

# SAFETY DATA SHEET THIOFLEX 555 BASE

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

1.1. Product identifier

Product name THIOFLEX 555 BASE

Product number A249200UK9

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 Not Classified

**Environmental hazards** Aquatic Chronic 3 - H412

**Environmental** The product contains a substance which is harmful to aquatic organisms and which may

cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Hazard statements H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with national regulations.

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

## **THIOFLEX 555 BASE**

LIQUID POLYSULFIDE POLYMER 60-100%

CAS number: 68611-50-7

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

Aquatic Chronic 3 - H412 R52/53.

TITANIUM DIOXIDE 10-30%

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

Not Classified -

SOLVENT NAPHTHA 1-5%

CAS number: 64742-95-6 EC number: 265-199-0 REACH registration number: 01-

2119455851-35

Classification

Flam. Liq. 3 - H226

STOT SE 3 - H335, H336 Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

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. 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.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash

skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

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. Get medical attention if

symptoms are severe or persist after washing.

# 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.

**Skin contact** Skin irritation.

**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

## **THIOFLEX 555 BASE**

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 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 Absorb in vermiculite, dry sand or earth and place into containers. 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

## THIOFLEX 555 BASE

# Occupational exposure limits

#### TITANIUM DIOXIDE

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

## **SOLVENT NAPHTHA**

Long-term exposure limit (8-hour TWA): WEL 19 ppm

WEL = Workplace Exposure Limit

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

**DNEL** Industry - Inhalation; Long term local effects: 10 mg/m³

Consumer - Oral; Long term systemic effects: 700 mg/kg/day

PNEC - Fresh water; 0.127 mg/l

- Sediment (Freshwater); >=1000 mg/kg

- Marine water; 1 mg/l

- Sediment (Marinewater); >= 100 mg/kg

- Soil; 100 mg/kg - STP; 100 mg/l

## SOLVENT NAPHTHA (CAS: 64742-95-6)

**DNEL** Professional - Dermal; systemic effects: 25 mg/kg/day

Professional - Inhalation; systemic effects: 150 mg/m³ Consumer - Oral; systemic effects: 11 mg/kg/day Consumer - Inhalation; systemic effects: 32 mg/m³ Consumer - Dermal; systemic effects: 11 mg/kg/day

## 8.2. Exposure controls

#### Protective equipment





Appropriate engineering controls

COLLIOIS

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. Nitrile rubber. Rubber (natural, latex).

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. Organic vapour filter.

Environmental exposure

controls

Refer to section 6 or 12.

## **SECTION 9: Physical and Chemical Properties**

# **THIOFLEX 555 BASE**

# 9.1. Information on basic physical and chemical properties

**Appearance** Paste.

Colour White/off-white.

Odour Mercaptan

Odour threshold Not determined.

**pH** Not applicable.

Melting point Not applicable.

**Initial boiling point and range** Not determined.

Flash point 67°C CC (Closed cup).

**Evaporation rate** Not determined.

Flammability (solid, gas) Not applicable.

Vapour pressure Not determined.

Vapour density Not determined.

Relative density 1.49 @ 20°C

Bulk density Not applicable.

Solubility(ies) Insoluble in water.

Partition coefficient Not applicable.

**Auto-ignition temperature** Not determined.

Viscosity Highly viscous

**Explosive properties** Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information Not determined.

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

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

10.2. Chemical stability

**Stability** Hazardous polymerisation will not occur.

10.3. Possibility of hazardous reactions

Possibility of hazardous

No potentially hazardous reactions known.

reactions

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. Isocyanates. Epoxides. Amines. Strong alkalis.

#### 10.6. Hazardous decomposition products

# **THIOFLEX 555 BASE**

Hazardous decomposition

products

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

## SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Toxicological effects** This product has low toxicity.

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 symptoms

Skin irritation.

Medical considerations

No information available.

## Toxicological information on ingredients.

## LIQUID POLYSULFIDE POLYMER

Acute toxicity - oral

Notes (oral LD₅₀)

LD₅o >3000 mg/kg, Oral, Rat

## **SOLVENT NAPHTHA**

Acute toxicity - oral

Acute toxicity oral (LD50

3,592.0

mg/kg)

**Species** Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 3,160.0

mg/kg)

**Species** Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation

6.2

(LC50 vapours mg/l)

**Species** Rat

ATE inhalation (vapours

6.2

mg/l)

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

## **THIOFLEX 555 BASE**

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Skin sensitisation

**Skin sensitisation**Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

Carcinogenicity

**Carcinogenicity** There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not determined.

Target organs Respiratory system, lungs

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

**Aspiration hazard** May be fatal if swallowed and enters airways.

# 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

Ecological information on ingredients.

## LIQUID POLYSULFIDE POLYMER

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

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 32 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC<sub>50</sub>, 72 hours: 17 mg/l, Selenastrum capricornutum

**SOLVENT NAPHTHA** 

Acute toxicity - fish LL50, 96 hours, 96 hours: 9.2 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EL50, 48 hours, 48 hours: 3.2 mg/l, Daphnia magna

## THIOFLEX 555 BASE

Acute toxicity - aquatic

NOELR, 72 hours, 72 hours: 1 mg/l, Selenastrum capricornutum

plants

12.2. Persistence and degradability

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

Estimated value.

