



## 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  
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; 08.30 to 16.00hrs Fri)

#### SECTION 2: Hazards identification

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

###### Classification

Physical hazards Not Classified

Health hazards Elicitation - EUH208 Lact. - H362

Environmental hazards Aquatic Chronic 1 - H410

Classification (67/548/EEC or 1999/45/EC) N;R50/53.

##### 2.2. Label elements

###### Pictogram



###### Signal word

Warning

## THIOFLEX 600 POURING GRADE POLYMER

<b>Hazard statements</b>	H362 May cause harm to breast-fed children. H410 Very toxic to aquatic life with long lasting effects. EUH208 Contains PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-POLYMER WITH 2,2'-(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENE OXYMETHYLENE)BIS(OXIRANE). May produce an allergic reaction.
<b>Precautionary statements</b>	P260 Do not breathe vapour/spray. P263 Avoid contact during pregnancy/while nursing. P273 Avoid release to the environment. P391 Collect spillage. P501 Dispose of contents/container in accordance with national regulations.
<b>Contains</b>	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>CALCIUM CARBONATE</b>			<b>30-60%</b>
CAS number: 1317-65-3			
<b>Classification</b>		<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Not Classified		-	
<b>CHLORINATED PARAFFIN (C14-17)</b>			<b>10-30%</b>
CAS number: 85535-85-9	EC number: 287-477-0	REACH registration number: Proprietary	
M factor (Chronic) = 100			
<b>Classification</b>			
Lact. - H362			
Aquatic Chronic 1 - H410			
<b>LIQUID POLYSULFIDE POLYMER</b>			<b>10-30%</b>
CAS number: 68611-50-7			
<b>Classification</b>			
Aquatic Chronic 3 - H412			
<b>LIQUID POLYSULPHIDE POLYMER</b>			<b>10-30%</b>
CAS number: 68611-50-7			
<b>Classification</b>		<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Aquatic Chronic 3 - H412		R52/53.	
<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>		<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Not Classified		-	

## THIOFLEX 600 POURING GRADE POLYMER

<b>TALC</b>	<b>1-5%</b>
CAS number: 14807-96-6	
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -
<b>Epoxy Resin</b>	<b>&lt;1%</b>
CAS number: 25036-25-3	
<b>Classification</b> Eye Irrit. 2 - H319 Skin Sens. 1 - H317	
<b>XYLENE</b>	<b>&lt;1%</b>
CAS number: 1330-20-7                      EC number: 215-535-7	
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315	
<b>SILICA (HYDROPHOBIC)</b>	<b>&lt;1%</b>
CAS number: 67762-90-7	
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -

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. Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<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. Remove any contact lenses and open eyelids wide apart. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes and get medical attention.

## THIOFLEX 600 POURING GRADE POLYMER

### 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>	Upper respiratory irritation.
<b>Ingestion</b>	Diarrhoea. Nausea, vomiting.
<b>Skin contact</b>	Skin irritation. Allergic rash.
<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>	The product is non-combustible. Irritating gases or vapours. No unusual fire or explosion hazards noted.
<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

### 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 suitable protective clothing, gloves and eye/face protection.
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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

## THIOFLEX 600 POURING GRADE POLYMER

**Usage precautions** 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.

### 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 10 mg/m<sup>3</sup> inhalable dust

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

##### TALC

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

##### XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m<sup>3</sup>

Sk

##### SILICA (HYDROPHOBIC)

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

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

### 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

## THIOFLEX 600 POURING GRADE POLYMER

<b>PNEC</b>	- Fresh water; >1 mg/l
	- Marine water; 0.127 mg/l
	- Soil; 100 mg/kg
	- STP; 100 mg/kg

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

<b>DNEL</b>	Professional - Dermal; Short term : 21 mg/kg/day
	Professional - Inhalation; Short term : 147 mg/m <sup>3</sup>
	Professional - Dermal; Long term : 21 mg/kg/day
	Professional - Inhalation; Long term : 147 mg/m <sup>3</sup>

