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

## Hazard statements

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.

## 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.

## 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

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<tr>
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<td>REACH registration number: Proprietary</td>
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**THIOFLEX 600 POURING GRADE POLYMER**

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</tbody>
</table>

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

- **General information**: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

- **Inhalation**: 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.

- **Ingestion**: 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.

- **Skin contact**: 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.

- **Eye contact**: 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

General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
Upper respiratory irritation.

Ingestion
Diarrhoea. Nausea, vomiting.

Skin contact
Skin irritation. Allergic rash.

Eye contact
Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

Notes for the doctor
No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media
None.

5.2. Special hazards arising from the substance or mixture

Specific hazards
The product is non-combustible. Irritating gases or vapours. No unusual fire or explosion hazards noted.

Hazardous combustion products
When heated, vapours/gases hazardous to health may be formed. Heating may generate the following products: Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen chloride (HCl). Hydrogen sulphide (H2S). Sulphur dioxide. Formaldehyde

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
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/m³ inhalable dust
Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

TITANIUM DIOXIDE
Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust
Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

TALC
Long-term exposure limit (8-hour TWA): WEL 1 mg/m³ respirable dust

XYLENE
Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³
Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³

Sk

SILICA (HYDROPHOBIC)
Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ Inhal. Dust 10 mg/m³ 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/m³
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/m³
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/m³
Consumer - Oral; Long term : 700 mg/kg/day
THIOFLEX 600 POURING GRADE POLYMER

PNEC
- 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)

DNEL
Professional - Dermal; Short term : 21 mg/kg/day
Professional - Inhalation; Short term : 147 mg/m³
Professional - Dermal; Long term : 21 mg/kg/day
Professional - Inhalation; Long term : 147 mg/m³

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/m³
Workers - Inhalation; Short term systemic effects: 289 mg/m³
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

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

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

SECTION 10: Stability and reactivity

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

10.2. Chemical stability
Stability Hazardous polymerisation will not occur.

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 When heated, vapours/gases hazardous to health may be formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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.
Acute and chronic health hazards Irritating to skin. Irritating to eyes. Gas or vapour may irritate the respiratory system.
Route of entry Ingestion. Inhalation
Target organs Skin Eyes Respiratory system, lungs
Medical considerations No information available.
THIOFLEX 600 POURING GRADE POLYMER

Toxicological information on ingredients.

**CHLORINATED PARAFFIN (C14-17)**

**Acute toxicity - oral**

Notes (oral LD₅₀)

LD₅₀ >2000 mg/kg, Oral, Rat

**LIQUID POLYSULFIDE POLYMER**

**Acute toxicity - oral**

Notes (oral LD₅₀)

LD₅₀ >3000 mg/kg, Oral, Rat

**LIQUID POLYSULPHIDE POLYMER**

**Acute toxicity - oral**

Notes (oral LD₅₀)

LD₅₀ >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**

LC₅₀, 96 hours: >5000 mg/l, Fish

**Acute toxicity - aquatic invertebrates**

EC₅₀, 48 hours: 0.006 mg/l, Daphnia magna

**Chronic aquatic toxicity**

M factor (Chronic)

100

**LIQUID POLYSULFIDE POLYMER**

**Acute toxicity - fish**

LC₅₀, 96 hours: 320 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates**

EC₅₀, 48 hours: 32 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**

EC₅₀, 72 hours: 17 mg/l, Selenastrum capricornutum

**LIQUID POLYSULPHIDE POLYMER**
THIOFLEX 600 POURING GRADE POLYMER

Acute toxicity - fish

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)

Acute toxicity - aquatic invertebrates
EC₅₀, 48 hours: 32 mg/l, Daphnia magna

Acute toxicity - aquatic plants
EC₅₀, 72 hours, 72 hours: 17 mg/l, Selenastrum capricornutum

XYLENE

Toxicity
Not considered toxic to fish.

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.

LIQUID POLYSULPHIDE POLYMER

Persistence and degradability
This product is not expected to be readily biodegradable.

XYLENE

Persistence and degradability
The product is 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.

LIQUID POLYSULPHIDE POLYMER

Bioaccumulative potential
Not expected to be bioaccumulative.

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

| UN No. (ADR/RID) | 3082 |
| UN No. (IMDG)    | 3082 |
| UN No. (ICAO)    | 3082 |
| UN No. (ADN)     | 3082 |

14.2. UN proper shipping name
THIOFLEX 600 POURING GRADE POLYMER

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)
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
ADN packing group III
ICAO packing group III

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant

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

14.7. Transport in bulk according to Annex II of 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

**National regulations**

**EU legislation**

**Guidance**
- Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

**Revision comments**
NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date**
03/12/2015

**Revision**
7

**Supersedes date**
08/04/2015

**Risk phrases in full**
- 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.

**Hazard statements in full**
- 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

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<th>Percentage</th>
<th>CAS number</th>
<th>EC number</th>
<th>REACH registration number</th>
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<td>287-477-0</td>
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<tr>
<td>Aquatic Chronic 1</td>
<td>H410</td>
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</tr>
<tr>
<td>LIQUID POLYSULFIDE POLYMER</td>
<td>10-30%</td>
<td>68611-50-7</td>
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<td>Classification</td>
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THIOFLEX 600 GUN GRADE GREY

