SAFETY DATA SHEET
EPOXY MORTAR E HARDENER

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

1.1. Product identifier
Product name: EPOXY MORTAR E 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: Tel: 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 2 - H411

2.2. Label elements
Pictogram
Signal word: Danger
EPOXY MORTAR E HARDENER

Precautionary statements

P260 Do not breathe vapour/spray.
P501 Dispose of contents/container in accordance with national regulations.
P264 Wash contaminated skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P404 Store in a closed container.

Contains

2,2’-IMINODIETHYLAMINE, BISPHEROL A

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>2,2’-IMINODIETHYLAMINE</th>
<th>50 - 100%</th>
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<tbody>
<tr>
<td>CAS number: 111-40-0</td>
<td>EC number: 203-865-4</td>
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<td>REACH registration number: 01-2119473793-27-0000</td>
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<tr>
<td>Classification</td>
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<tr>
<td>Acute Tox. 4 - H302</td>
<td></td>
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<tr>
<td>Acute Tox. 4 - H312</td>
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<tr>
<td>Acute Tox. 2 - H330</td>
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<tr>
<td>Skin Corr. 1B - H314</td>
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<tr>
<td>Eye Dam. 1 - H318</td>
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<tr>
<td>Skin Sens. 1 - H317</td>
<td></td>
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<tr>
<td>STOT SE 3 - H335</td>
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</table>

<table>
<thead>
<tr>
<th>BISPHENOL A</th>
<th>25 - 50%</th>
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<tr>
<td>CAS number: 80-05-7</td>
<td>REACH registration number: 01-2119457856-23-0000</td>
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<td>Skin Sens. 1 - H317</td>
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<td>Repr. 1B - H360F</td>
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<tr>
<td>STOT SE 3 - H335</td>
<td></td>
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</tbody>
</table>

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

Ingredient notes

Bisphenol A, CAS No 80-05-7, is a Substance of Very High Concern, SVHC

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Ingestion
DO NOT induce vomiting. Get medical attention immediately. Immediately rinse mouth and drink plenty of water (200-300 ml).

Skin contact
Remove contaminated clothing immediately and wash skin with soap and water.

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.

Protection of first aiders
First aid personnel should wear appropriate protective equipment during any rescue.
EPOXY MORTAR E HARDENER

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

Inhalation  Fatal if inhaled.
Ingestion  May cause stomach pain or vomiting.
Skin contact  This product is strongly corrosive.
Eye contact  This product is strongly corrosive.

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

Notes for the doctor  Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Specific hazards  Oxides of Carbon, Benzoic Acid, Benzene

5.3. Advice for firefighters

Protective actions during firefighting  Beware, risk of formation of toxic and corrosive gases.

Special protective equipment for firefighters  Use protective equipment appropriate for surrounding materials.

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  Provide adequate ventilation. Absorb spillage with sand or other inert absorbent. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Dispose of contents/container in accordance with national regulations.

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  Ensure there is sufficient ventilation in work area.
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. Bund storage facilities to prevent soil and water pollution in the event of spillage. Keep away from food, drink and animal feeding stuffs.

Storage class  Chemical storage.

7.3. Specific end use(s)
SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

2,2'-IMINODIETHYLAMINE

Long-term exposure limit (8-hour TWA): WEL 1 ppm(Sk) 4.3 mg/m³(Sk)
Short-term exposure limit (15-minute): WEL
Long-term exposure limit (8-hour TWA): WEL 1ppm 4.3mg/m³ Sk (Ireland)

BISPHENOL A

Long-term exposure limit (8-hour TWA): 10 mg/m³ inhalable dust
Long-term exposure limit (8-hour TWA): WEL 10mg/m³ (inh) (Ireland)
WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

Eye/face protection
Use safety goggles and face shield in case of splash risk. Personal protective equipment for eye and face protection should comply with European Standard EN166. Ensure that an eye wash station is close at hand.

Hand protection
Wear protective gloves made of the following material: Nitrile rubber, Viton rubber (fluoro rubber), Butyl 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. Thickness: At least 0.5 mm

Other skin and body protection
Wear protective clothing.

Hygiene measures
Wash after use and before eating, smoking and using the toilet.

Respiratory protection
Combination filter A-P2

Environmental exposure controls
Store in a demarcated bunded area to prevent release to drains and/or watercourses.

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
>200°C at 760mm Hg

Flash point
96°C

Bulk density
1.031 g/cm³

Solubility(ies)
Insoluble in water.

Explosive properties
Not considered to be explosive.
EPOXY MORTAR E HARDENER

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects

Harmful if swallowed or in contact with skin. Fatal if inhaled

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)

1.0

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory sensitisation

May cause respiratory irritation.

Skin sensitisation

May cause an allergic skin reaction.

Reproductive toxicity

Reproductive toxicity - fertility

Suspected of damaging fertility.

SECTION 12: Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

This material and its container must be disposed of as hazardous waste.
EPOXY MORTAR E HARDENER

**Disposal methods**
Dispose of contents/container in accordance with national regulations.

**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) | 2079 |
| UN No. (IMDG) | 2079 |
| UN No. (ADN) | 2079 |

#### 14.2. UN proper shipping name

**Proper shipping name**
DIETHYLENETRIAMINE mixture, ENVIRONMENTALLY HAZARDOUS

**Proper shipping name (IMDG)**
DIETHYLENETRIAMINE mixture, MARINE POLLUTANT

**Proper shipping name (ADN)**
DIETHYLENETRIAMINE, mixture, ENVIRONMENTALLY HAZARDOUS

#### 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 |

#### 14.4. Packing group

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

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

#### 14.6. Special precautions for user

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

**ADR transport category**
2

**Emergency Action Code**
2X
EPOXY MORTAR E HARDENER

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

SECTION 15: Regulatory information

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

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  27/02/2018
Supersedes date  09/10/2017
SDS number  20986

Hazard statements in full
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H360F May damage fertility.
H361f Suspected of damaging fertility.
H411 Toxic 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.