<b>PNEC</b>	Professional - Fresh water; 1 mg/l
	Professional - Marine water; 0.1 mg/l
	Professional - water; 1 mg/l
	Professional - Sediment; 0.79 mg/kg
	Professional - Soil; 0.13 mg/kg

### XYLENE (CAS: 1330-20-7)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 77 mg/m <sup>3</sup>
	Workers - Inhalation; Short term systemic effects: 289 mg/m <sup>3</sup>
	Workers - Dermal; Long term systemic effects: 180 mg/kg/day

<b>PNEC</b>	- Fresh water; 0.327 mg/l
	- Marine water; 0.327 mg/l
	- STP; 6.58 mg/l

## 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 hands 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

## THIOFLEX 600 POURING GRADE POLYMER

<b>Appearance</b>	Paste.
<b>Colour</b>	Grey.
<b>Odour</b>	Mercaptan
<b>Flash point</b>	>100°C
<b>Relative density</b>	1.65 @ °C
<b>Solubility(ies)</b>	Insoluble in water.

### 9.2. Other information

<b>Other information</b>	Not determined.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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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

<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong oxidising agents. Strong acids.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	When heated, vapours/gases hazardous to health may be formed.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Inhalation</b>	Harmful by inhalation. May cause respiratory system irritation.
<b>Ingestion</b>	Harmful if swallowed. May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting. Diarrhoea.
<b>Skin contact</b>	Irritating to skin.
<b>Eye contact</b>	Irritating to eyes.
<b>Acute and chronic health hazards</b>	Irritating to skin. Irritating to eyes. Gas or vapour may irritate the respiratory system.
<b>Route of entry</b>	Ingestion. Inhalation
<b>Target organs</b>	Skin Eyes Respiratory system, lungs
<b>Medical symptoms</b>	Skin irritation. Diarrhoea. Upper respiratory irritation. Nausea, vomiting.
<b>Medical considerations</b>	No information available.

## THIOFLEX 600 POURING GRADE POLYMER

### 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

#### LIQUID POLYSULFIDE POLYMER

##### Acute toxicity - oral

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

#### LIQUID POLYSULPHIDE POLYMER

##### Acute toxicity - oral

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

#### XYLENE

##### Acute toxicity - dermal

**ATE dermal (mg/kg)** 1,100.0

##### 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 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

#### LIQUID POLYSULFIDE POLYMER

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 320 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 32 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 17 mg/l, Selenastrum capricornutum

#### LIQUID POLYSULPHIDE POLYMER



## THIOFLEX 600 POURING GRADE POLYMER

<b>Acute toxicity - fish</b>	LC50, 96 hours, 96 hours: > 1000 mg/l, Cyprinodon variegatus (Sheepshead minnow) LC50, 96 hours, 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, 72 hours: 17 mg/l, Selenastrum capricornutum

### XYLENE

<b>Toxicity</b>	Not considered toxic to fish.
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### 12.2. Persistence and degradability

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

### Ecological information on ingredients.

#### LIQUID POLYSULFIDE POLYMER

<b>Persistence and degradability</b>	The product is not readily biodegradable.
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#### LIQUID POLYSULPHIDE POLYMER

<b>Persistence and degradability</b>	This product is not expected to be readily biodegradable.
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### XYLENE

<b>Persistence and degradability</b>	The product is biodegradable.
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### 12.3. Bioaccumulative potential

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

### Ecological information on ingredients.

#### CHLORINATED PARAFFIN (C14-17)

<b>Bioaccumulative potential</b>	BCF: < 2000 L/kg,
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#### LIQUID POLYSULFIDE POLYMER

<b>Bioaccumulative potential</b>	The product does not contain any substances expected to be bioaccumulating.
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#### LIQUID POLYSULPHIDE POLYMER

<b>Bioaccumulative potential</b>	Not expected to be bioaccumulative.
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### 12.4. Mobility in soil