MANGANESE DIOXIDE
CAS number: 1313-13-9  EC number: 215-202-6

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H332
STOT RE 2 - H373

EPICHLOROHYDRIN, POLYMER W/BISPHENOL A
CAS number: 25036-25-3

Classification
Eye Irrit. 2 - H319
Skin Sens. 1 - H317

THIRAM
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

Classification (67/548/EEC or 1999/45/EC)
Xn;R20/22,R48/22 R43 Xi;R36/38 N;R50/53

XYLENE
CAS number: 1330-20-7  EC number: 215-535-7

Classification
Flam. Liq. 3 - H226
Acute Tox. 4 - H312
Acute Tox. 4 - H332
Skin Irrit. 2 - H315

SODIUM HYDROXIDE

Classification
Skin Corr. 1A - H314
Eye Dam. 1 - H318

Classification (67/548/EEC or 1999/45/EC)
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

General information
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Inhalation
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.

Ingestion
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.

Skin contact
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.

Eye contact
Remove affected person from source of contamination. 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

Inhalation
Upper respiratory irritation.

Ingestion
Diarrhoea. Nausea, vomiting.

Skin contact
Skin irritation. Allergic rash.

Eye contact
Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

Notes for the doctor
No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media
None.

5.2. Special hazards arising from the substance or mixture

Specific hazards
The product is non-combustible. Irritating gases or vapours. No unusual fire or explosion hazards noted.

Hazardous combustion products
When heated, vapours/gases hazardous to health may be formed. Heating may generate the following products: Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen chloride (HCl). Hydrogen sulphide (H2S). Sulphur dioxide. Formaldehyde

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
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/m³ Inhal. Dust 4 mg/m³ Resp. Dust

TITANIUM DIOXIDE
Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust
Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

MANGANESE DIOXIDE
Long-term exposure limit (8-hour TWA): WEL 0,5 mg/m³
Short-term exposure limit (15-minute): WEL 2 mg/m³

XYLENE
Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³
Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³ Sk

SODIUM HYDROXIDE
Short-term exposure limit (15-minute): WEL 2 mg/m³

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/m³
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/m³
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/m³
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-TRIMETHOXYSILANE (CAS: 2530-83-8)

DNEL
Professional - Dermal; Short term : 21 mg/kg/day
Professional - Inhalation; Short term : 147 mg/m³
Professional - Dermal; Long term : 21 mg/kg/day
Professional - Inhalation; Long term : 147 mg/m³

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/m³
Workers - Inhalation; Short term systemic effects: 289 mg/m³
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/m³

8.2. Exposure controls

Protective equipment

Appropriate engineering controls

Provide adequate general and local exhaust ventilation.
THIOFLEX 600 GUN GRADE GREY

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

Appearance
Paste.

Colour
Grey.

Odour
Mercaptan

Flash point
>100°C

Relative density
1.65 @ °C

Solubility(ies)
Insoluble in water.

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
Hazardous polymerisation will not occur.

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
When heated, vapours/gases hazardous to health may be formed.

SECTION 11: Toxicological information
THIOFLEX 600 GUN GRADE GREY

11.1. Information on toxicological effects

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.
Acute and chronic health hazards  Irritating to skin. Irritating to eyes. Gas or vapour may irritate the respiratory system.
Route of entry  Ingestion. Inhalation
Target organs  Skin Eyes Respiratory system, lungs
Medical considerations  No information available.

Toxicological information on ingredients.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Acute toxicity - oral</th>
<th>Notes (oral LD₅₀)</th>
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<tbody>
<tr>
<td>CHLORINATED PARAFFIN (C14-17)</td>
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<td>LD₅₀ &gt;2000 mg/kg, Oral, Rat</td>
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<tr>
<td>LIQUID POLYSULFIDE POLYMER</td>
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<td>LD₅₀ &gt;3000 mg/kg, Oral, Rat</td>
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<td>THIRAM</td>
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</tr>
<tr>
<td>ATE oral (mg/kg)</td>
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<td>500.0</td>
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</table>

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.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Acute toxicity - oral</th>
<th>Notes (oral LD₅₀)</th>
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<tr>
<td>CHLORINATED PARAFFIN (C14-17)</td>
<td></td>
<td>LD₅₀ &gt;2000 mg/kg, Oral, Rat</td>
</tr>
</tbody>
</table>
THIOFLEX 600 GUN GRADE GREY

Acute toxicity - fish  \( LC_{50}, 96 \text{ hours} > 5000 \text{ mg/l, Fish} \)
Acute toxicity - aquatic invertebrates  \( EC_{50}, 48 \text{ hours} = 0.006 \text{ mg/l, Daphnia magna} \)
Chronic aquatic toxicity  \( 100 \)

