



## 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.

## THIOFLEX 600 GUN GRADE GREY

**Precautionary statements**

P260 Do not breathe vapour/ spray.  
P263 Avoid contact during pregnancy and 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 product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

TREATED CALCIUM CARBONATE			30-60%
CAS number: 471-34-1			
Classification		Classification (67/548/EEC or 1999/45/EC)	
Not Classified		Xi;R36/37/38.	
CHLORINATED PARAFFIN (C14-17)			10-30%
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		
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: 01-2119489379-17-0000	
Classification			
Not Classified			

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<b>MANGANESE DIOXIDE</b>	<b>1-5%</b>
CAS number: 1313-13-9	EC number: 215-202-6

**Classification**

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

**Classification**

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

**Classification**

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

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**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 1.5  
(dusts/mists mg/l)

### thiram (ISO)

### Acute toxicity - oral

ATE oral (mg/kg) 500.0

### Acute toxicity - inhalation

ATE inhalation 1.5  
(dusts/mists mg/l)

### 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.