SAFETY DATA SHEET
EPOXY THIXOTROPIC INJECTION GROUT HARDENER

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

1.1. Product identifier

Product name: EPOXY THIXOTROPIC INJECTION GROUT HARDENER

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

Identified uses: Epoxy Resin (Hardener Component)

1.3. Details of the supplier of the safety data sheet

Supplier: PAREX Ltd
Holly Lane Industrial Estate
Atherstone
Warwickshire
CV9 2QZ
Tel: +44 (0)1827 711755
(Mon-Fri 08:30-16:30)
Fax: +44 (0)1827 711330
sds@parex.co.uk

1.4. Emergency telephone number

Emergency telephone: +44 (0)1827 711755 (Mon-Fri 08:30 - 16:30)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards: Not Classified


Environmental hazards: Aquatic Chronic 3 - H412

2.2. Label elements

Pictogram

Signal word: Danger

Hazard statements:
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements

P260 Do not breathe vapour/spray.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

Contains

AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION, BENZYL ALCOHOL, 2-PIPERAZIN-1-YLETHYLAMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL, PHENOL, STYRENATED

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>AMINES, POLYETHYLENEPOLY-, TRIETHYLENETETRAMINE FRACTION</th>
<th>50 - 100%</th>
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<tbody>
<tr>
<td>CAS number: 90640-67-8</td>
<td>EC number: 292-588-2</td>
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<tr>
<td>REACH registration number: 01-2119487919-13-0000</td>
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</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 - H302</td>
</tr>
<tr>
<td>Acute Tox. 4 - H312</td>
</tr>
<tr>
<td>Skin Corr. 1B - H314</td>
</tr>
<tr>
<td>Eye Dam. 1 - H318</td>
</tr>
<tr>
<td>Skin Sens. 1 - H317</td>
</tr>
<tr>
<td>Aquatic Chronic 3 - H412</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2-PIPERAZIN-1-YLETHYLAMINE</th>
<th>10 - 25%</th>
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<tbody>
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<td>CAS number: 140-31-8</td>
<td>EC number: 205-411-0</td>
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<td>REACH registration number: 01-2119471486-30-0000</td>
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</table>

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 - H302</td>
</tr>
<tr>
<td>Acute Tox. 3 - H311</td>
</tr>
<tr>
<td>Skin Corr. 1B - H314</td>
</tr>
<tr>
<td>Eye Dam. 1 - H318</td>
</tr>
<tr>
<td>Skin Sens. 1 - H317</td>
</tr>
<tr>
<td>Repr. 2 - H361</td>
</tr>
<tr>
<td>STOT RE 1 - H372</td>
</tr>
<tr>
<td>Aquatic Chronic 3 - H412</td>
</tr>
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</table>
EPOXY THIXOTROPIC INJECTION GROUT HARDENER

<table>
<thead>
<tr>
<th>BENZYL ALCOHOL</th>
<th>10 - 25%</th>
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</thead>
<tbody>
<tr>
<td>CAS number: 100-51-6</td>
<td>EC number: 202-859-9</td>
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</table>

**Classification**
- Acute Tox. 4 - H302
- Acute Tox. 4 - H332
- Eye Irrit. 2 - H319

<table>
<thead>
<tr>
<th>PHENOL, STYRENATED</th>
<th>2.5 - 10%</th>
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</thead>
<tbody>
<tr>
<td>CAS number: 61788-44-1</td>
<td>EC number: 262-975-0</td>
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**Classification**
- Skin Irrit. 2 - H315
- Skin Sens. 1 - H317
- Aquatic Chronic 2 - H411

<table>
<thead>
<tr>
<th>2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL</th>
<th>2.5 - 10%</th>
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</thead>
<tbody>
<tr>
<td>CAS number: 90-72-2</td>
<td>EC number: 202-013-9</td>
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</table>

**Classification**
- Acute Tox. 4 - H302
- Skin Irrit. 2 - H315
- Eye Irrit. 2 - H319

The full text for all hazard statements is displayed in Section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**
Rinse immediately with plenty of water. While rinsing, remove clothing not adhering to the affected area.

**Inhalation**
Remove person to fresh air and keep comfortable for breathing. Get medical attention if any discomfort continues.

**Ingestion**
Give plenty of water to drink. Get medical attention immediately. Remove person to fresh air and keep comfortable for breathing.

**Skin contact**
Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

**Eye contact**
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

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

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

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**
### EPOXY THIXOTROPIC INJECTION GROUT HARDENER

**Unsuitable extinguishing media**
Do not use water with a full water jet.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards**
Formation of toxic gases is possible during heating or in case of fire.

**Hazardous combustion products**
Toxic gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**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**
Do not discharge into drains or watercourses or onto the ground.

#### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up**
Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely. Ensure adequate ventilation.

#### 6.4. Reference to other sections

**Reference to other sections**
Collect and dispose of spillage as indicated in Section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions**
Observe good chemical hygiene practices. Provide adequate ventilation.