LIQUID POLYSULFIDE POLYMER

Acute toxicity - fish  \( LC_{50}, 96 \text{ hours} = 320 \text{ mg/l, Pimephales promelas (Fat-head Minnow)} \)
Acute toxicity - aquatic invertebrates  \( EC_{50}, 48 \text{ hours} = 32 \text{ mg/l, Daphnia magna} \)
Acute toxicity - aquatic plants  \( EC_{50}, 72 \text{ hours} = 17 \text{ mg/l, Selenastrum capricornutum} \)

THIRAM

Acute aquatic toxicity  \[ LE(C)_{50} < 0.1 < L(E)C_{50} \leq 1 \]
M factor (Acute)  \( 10 \)
Chronic aquatic toxicity  \( 10 \)

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  \( BCF: < 2000 \text{ L/kg,} \)

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 | 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 MARPOL 73/78 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


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**

**General Information**
For professional users only.

**Revision comments**
NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date**
07/12/2015

**Revision**
6

**Supersedes date**
08/04/2015

**Risk phrases in full**
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.

**Hazard statements in full**
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


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

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<th>Ingredient</th>
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<td>Lact. - H362</td>
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<td>Aquatic Chronic 1 - H410</td>
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<td>CAS number: 1313-13-9</td>
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<tr>
<td>EC number: 215-202-6</td>
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<tr>
<td>STOT RE 2 - H373</td>
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<td>CALCIUM CARBONATE (STEARATE COATED)</td>
<td>10-30%</td>
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<tr>
<td>CAS number: 471-34-1</td>
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</tr>
<tr>
<td>EC number: 207-439-9</td>
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</table>

Classification (67/548/EEC or 1999/45/EC)
Not Classified
THIOFLEX 600 CURING AGENT

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<th>THIRAM</th>
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<tbody>
<tr>
<td>CAS number: 137-26-8</td>
<td>EC number: 205-286-2</td>
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<td>M factor (Acute) = 10</td>
<td>M factor (Chronic) = 10</td>
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<td>Acute Tox. 4 - H302</td>
<td>Xn;R20/22,R48/22 R43 Xi;R36/38 N;R50/53</td>
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<tr>
<td>Acute Tox. 4 - H332</td>
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<tr>
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<td>Eye Irrit. 2 - H319</td>
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<td>Aquatic Acute 1 - H400</td>
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<tr>
<td>Aquatic Chronic 1 - H410</td>
<td></td>
</tr>
</tbody>
</table>

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

General information
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Inhalation
Remove affected person from source of contamination.

Ingestion
Rinse mouth thoroughly with water. Do Not induce vomiting. Get medical attention immediately.

Skin contact
Wash immediately with copious quantities of water. Remove contaminated clothing immediately. Obtain medical advice if skin orders develop.

Eye contact
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

General information
In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death.

Inhalation
Irritation of nose, throat and airway.

Ingestion
May cause nausea, headache, dizziness and intoxication. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.

Skin contact
May cause sensitisation by skin contact.

Eye contact
Irritation of eyes and mucous membranes.

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

Notes for the doctor
No specific recommendations. If in doubt, get medical attention promptly.

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/m³
Short-term exposure limit (15-minute): WEL 2 mg/m³

CALCIUM CARBONATE (STEARATE COATED)

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ Inhal. Dust 4 mg/m³ Resp. Dust

WEL = Workplace Exposure Limit

CHLORINATED PARAFFIN (C14-17) (CAS: 85535-85-9)
THIOFLEX 600 CURING AGENT

DNEL

Industry - Inhalation; Long term systemic effects: 1.6 mg/m³
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/m³
Consumer - Dermal; Long term systemic effects: 28.75 mg/kg/day

PNEC

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

8.2. Exposure controls

Protective equipment

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

Appearance

Coloured paste.

Colour

Grey.

Odour

Mercaptan

Relative density

Not determined.

Solubility(ies)

Insoluble in water.

9.2. Other information

Other information

Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability
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


Medical considerations

No information available.

Toxicological information on ingredients.

CHLORINATED PARAFFIN (C14-17)

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >2000 mg/kg, Oral, Rat

MANGANESE DIOXIDE
THIOFLEX 600 CURING AGENT

ATE oral (mg/kg) 500.0

Acute toxicity - inhalation
ATE inhalation (dusts/mists mg/l) 1.5

THIRAM

Acute toxicity - oral
Acute toxicity oral (LD₅₀ 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 LC₅₀, 96 hours: >5000 mg/l, Fish
Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.006 mg/l, Daphnia magna
Chronic aquatic toxicity M factor (Chronic) 100

THIRAM

Acute aquatic toxicity LE(C)₅₀ 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 MARPOL 73/78 and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  Not relevant.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Guidance  Workplace Exposure Limits EH40.

15.2. Chemical safety assessment
THIOFLEX 600 CURING AGENT

No chemical safety assessment has been carried out.

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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.