b>ADN class</b>	9

## THIOFLEX 600 POURING GRADE POLYMER

### Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>National regulations</b>	The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
<b>EU legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
<b>Guidance</b>	Workplace Exposure Limits EH40.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

**General information** Only trained personnel should use this material.



## THIOFLEX 600 POURING GRADE POLYMER

<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Lact. - H362: Calculation method. Aquatic Chronic 1 - H410: Calculation method. EUH208: Calculation method.
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	11/10/2019
<b>Revision</b>	8
<b>Supersedes date</b>	03/12/2015
<b>Hazard statements in full</b>	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H362 May cause harm to breast-fed children. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH208 Contains EPICHLOROHYDRIN, POLYMER W/BISPHENOL A. May produce an allergic reaction.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

## SAFETY DATA SHEET

### TMTD PASTE (MANGANESE)

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name** TMTD PASTE (MANGANESE)

**Product number** M2486150 UK9

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Hardener component of two-part polysulphide sealant

##### 1.3. Details of the supplier of the safety data sheet

###### Supplier

FOSROC Limited  
 Drayton Manor Business Park  
 Coleshill Road  
 Tamworth  
 Staffordshire  
 B78 3XN  
 enquiryuk@fosroc.com  
 Tel. +44 (0) 1827 262222  
 Fax. +44 (0) 1827 262444

##### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 1827 265 279 (08.30 to 17.00hrs Mon - Thu; 0.8.30 to 16.00hrs Fri)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Not Classified

**Health hazards** Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT RE 2 - H373

**Environmental hazards** Aquatic Chronic 1 - H410

##### 2.2. Label elements

###### Pictogram



###### Signal word

Warning

###### Hazard statements

H302+H332 Harmful if swallowed or if inhaled.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H410 Very toxic to aquatic life with long lasting effects.

## TMTD PASTE (MANGANESE)

<b>Precautionary statements</b>	<p>P261 Avoid breathing vapour/ spray.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
<b>Contains</b>	THIRAM
<b>Supplementary precautionary statements</b>	<p>P260 Do not breathe vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P273 Avoid release to the environment.</p> <p>P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.</p> <p>P314 Get medical advice/ attention if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P330 Rinse mouth.</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P391 Collect spillage.</p>

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>THIRAM</b>	<b>30-60%</b>
CAS number: 137-26-8	EC number: 205-286-2
M factor (Chronic) = 10	
<b>Classification</b>	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
STOT RE 2 - H373	
Aquatic Chronic 1 - H410	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General information</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Inhalation</b>	Remove affected person from source of contamination.

## TMTD PASTE (MANGANESE)

<b>Ingestion</b>	Rinse mouth thoroughly with water. Do Not induce vomiting. Get medical attention immediately.
<b>Skin contact</b>	Wash immediately with copious quantities of water. Remove contaminated clothing immediately. Obtain medical advice if skin orders develop.
<b>Eye contact</b>	Rinse immediately with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists after washing.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Irritation of nose, throat and airway.
<b>Ingestion</b>	May cause irritation. May cause stomach pain or vomiting.
<b>Skin contact</b>	May cause an allergic skin reaction.
<b>Eye contact</b>	Irritation of eyes and mucous membranes.

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations. Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide, dry powder or water fog.
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### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.
<b>Hazardous combustion products</b>	Oxides of carbon. Toxic gases or vapours.

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	No specific firefighting precautions known.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Avoid the spillage or runoff entering drains, sewers or watercourses.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	For personal protection, see Section 8. For waste disposal, see section 13.
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## TMTD PASTE (MANGANESE)

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in closed original container at temperatures between 5°C and 30°C. Protect from light.

**Storage class** Chemical storage.

#### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### THIRAM

Long-term exposure limit (8-hour TWA): 5 mg/m<sup>3</sup> respirable dust

Short-term exposure limit (15-minute): 10 mg/m<sup>3</sup> respirable dust

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

All handling should only take place in well-ventilated areas.