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

### Ecological information on ingredients.

## THIOFLEX 600 POURING GRADE POLYMER

### LIQUID POLYSULFIDE POLYMER

**Mobility** Soil mobility is poor.

### LIQUID POLYSULPHIDE POLYMER

**Mobility** Soil mobility is poor.

### XYLENE

**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.

### LIQUID POLYSULFIDE POLYMER

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

### LIQUID 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

## THIOFLEX 600 POURING GRADE POLYMER

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

### Transport labels



### 14.4. Packing group

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

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

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

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

## THIOFLEX 600 POURING GRADE POLYMER

### 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

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	03/12/2015
<b>Revision</b>	7
<b>Supersedes date</b>	08/04/2015
<b>Risk phrases in full</b>	NC Not classified. R10 Flammable. R20/21 Harmful by inhalation and in contact with skin. R36 Irritating to eyes. R36/37/38 Irritating to eyes, respiratory system and skin. R38 Irritating to skin. R43 May cause sensitisation by skin contact. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R64 May cause harm to breastfed babies. R66 Repeated exposure may cause skin dryness or cracking.
<b>Hazard statements in full</b>	EUH208 Contains PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-POLYMER WITH 2,2'-(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENE OXYMETHYLENE)BIS(OXIRANE). May produce an allergic reaction. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H362 May cause harm to breast-fed children. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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 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** 2486320UK9

#### 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  
 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; 08.30 to 16.00hrs Fri)

### SECTION 2: Hazards identification

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

##### Classification

**Physical hazards** Not Classified  
**Health hazards** Elicitation - EUH208 Lact. - H362  
**Environmental hazards** Aquatic Chronic 1 - H410

**Classification (67/548/EEC or 1999/45/EC)** Xi;R36/37/38. N;R50/53. R64.

#### 2.2. Label elements

##### Pictogram



##### Signal word

Warning

## THIOFLEX 600 GUN GRADE GREY

### Hazard statements

H362 May cause harm to breast-fed children.  
 H410 Very toxic to aquatic life with long lasting effects.  
 EUH208 Contains THIRAM, PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-POLYMER WITH 2,2'-(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENE OXYMETHYLENE)BIS(OXIRANE). May produce an allergic reaction.

### Precautionary statements

P260 Do not breathe vapour/spray.  
 P263 Avoid contact during pregnancy/while nursing.  
 P273 Avoid release to the environment.  
 P391 Collect spillage.  
 P501 Dispose of contents/container in accordance with national regulations.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

### Contains

CHLORINATED PARAFFIN (C14-17)

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>CHLORINATED PARAFFIN (C14-17)</b> <span style="float: right;"><b>10-30%</b></span>		
CAS number: 85535-85-9	EC number: 287-477-0	REACH registration number: 01-2119519269-33-xxxx
M factor (Chronic) = 100		
<b>Classification</b>		
Lact. - H362		
Aquatic Chronic 1 - H410		
<b>LIQUID POLYSULFIDE POLYMER</b> <span style="float: right;"><b>10-30%</b></span>		
CAS number: 68611-50-7		
<b>Classification</b>		
Aquatic Chronic 3 - H412		
<b>CALCIUM CARBONATE (STEARATE COATED)</b> <span style="float: right;"><b>10-30%</b></span>		
CAS number: 471-34-1	EC number: 207-439-9	
<b>Classification</b>		<b>Classification (67/548/EEC or 1999/45/EC)</b>
Not Classified		-
<b>TITANIUM DIOXIDE</b> <span style="float: right;"><b>1-5%</b></span>		
CAS number: 13463-67-7	EC number: 236-675-5	REACH registration number: 01-2119489379-17-0000
<b>Classification</b>		<b>Classification (67/548/EEC or 1999/45/EC)</b>
Not Classified		-

