



## 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

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

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EPICHLOROHYDRIN, POLYMER W/BISPHENOL A		<1%
CAS number: 25036-25-3	EC number: 682-390-8	
Classification		
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>	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
<b>PNEC</b>	- Fresh water; 1000 mg/l - marine water; 200 mg/l - STP; 80 mg/l

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

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

<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

## 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.

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**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

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<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

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

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/BISPHEENOL 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.