##### Eye/face protection

The following protection should be worn: Chemical splash goggles. (conform EN 166)

##### Hand protection

It is recommended that gloves are made of the following material: Neoprene. Nitrile rubber.

##### Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear impervious overalls in circumstances where significant skin contact can occur.

##### Hygiene measures

Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

##### Respiratory protection

No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Organic vapour filter.

##### Environmental exposure controls

Refer to section 6 or 12.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

**Appearance** Paste.

**Colour** Off-white.

**Odour** Characteristic.

## TMTD PASTE (MANGANESE)

<b>Odour threshold</b>	Not determined.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not applicable.
<b>Initial boiling point and range</b>	Not determined.
<b>Flash point</b>	~ 150°C CC (Closed cup).
<b>Evaporation rate</b>	Not determined.
<b>Evaporation factor</b>	Not determined.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not applicable.
<b>Auto-ignition temperature</b>	Not determined.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

### 9.2. Other information

**Other information** Not available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** Stable at normal ambient temperatures and when used as recommended.

### 10.2. Chemical stability

**Stability** Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Under normal conditions of storage and use, no hazardous reactions will occur.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## TMTD PASTE (MANGANESE)

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

ATE oral (mg/kg) 1,000.0

##### Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 3.0

Inhalation	Irritating to respiratory system.
Ingestion	Harmful if swallowed. May cause nausea, headache, dizziness and intoxication.
Skin contact	Irritating to skin. May cause an allergic skin reaction.
Eye contact	Irritating to eyes. Profuse watering of the eyes.
Acute and chronic health hazards	Irritating to eyes. Gas or vapour may irritate the respiratory system.
Route of entry	Inhalation Ingestion.
Target organs	Eyes Skin Respiratory system, lungs
Medical symptoms	Skin irritation. Upper respiratory irritation. Nausea, vomiting.
Medical considerations	No information available.

#### THIRAM

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 1,150.0

Species Rat

ATE oral (mg/kg) 1,150.0

##### Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 1.5

##### Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### SECTION 12: Ecological Information

**Ecotoxicity** The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### 12.1. Toxicity

**Toxicity** Very toxic to aquatic organisms.

#### THIRAM

##### Chronic aquatic toxicity

M factor (Chronic) 10

## TMTD PASTE (MANGANESE)

### 12.2. Persistence and degradability

**Persistence and degradability** The product is not expected to be biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product contains potentially bioaccumulating substances.

**Partition coefficient** Not applicable.

### 12.4. Mobility in soil

**Mobility** The product is insoluble in water.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste via a licensed waste disposal contractor.

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)** 3082

**UN No. (IMDG)** 3082

**UN No. (ICAO)** 3082

**UN No. (ADN)** 3082

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS THIRAM)

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS THIRAM)

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS THIRAM)

**Proper shipping name (ADN)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS THIRAM)

### 14.3. Transport hazard class(es)

**ADR/RID class** 9

**ADR/RID classification code** M6

**ADR/RID label** 9

**IMDG class** 9

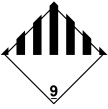
**ICAO class/division** 9

**ADN class** 9



## TMTD PASTE (MANGANESE)

### Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<b>National regulations</b>	Control of Substances Hazardous to Health Regulations 2002 (as amended).
<b>EU legislation</b>	Commission Regulation (EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
<b>Guidance</b>	Workplace Exposure Limits EH40.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

**General information** For professional users only. Only trained personnel should use this material.

**TMTD PASTE (MANGANESE)**

<b>Revision comments</b>	This is first issue.
<b>Revision date</b>	28/06/2017
<b>Revision</b>	1
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H373 May cause damage to organs through prolonged or repeated exposure. H373 May cause damage to organs (Liver) through prolonged or repeated exposure if swallowed. H410 Very toxic to aquatic life with long lasting effects.
<b>SDS number</b>	12144

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.