Ecological information on ingredients.

LIQUID POLYSULFIDE POLYMER

Persistence and

degradability

The product is not readily biodegradable.

**SOLVENT NAPHTHA** 

Biodegradation water - Degradation (%) 78: 28 days

The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not applicable.

Ecological information on ingredients.

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

Mobility Soil mobility is poor.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

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

assessment

Ecological information on ingredients.

LIQUID POLYSULFIDE POLYMER

assessment

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

**SOLVENT NAPHTHA** 

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

assessment

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

## THIOFLEX 555 BASE

#### 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

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

# 14.2. UN proper shipping name

Not applicable.

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

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

# Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

## SECTION 15: Regulatory information

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

National regulations The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as

amended).

**EU legislation** Commission Regulation (EU) No 453/2010 of 20 May 2010.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

**Guidance** Workplace Exposure Limits EH40.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

# **THIOFLEX 555 BASE**

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

**Revision comments** This is first issue.

Revision date 05/07/2015

Revision 1

SDS number 13078

Risk phrases in full R10 Flammable.

R37 Irritating to respiratory system.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment

R51/53 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.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

Hazard statements in full H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H411 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 555 HARDENER

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

1.1. Product identifier

Product name THIOFLEX 555 HARDENER

Product number A2492001UK9

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 Elicitation - EUH208 Lact. - H362

Environmental hazards Aquatic Chronic 1 - H410

2.2. Label elements

**Pictogram** 



Signal word Warning

Hazard statements EUH208 Contains THIRAM. May produce an allergic reaction.

H362 May cause harm to breast-fed children.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements** P260 Do not breathe vapour/spray.

P264 Wash contaminated skin thoroughly after handling.

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with national regulations.

# **THIOFLEX 555 HARDENER**

Contains CHLORINATED PARAFFIN (C14-17)

Supplementary precautionary

P201 Obtain special instructions before use.

statements

P263 Avoid contact during pregnancy/while nursing.
P270 Do not eat, drink or smoke when using this product.

P308+P313 IF exposed or concerned: Get medical advice/attention.

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

CHLORINATED PARAFFIN (C14-17) 30-60%

CAS number: 85535-85-9 EC number: 287-477-0 REACH registration number: 01-

2119519269-33-xxxx

M factor (Chronic) = 100

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

Lact. - H362 N;R50/53. R64,R66.

Aquatic Chronic 1 - H410

CALCIUM CARBONATE 30-60%

CAS number: 1317-65-3

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

Not Classified -

MANGANESE DIOXIDE 1-5%

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

Classification

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

SOLVENT NAPHTHA 1-5%

CAS number: 64742-95-6 EC number: 265-199-0 REACH registration number: 01-

2119455851-35

Classification

Flam. Liq. 3 - H226

STOT SE 3 - H335, H336

Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

## **THIOFLEX 555 HARDENER**

THIRAM <1%

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

Acute Tox. 4 - H302 Xn;R20/22,R48/22 R43 Xi;R36/38 N;R50/53

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Acute Tox. 4 - H332

POTASSIUM HYDROXIDE <1%

CAS number: 1310-58-3 EC number: 215-181-3

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

Acute Tox. 4 - H302 C;R35 Xn;R22

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

SODIUM HYDROXIDE <1%

CAS number: 1310-73-2 EC number: 215-185-5

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

Skin Corr. 1A - H314 C;R35

Eye Dam. 1 - H318

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 The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

**Inhalation** Irritation of nose, throat and airway.

## **THIOFLEX 555 HARDENER**

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.

Hazardous combustion

products

Oxides of carbon. Hydrogen chloride (HCI). 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 Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste to

licensed waste disposal site in accordance with the requirements of the local Waste Disposal

Authority.

#### 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

# **THIOFLEX 555 HARDENER**

#### 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

#### MANGANESE DIOXIDE

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

#### **SOLVENT NAPHTHA**

Long-term exposure limit (8-hour TWA): WEL 19 ppm

#### POTASSIUM HYDROXIDE

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

#### **SODIUM HYDROXIDE**

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

WEL = Workplace Exposure Limit

## 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

## SOLVENT NAPHTHA (CAS: 64742-95-6)

**DNEL** Professional - Dermal; systemic effects: 25 mg/kg/day

Professional - Inhalation; systemic effects: 150 mg/m³ Consumer - Oral; systemic effects: 11 mg/kg/day Consumer - Inhalation; systemic effects: 32 mg/m³ Consumer - Dermal; systemic effects: 11 mg/kg/day

SODIUM HYDROXIDE (CAS: 1310-73-2)

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

#### 8.2. Exposure controls

# Protective equipment





Appropriate engineering controls

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)

## **THIOFLEX 555 HARDENER**

**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 Liquid.

Colour Black.

Initial boiling point and range

Odour threshold Not determined.

pH Not applicable.

Melting point Not applicable.

Flash point 100°C CC (Closed cup).