## THIOFLEX 600 GUN GRADE GREY

<b>MANGANESE DIOXIDE</b>	<b>&lt;1%</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	
<b>Classification</b>	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
<b>THIRAM</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	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Acute Tox. 4 - H332	Xn;R20/22,R48/22 R43 Xi;R36/38 N;R50/53
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
STOT RE 2 - H373	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
<b>XYLENE</b>	<b>&lt;1%</b>
CAS number: 1330-20-7	EC number: 215-535-7
<b>Classification</b>	
Flam. Liq. 3 - H226	
Acute Tox. 4 - H312	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
<b>SODIUM HYDROXIDE</b>	<b>&lt;1%</b>
CAS number: 1310-73-2	EC number: 215-185-5
<b>Classification</b>	
Skin Corr. 1A - H314	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Eye Dam. 1 - H318	C;R35

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

## THIOFLEX 600 GUN GRADE GREY

<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. Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<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. Remove any contact lenses and open eyelids wide apart. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. 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.
<b>Skin contact</b>	Skin irritation. Allergic rash.
<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>	The product is non-combustible. Irritating gases or vapours. No unusual fire or explosion hazards noted.
<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

### 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



## THIOFLEX 600 GUN GRADE GREY

**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**      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.

### 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 (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

#### **TITANIUM DIOXIDE**

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

#### **MANGANESE DIOXIDE**

Long-term exposure limit (8-hour TWA): WEL 0,5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

#### **XYLENE**

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m<sup>3</sup>

Sk

#### **SODIUM HYDROXIDE**

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

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

## THIOFLEX 600 GUN GRADE GREY

**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

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

**DNEL** Professional - Dermal; Short term : 21 mg/kg/day  
 Professional - Inhalation; Short term : 147 mg/m<sup>3</sup>  
 Professional - Dermal; Long term : 21 mg/kg/day  
 Professional - Inhalation; Long term : 147 mg/m<sup>3</sup>

**PNEC** Professional - Fresh water; 1 mg/l  
 Professional - Marine water; 0.1 mg/l  
 Professional - water; 1 mg/l  
 Professional - Sediment; 0.79 mg/kg  
 Professional - Soil; 0.13 mg/kg

### XYLENE (CAS: 1330-20-7)

**DNEL** Workers - Inhalation; Long term systemic effects: 77 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term systemic effects: 289 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 180 mg/kg/day

**PNEC** - Fresh water; 0.327 mg/l  
 - Marine water; 0.327 mg/l  
 - STP; 6.58 mg/l

### SODIUM HYDROXIDE (CAS: 1310-73-2)

**DNEL** Workers - Inhalation; Long term local effects: 1 mg/m<sup>3</sup>

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

## THIOFLEX 600 GUN GRADE GREY

<b>Eye/face protection</b>	The following protection should be worn: Chemical splash goggles.
<b>Hand protection</b>	Use protective gloves. It is recommended that gloves are made of the following material: Neoprene.
<b>Other skin and body protection</b>	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.
<b>Hygiene measures</b>	Provide eyewash station. Do not smoke in work area. Wash hands 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.
<b>Environmental exposure controls</b>	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>Flash point</b>	>100°C
<b>Relative density</b>	1.65 @ °C
<b>Solubility(ies)</b>	Insoluble in water.

#### 9.2. Other information

<b>Other information</b>	Not determined.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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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

<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
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#### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time.
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#### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong oxidising agents. Strong acids.
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#### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	When heated, vapours/gases hazardous to health may be formed.
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### SECTION 11: Toxicological information

## THIOFLEX 600 GUN GRADE GREY

### 11.1. Information on toxicological effects

<b>Inhalation</b>	Harmful by inhalation. May cause respiratory system irritation.
<b>Ingestion</b>	Harmful if swallowed. May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting. Diarrhoea.
<b>Skin contact</b>	Irritating to skin.
<b>Eye contact</b>	Irritating to eyes.
<b>Acute and chronic health hazards</b>	Irritating to skin. Irritating to eyes. Gas or vapour may irritate the respiratory system.
<b>Route of entry</b>	Ingestion. Inhalation
<b>Target organs</b>	Skin Eyes 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