**Advice on general occupational hygiene**
Wash at the end of each work shift and before eating, smoking and using the toilet.

#### 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. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Keep away from food, drink and animal feeding stuffs.

#### 7.3. Specific end use(s)

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

#### 8.2. Exposure controls

**Protective equipment**

- **Eye/face protection**
  Wear tight-fitting, chemical splash goggles or face shield. Ensure that an eye wash station is close at hand.
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Hand protection
Wear protective gloves made of the following material: Nitrile rubber. Viton rubber (fluoro rubber). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Thickness: At least 0.5 mm

Other skin and body protection
Wear protective clothing.

Respiratory protection
Combination filter A-P2

Environmental exposure controls
Keep container tightly sealed when not in use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Clear, yellowish liquid.

Odour
Amine.

Melting point
Not determined.

Initial boiling point and range
>100°C

Flash point
>100°C

Upper/lower flammability or explosive limits
Lower flammable/explosive limit: 1.3 Vol % Upper flammable/explosive limit: 13.0 Vol %

Vapour pressure
0.1 hPa @ 20°C

Bulk density
1.003 g/cm³

Solubility(ies)
Immiscible with water.

Auto-ignition temperature
140°C

Viscosity
30 mPa s @ 23°C

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stability
Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions
None known.

10.4. Conditions to avoid

10.5. Incompatible materials

Materials to avoid
Avoid contact with strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products
Thermal decomposition or combustion products may include the following substances: Toxic and/or corrosive gases and/or vapours.

SECTION 11: Toxicological information
EPOXY THIXOTROPIC INJECTION GROUT HARDENER

11.1. Information on toxicological effects

Toxicological effects Harmful if swallowed or in contact with skin.
Acute toxicity - oral 689.66
ATE oral (mg/kg)

Acute toxicity - inhalation
ATE inhalation (gases ppm) 45,000.0
ATE inhalation (vapours mg/l) 110.0
ATE inhalation (dusts/mists mg/l) 15.0

Skin corrosion/irritation Causes severe burns.

Serious eye damage/irritation Causes serious eye damage.

Skin sensitisation May cause an allergic skin reaction.

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

Reproductive toxicity Suspected of damaging fertility or the unborn child.
Reproductive toxicity - fertility

Specific target organ toxicity - single exposure Based on available data the classification criteria are not met.
STOT - single exposure

Specific target organ toxicity - repeated exposure Causes damage to organs through prolonged or repeated exposure.
STOT - repeated exposure

Aspiration hazard Based on available data, the classification criteria are not met.
Aspiration hazard

SECTION 12: Ecological Information

Ecotoxicity Harmful to aquatic life.

12.1. Toxicity

Toxicity The product contains substances which are harmful to aquatic organisms. Do not discharge into drains, water courses or onto the ground.

12.2. Persistence and degradability

Persistence and degradability No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential No information available.

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

<table>
<thead>
<tr>
<th>General information</th>
<th>Dispose of waste product or used containers in accordance with local regulations</th>
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</thead>
<tbody>
<tr>
<td>Disposal methods</td>
<td>Dispose of waste via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>Waste class</td>
<td>EWC 08 00 00 EWC 08 02 00 EWC 08 02 99</td>
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SECTION 14: Transport information

14.1. UN number

<table>
<thead>
<tr>
<th>UN No. (ADR/RID)</th>
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</thead>
<tbody>
<tr>
<td>UN No. (IMDG)</td>
<td>2735</td>
</tr>
<tr>
<td>UN No. (ADN)</td>
<td>2735</td>
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</tbody>
</table>

14.2. UN proper shipping name

<table>
<thead>
<tr>
<th>Proper shipping name (ADR/RID)</th>
<th>AMINES, LIQUID, CORROSIVE, N.O.S., (TRIETHYLENETETRAMINE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name (IMDG)</td>
<td>AMINES, LIQUID, CORROSIVE, N.O.S., (TRIETHYLENETETRAMINE)</td>
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</table>

14.3. Transport hazard class(es)

<table>
<thead>
<tr>
<th>ADR/RID class</th>
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<tr>
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<tr>
<td>IMDG class</td>
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<td>ICAO class/division</td>
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<tr>
<td>ADN class</td>
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Transport labels

14.4. Packing group

<table>
<thead>
<tr>
<th>ADR/RID packing group</th>
<th>II</th>
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<tbody>
<tr>
<td>IMDG packing group</td>
<td>II</td>
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<tr>
<td>ADN packing group</td>
<td>II</td>
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</tbody>
</table>

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

<table>
<thead>
<tr>
<th>EmS</th>
<th>F-A, S-B</th>
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<tbody>
<tr>
<td>ADR transport category</td>
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</tbody>
</table>
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Hazard Identification Number (ADR/RID) 80

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations

EU legislation

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by QSHE Manager
Revision date 24/05/2018
Supersedes date 13/10/2017
SDS number 21016

Hazard statements in full
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
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.
H361 Suspected of damaging fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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 any 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.