SAFETY DATA SHEET
SX POLYSULPHIDE SEALANT

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name
SX POLYSULPHIDE SEALANT

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Sealant.

1.3. Details of the supplier of the safety data sheet

Supplier
Siroflex Ltd.
Dodworth Business Park
Dodworth, Barnsley
South Yorkshire, S75 3SP
Tel. (+44) 01226 771600
Fax. (+44) 01226 771601
www.siroflex.co.uk info@siroflex.co.uk

1.4. Emergency telephone number

(+44) 01226 771600 (office hours only)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)
Physical and Chemical Hazards: Not classified. Human health: Repr. 1B - H360D Environment
Aquatic Chronic 3 - H412

Classification (1999/45/EEC)
Repr. Cat. 2; R61. R52/53.

Risk Phrases
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61 May cause harm to the unborn child.

Safety Phrases
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S53 Avoid exposure - obtain special instructions before use.
S60 This material and its container must be disposed of as hazardous waste.
P11 Restricted to professional users.

Human health
Contains a substance/a group of substances which may cause harm to the unborn child. Environment
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

Contains SODIUM PEROXOBORATE Label In Accordance With (EC) No. 1272/2008

Signal Word Danger

Hazard Statements

H360D May damage the unborn child.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P201 Obtain special instructions before use.
P308+313 IF exposed or concerned: Get medical advice/attention.
P501 Dispose of contents/container as hazardous or special waste.

Supplementary Precautionary Statements

P202 Do not handle until all safety precautions have been read and understood
P273 Avoid release to the environment.

Supplemental label information

2.3. Other hazards

P281 Use personal protective equipment as required. P405 Store locked up.
RCH002 Restricted to professional users.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>LIQUID POLYSULPHIDE POLYMER with thiol end groups (MW &gt;1800)</th>
<th>10 - 25%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.: 68611-50-7</td>
<td>EC No.:</td>
</tr>
</tbody>
</table>

Classification (EC 1272/2008)
Aquatic Chronic 3 - H412

Classification (67/548/EEC)
R52/53.

HYDROGENATED TERPHENYL

<table>
<thead>
<tr>
<th>1 - 5%</th>
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</thead>
<tbody>
<tr>
<td>CAS-No.: 61788-32-7</td>
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</tbody>
</table>

Classification (EC 1272/2008)
Aquatic Chronic 4 - H413

Classification (67/548/EEC)
R53.
CALCIUM OXIDE 1 - 5%

CAS-No.: 1305-78-8  EC No.: 215-138-9

Classification (EC 1272/2008)
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
STOT SE 3 - H335

Classification (67/548/EEC)
Xi;R37/38,R41.

SODIUM PEROXOBORATE < 1%

CAS-No.: 10332-33-9  EC No.: 231-556-4

Classification (EC 1272/2008)
Ox. Liq. 2 - H272
Acute Tox. 4 - H302
Eye Dam. 1 - H318
Repr. 1A - H360Df
STOT SE 3 - H335

Classification (67/548/EEC)
Repr. Cat. 1;R61.
Xn;R22.
Repr. Cat. 3;R62.
Xi;R37,R41.
O;R8.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition Comments
Polysulphide polymer, with fillers, plasticiser and auxiliaries.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information
In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Inhalation
Fresh air. Get medical attention if any discomfort continues. Ingestion
Immediately rinse mouth and drink plenty of water (200-300 ml). Give milk instead of water if readily available. 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 any discomfort continues.

Eye contact
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation.
No specific symptoms noted. Ingestion
May cause discomfort if swallowed.

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

Treat Symptomatically

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
Water spray, foam, dry powder or carbon dioxide. Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

In case of fire, toxic gases may be formed. Carbon monoxide (CO). Carbon dioxide (CO2). Sulphurous gases (SOx).

5.3. Advice for firefighters

Special Fire Fighting Procedures

Keep run-off water out of sewers and water sources. Dike for water control. Protective equipment for fire-fighters

Wear self contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing.

6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

DO NOT touch spilled material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Flush area with water. Do not contaminate water sources or sewer.

6.4. Reference to other sections

For personal protection, see section 8. See section 11 for additional information on health hazards. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Do not handle broken packages without protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2. Usage Description

Gunnable sealant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROGENATED TERPHENYL</td>
<td></td>
<td></td>
<td>0.5 ppm</td>
<td>4.8 mg/m3</td>
</tr>
</tbody>
</table>