#### LIQUID POLYSULFIDE POLYMER

##### Acute toxicity - oral

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

#### THIRAM

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 1,800.0

**Species** Rat

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

##### 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)

## THIOFLEX 600 GUN GRADE GREY

<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

### LIQUID POLYSULFIDE POLYMER

<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

### THIRAM

<b><u>Acute aquatic toxicity</u></b>	
<b>LE(C)<sub>50</sub></b>	0.1 < L(E)C <sub>50</sub> ≤ 1
<b>M factor (Acute)</b>	10
<b><u>Chronic aquatic toxicity</u></b>	
<b>M factor (Chronic)</b>	10

## 12.2. Persistence and degradability

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

### Ecological information on ingredients.

#### LIQUID POLYSULFIDE POLYMER

**Persistence and degradability** The product is not readily biodegradable.

## 12.3. Bioaccumulative potential

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

### Ecological information on ingredients.

#### CHLORINATED PARAFFIN (C14-17)

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

#### LIQUID POLYSULFIDE POLYMER

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

## 12.4. Mobility in soil

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

### Ecological information on ingredients.

#### LIQUID POLYSULFIDE POLYMER

## THIOFLEX 600 GUN GRADE GREY

**Mobility** Soil mobility is poor.

### 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.

#### LIQUID POLYSULFIDE 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.

**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. (CHLORINATED PARAFFIN (C14-17))

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

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

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

### 14.3. Transport hazard class(es)

**ADR/RID class** 9

**ADR/RID subsidiary risk**

**ADR/RID label** 9

## THIOFLEX 600 GUN GRADE GREY

IMDG class 9

IMDG subsidiary risk

ICAO class/division 9

ICAO subsidiary risk

Transport labels



### 14.4. Packing group

ADR/RID packing group III

IMDG 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

Emergency Action Code 2Z

Hazard Identification Number (ADR/RID) 90

Tunnel restriction code (E)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 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).  
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

**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

## THIOFLEX 600 GUN GRADE GREY

<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>	07/12/2015
<b>Revision</b>	6
<b>Supersedes date</b>	08/04/2015
<b>Risk phrases in full</b>	NC Not classified. R10 Flammable. R20/21 Harmful by inhalation and in contact with skin. R20/22 Harmful by inhalation and if swallowed. R35 Causes severe burns. R36 Irritating to eyes. R36/37/38 Irritating to eyes, respiratory system and skin. R36/38 Irritating to eyes and skin. R38 Irritating to skin. R43 May cause sensitisation by skin contact. R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R64 May cause harm to breastfed babies. R66 Repeated exposure may cause skin dryness or cracking.
<b>Hazard statements in full</b>	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H362 May cause harm to breast-fed children. H373 May cause damage to organs (Brain) through prolonged or repeated exposure if inhaled. H373 May cause damage to organs (Liver) through prolonged or repeated exposure if swallowed. 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 THIRAM, PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-POLYMER WITH 2,2'-(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENE OXYMETHYLENE)BIS(OXIRANE). 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  
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; 08.30 to 16.00hrs Fri)

### SECTION 2: Hazards identification

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

##### Classification

**Physical hazards** Not Classified

**Health hazards** Skin Sens. 1 - H317 Lact. - H362 STOT RE 2 - H373

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

**Classification (67/548/EEC or 1999/45/EC)** R43. N;R50/53. R64,R66.

#### 2.2. Label elements

##### Pictogram



##### Signal word

Warning

##### Hazard statements

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 if inhaled.  
H410 Very toxic to aquatic life with long lasting effects.

## THIOFLEX 600 CURING AGENT

**Precautionary statements** P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P501 Dispose of contents/container in accordance with national regulations.

**Contains** CHLORINATED PARAFFIN (C14-17), MANGANESE DIOXIDE, THIRAM

**Supplementary precautionary statements** P261 Avoid breathing vapour/spray.  
 P314 Get medical advice/attention if you feel unwell.  
 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>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 (Chronic) = 100		
<b>Classification</b>		
Lact. - H362		
Aquatic Chronic 1 - H410		
<b>MANGANESE DIOXIDE</b>		<b>10-30%</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>		<b>Classification (67/548/EEC or 1999/45/EC)</b>
Not Classified		-