Not determined.

**Evaporation rate** Not determined.

Flammability (solid, gas) Not applicable.

Vapour pressure Not determined.

Vapour density Not determined.

Relative density 1.74 @ 20°C

Bulk density Not applicable.

Solubility(ies) Insoluble in water.

Partition coefficient Not applicable.

**Auto-ignition temperature** Not determined.

**Explosive properties** Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information Not available.

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

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

#### 10.2. Chemical stability

## **THIOFLEX 555 HARDENER**

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

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

products

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

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapours. Hydrogen chloride (HCI).

# SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Acute toxicity - oral

**ATE oral (mg/kg)** 11,334.01

Acute toxicity - inhalation

ATE inhalation (dusts/mists

mg/l)

34.46

**Inhalation** Irritating to respiratory system.

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

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

**Eye contact** Irritating to eyes.

Acute and chronic health

hazards

May cause sensitisation by skin contact. Irritating to eyes. Gas or vapour may irritate the

respiratory system.

Route of entry Inhalation Ingestion.

Target organs Eyes Skin Respiratory system, lungs

Medical symptoms Skin irritation. Diarrhoea. Upper respiratory irritation. Nausea, vomiting.

Medical considerations No information available.

#### Toxicological information on ingredients.

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

Acute toxicity - oral

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

MANGANESE DIOXIDE

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - inhalation

# **THIOFLEX 555 HARDENER**

ATE inhalation (dusts/mists mg/l)

**SOLVENT NAPHTHA** 

Acute toxicity - oral

Acute toxicity oral (LD50

3,592.0

1.5

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> 3,160.0

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation

(LC<sub>50</sub> vapours mg/l)

6.2

**Species** Rat

ATE inhalation (vapours

mg/l)

6.2

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye

damage/irritation

Based on available data the classification criteria are not met.

Respiratory sensitisation

**Respiratory sensitisation** Not sensitising.

Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

Germ cell mutagenicity

**Genotoxicity - in vitro**Based on available data the classification criteria are not met.

Carcinogenicity

**Carcinogenicity** There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not determined.

Target organs Respiratory system, lungs

Specific target organ toxicity - repeated exposure

# **THIOFLEX 555 HARDENER**

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

**Aspiration hazard** May be fatal if swallowed and enters airways.

**THIRAM** 

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

1,800.0

**Species** 

es Rat

ATE oral (mg/kg) 500.0

Carcinogenicity

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

SECTION 12: Ecological Information

**Ecotoxicity** The product contains substances which are toxic to aquatic organisms and which may cause

long-term adverse effects in the aquatic environment.

12.1. Toxicity

**Toxicity** Very toxic to aquatic organisms.

Ecological information on ingredients.

**CHLORINATED PARAFFIN (C14-17)** 

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

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 0.006 mg/l, Daphnia magna

Chronic aquatic toxicity

M factor (Chronic) 100

**SOLVENT NAPHTHA** 

Acute toxicity - fish LL50, 96 hours, 96 hours: 9.2 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EL50, 48 hours, 48 hours: 3.2 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

NOELR, 72 hours, 72 hours: 1 mg/l, Selenastrum capricornutum

Estimated value.

THIRAM

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.1 < L(E)C50 \le 1$ 

M factor (Acute) 10

**Chronic aquatic toxicity** 

## **THIOFLEX 555 HARDENER**

M factor (Chronic) 10

12.2. Persistence and degradability

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

Ecological information on ingredients.

**SOLVENT NAPHTHA** 

**Biodegradation** water - Degradation (%) 78: 28 days

The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not applicable.

Ecological information on ingredients.

**CHLORINATED PARAFFIN (C14-17)** 

Bioaccumulative potential BCF: < 2000 L/kg,

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

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

assessment

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

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

assessment

**SOLVENT NAPHTHA** 

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

assessment

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.

# **THIOFLEX 555 HARDENER**

# **SECTION 14: Transport information**

14.1. UN number

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

## 14.2. UN proper shipping name

Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS THIRAM,

(ADR/RID)

(IMDG)

CHLORINATED PARAFFIN (C14-17))

Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS THIRAM,

CHLORINATED PARAFFIN (C14-17))

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

CHLORINATED PARAFFIN (C14-17))

Proper shipping name (ADN)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS THIRAM,

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 Ш

Ш IMDG packing group

ADN packing group Ш

ICAO packing group Ш

# 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



# 14.6. Special precautions for user

**EmS** F-A, S-F

# **THIOFLEX 555 HARDENER**

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number 90

(ADR/RID)

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 Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

#### SECTION 15: Regulatory information

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

National regulations The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as

amended).

**EU legislation** Commission Regulation (EU) No 453/2010 of 20 May 2010.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

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.

**Revision comments** This is first issue.

Revision date 05/07/2015

Revision 1

SDS number 13079

## **THIOFLEX 555 HARDENER**

Hazard statements in full EUH208 Contains THIRAM. May produce an allergic reaction.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H362 May cause harm to breast-fed children.

H373 May cause damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs (Liver) through prolonged or repeated exposure if swallowed.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic 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.