Ingredient Comments

WEL = Workplace Exposure Limits

No DNEL or PNEC limits available.
8.2. Exposure controls

Protective equipment

Engineering measures
Well-ventilated area. Respiratory equipment
No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand protection
Use protective gloves. CEN EN 420 - PVC. Eye protection
Wear approved safety goggles. Other Protection
Wear appropriate clothing to prevent any possibility of skin contact. Hygiene measures
Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour</td>
<td>Mercaptan</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available for the product. Melting point (°C) 1.69 - 1.72 @20°C</td>
</tr>
<tr>
<td>Vapour density (air=1)</td>
<td>Not applicable. Vapour pressure</td>
</tr>
<tr>
<td>Viscosity</td>
<td>7, 000 - 14, 000 Ps @ 20°C</td>
</tr>
<tr>
<td>Decomposition temperature (°C)</td>
<td>No data available for the product.</td>
</tr>
<tr>
<td>Odour Threshold, Lower</td>
<td>No data available for the product.</td>
</tr>
<tr>
<td>Odour Threshold, Upper</td>
<td>No data available for the product.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Auto Ignition Temperature (°C)</td>
<td>No data available for the product.</td>
</tr>
<tr>
<td>Flammability Limit - Lower(%)</td>
<td>No data available for the product.</td>
</tr>
<tr>
<td>Flammability Limit - Upper(%)</td>
<td>No data available for the product.</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

9.2 Other information
SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
No specific reactivity hazards associated with this product.

10.2. Chemical stability
Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions
Not relevant
Hazardous Polymerisation
Will not polymerise.

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

10.5. Incompatible materials
Materials To Avoid
Strong oxidising substances.

10.6. Hazardous decomposition products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Toxic Dose 1 - LD 50
Sodium peroxoborate: 890 - 1300 mg/kg (oral rat)
Toxic Dose 2 - LD 50
Sodium peroxoborate: > 2000 mk/kg (dermal rabbit)
Toxic Conc. - LC 50
Sodium peroxoborate: > 0.074 mg/l/4h (inh-rat)

Toxicological information
The product has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly.

Skin Corrosion/Irritation:
Based on available data the classification criteria are not met.

Respiratory or skin sensitisation:
Based on available data the classification criteria are not met.

Germ cell mutagenicity:
Does not contain any substances known to be mutagenic.

Carcinogenicity:
Does not contain any substances known to be carcinogenic.

Reproductive Toxicity:
May damage the unborn child.

Aspiration hazard:
Not relevant, due to the form of the product. Inhalation
Not relevant at normal room temperatures. When heated, toxic vapours may be formed.
Ingestion
May cause stomach pain or vomiting.
Skin contact
Prolonged and frequent contact may cause redness and irritation.
Eye contact
May cause irritation to eyes.
Specific effects
Contains a substance/a group of substances with possible risk of harm to the unborn child and with possible risk of impaired fertility.
SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.1. Toxicity
LC 50, 96 Hrs, Fish mg/l       Polysulphide polymer: 1000
EC 50, 48 Hrs, Daphnia, mg/l   Polysulphide polymer: 1160
Acute Toxicity - Microorganisms
EC50 Polysulphide polymer (17 hrs): 9290 mg/l (Pseudomaonas putida)

12.2. Persistence and degradability
Degradability
Product contains: Polysulphide polymer: which is: Poorly biodegradable.

12.3. Bioaccumulative potential
Bioaccumulative potential
No data available on bioaccumulation.
Partition coefficient       Not applicable.

12.4. Mobility in soil
Mobility:
The product is insoluble in water.

12.5. Results of PBT and vPvB assessment
This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects
None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Dispose of waste and residues in accordance with local authority requirements. Waste Class
H6 - Toxic
H14 - Ecotoxic
Recommended EWC Code 08 04 09*

SECTION 14: TRANSPORT INFORMATION

General
The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number
No information required.

14.2. UN proper shipping name
No information required.

14.3. Transport hazard class(es)
No information required.

14.4. Packing group
No information required.

14.5. Environmental hazards
14.6. Special precautions for user

No information required.

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

No information required.

SECTION 15: REGULATORY INFORMATION

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

UK Regulatory References

Chemicals (Hazard Information & Packaging) Regulations. Guidance Notes
Workplace Exposure Limits EH40. EU Legislation

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

Revised sections: 2, 3. New format as required by REACH Annex II Revision Date 02/01/13
Supersedes date 19/07/06
SDS No. 10207

Risk Phrases In Full

R8 Contact with combustible material may cause fire. Harmful if swallowed.
R22 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Irritating to respiratory system and skin.
R52/53 Irritating to respiratory system.
R37 May cause harm to the unborn child.
R61 May cause long-term adverse effects in the aquatic environment. Possible risk of impaired fertility.
R53 Risk of serious damage to eyes.
R62
R41 Causes serious eye damage. Causes skin irritation.

Hazard Statements In Full

H318 Harmful to aquatic life with long lasting effects.
H315 May cause long lasting harmful effects to aquatic life. May cause respiratory irritation.
H302 May damage the unborn child and suspected of damaging fertility. May damage the unborn child.
H412 May intensify fire; oxidiser.
H413
H335
H360DF H360D H272

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in a process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.