SAFETY DATA SHEET
EPOXY MORTAR E FG (HARDENER COMPONENT)

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

1.1. Product identifier
Product name: EPOXY MORTAR E FG (HARDENER COMPONENT)

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.
EPOXY MORTAR E FG (HARDENER COMPONENT)

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-YETHYLAMINE, 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>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 90640-67-8</td>
<td>EC number: 292-588-2</td>
</tr>
</tbody>
</table>

Classification

Acute Tox. 4 - H302
Acute Tox. 4 - H312
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Skin Sens. 1 - H317
Aquatic Chronic 3 - H412

<table>
<thead>
<tr>
<th>2-PIPERAZIN-1-YETHYLAMINE</th>
<th>10 - 25%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 140-31-8</td>
<td>EC number: 205-411-0</td>
</tr>
</tbody>
</table>

Classification

Acute Tox. 4 - H302
Acute Tox. 3 - H311
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Skin Sens. 1 - H317
Repr. 2 - H361
STOT RE 1 - H372
Aquatic Chronic 3 - H412
**EPOXY MORTAR E FG (HARDENER COMPONENT)**

<table>
<thead>
<tr>
<th>BENZYL ALCOHOL</th>
<th>10 - 25%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 100-51-6</td>
<td>EC number: 202-859-9</td>
</tr>
</tbody>
</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>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 61788-44-1</td>
<td>EC number: 262-975-0</td>
</tr>
</tbody>
</table>

**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>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 90-72-2</td>
<td>EC number: 202-013-9</td>
</tr>
</tbody>
</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 MORTAR E FG (HARDENER COMPONENT)

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
11.1. Information on toxicological effects

**Toxicological effects**

Harmful if swallowed or in contact with skin.

**Acute toxicity - oral**

ATE oral (mg/kg) 689.66

**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**

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

**Specific target organ toxicity - single exposure**

STOT - single exposure Based on available data the classification criteria are not met.

**Specific target organ toxicity - repeated exposure**

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

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

### SECTION 12: Ecological Information

**Ecotoxicity**

Harmful to aquatic life.

**12.1. 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**
SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information
Dispose of waste product or used containers in accordance with local regulations.

Disposal methods
Dispose of waste via a licensed waste disposal contractor.

Waste class
EWC 08 00 00 EWC 08 02 00 EWC 08 02 99

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 2735
UN No. (IMDG) 2735
UN No. (ADN) 2735

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AMINES, LIQUID, CORROSIVE, N.O.S., (TRIETHYLENETETRAMINE)
Proper shipping name (IMDG) AMINES, LIQUID, CORROSIVE, N.O.S., (TRIETHYLENETETRAMINE)
Proper shipping name (ADN) AMINES, LIQUID, CORROSIVE, N.O.S., (TRIETHYLENETETRAMINE)

14.3. Transport hazard class(es)

ADR/RID class 8
ADR/RID classification code C7
ADR/RID label 8
IMDG class 8
ICAO class/division 8
ADN class 8

Transport labels

14.4. Packing group

ADR/RID packing group II
IMDG packing group II
ADN packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

EmS F-A, S-B
ADR transport category 2
**EPOXY MORTAR E FG (HARDENER COMPONENT)**

Hazard Identification Number 80
(ADR/RID)

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 21017

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.