## THIOFLEX 600 CURING AGENT

<b>THIRAM</b>		<b>1-5%</b>
CAS number: 137-26-8	EC number: 205-286-2	
M factor (Acute) = 10	M factor (Chronic) = 10	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Acute Tox. 4 - H302	Xn;R20/22,R48/22 R43 Xi;R36/38 N;R50/53	
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>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

#### 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** The product is non-combustible. Irritating gases or vapours. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

## THIOFLEX 600 CURING AGENT

**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 0,5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

#### 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

WEL = Workplace Exposure Limit

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

## THIOFLEX 600 CURING AGENT

<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>

### 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 hands 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

<b>Appearance</b>	Coloured paste.
<b>Colour</b>	Grey.
<b>Odour</b>	Mercaptan
<b>Relative density</b>	Not determined.
<b>Solubility(ies)</b>	Insoluble in water.

### 9.2. Other information

<b>Other information</b>	Not available.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

#### Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

## THIOFLEX 600 CURING AGENT

**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)** 2,390.04769086

#### Acute toxicity - inhalation

**ATE inhalation (gases ppm)** 147,613.5804494

**ATE inhalation (vapours mg/l)** 360.83319665

**ATE inhalation (dusts/mists mg/l)** 7.07345977

**Inhalation** Irritating to respiratory system.

**Ingestion** Harmful if swallowed. May cause nausea, headache, dizziness and intoxication.

**Skin contact** May cause sensitisation by skin contact.

**Eye contact** Irritating to eyes.

**Acute and chronic health hazards** May cause sensitisation by skin contact. 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. Diarrhoea. Upper respiratory irritation. Nausea, vomiting.

**Medical considerations** 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

**THIOFLEX 600 CURING AGENT**

ATE oral (mg/kg) 500.0

Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 1.5

THIRAMAcute toxicity - oralAcute toxicity oral (LD<sub>50</sub> mg/kg) 1,800.0

Species Rat

ATE oral (mg/kg) 500.0

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 toxicity - fish LC<sub>50</sub>, 96 hours: >5000 mg/l, FishAcute toxicity - aquatic invertebrates EC<sub>50</sub>, 48 hours: 0.006 mg/l, Daphnia magnaChronic aquatic toxicity

M factor (Chronic) 100

THIRAMAcute aquatic toxicityLE(C)<sub>50</sub> 0.1 < L(E)C50 ≤ 1

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.

Ecological information on ingredients.

## THIOFLEX 600 CURING AGENT

### 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. 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.

**Waste class** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

### **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. (CHLORINATED PARAFFIN (C14-17))

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

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



## THIOFLEX 600 CURING AGENT

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

### 14.3. Transport hazard class(es)

#### ADR/RID subsidiary risk

ADR/RID label 9

IMDG class 9

#### IMDG subsidiary risk

ICAO class/division 9

#### ICAO subsidiary risk

#### Transport labels



### 14.4. Packing group

IMDG 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

Emergency Action Code 2Z

Hazard Identification Number (ADR/RID) 90

Tunnel restriction code (E)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

Annex II of MARPOL 73/78 and the IBC Code

## 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

## THIOFLEX 600 CURING AGENT

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>	07/12/2015
<b>Revision</b>	5
<b>Supersedes date</b>	07/04/2015
<b>Risk phrases in full</b>	<p>NC Not classified.</p> <p>R20/22 Harmful by inhalation and if swallowed.</p> <p>R35 Causes severe burns.</p> <p>R36/38 Irritating to eyes and skin.</p> <p>R43 May cause sensitisation by skin contact.</p> <p>R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.</p> <p>R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>R64 May cause harm to breastfed babies.</p> <p>R66 Repeated exposure may cause skin dryness or cracking.</p>
<b>Hazard statements in full</b>	<p>H302 Harmful if swallowed.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H362 May cause harm to breast-fed children.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure if inhaled.</p> <p>H373 May cause damage to organs (Brain) through prolonged or repeated exposure if inhaled.</p> <p>H373 May cause damage to organs (Liver) through prolonged or repeated exposure if swallowed.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p>

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.