



## SAFETY DATA SHEET E70 EPOXY GROUT HARDENER

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

#### 1.1. Product identifier

**Product name** E70 EPOXY 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

**Health hazards** Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361 STOT RE 1 - H372

**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.

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**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

<b>AMINES, POLYETHYLENEPOLY-, , TRIETHYLENETETRAMINE FRACTION</b>	<b>50 - 100%</b>
CAS number: 90640-67-8	EC number: 292-588-2
	REACH registration number: 01-2119487919-13-0000
<b>Classification</b>	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Aquatic Chronic 3 - H412	
<b>2-PIPERAZIN-1-YLETHYLAMINE</b>	<b>10 - 25%</b>
CAS number: 140-31-8	EC number: 205-411-0
	REACH registration number: 01-2119471486-30-0000
<b>Classification</b>	
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	

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<b>BENZYL ALCOHOL</b> <span style="float: right;"><b>10 - 25%</b></span>		
CAS number: 100-51-6	EC number: 202-859-9	REACH registration number: 01-2119492630-38-0000
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H332 Eye Irrit. 2 - H319		
<b>PHENOL, STYRENATED</b> <span style="float: right;"><b>2.5 - 10%</b></span>		
CAS number: 61788-44-1	EC number: 262-975-0	REACH registration number: 01-2119980970-27-0000
<b>Classification</b> Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411		
<b>2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL</b> <span style="float: right;"><b>2.5 - 10%</b></span>		
CAS number: 90-72-2	EC number: 202-013-9	REACH registration number: 01-2119560597-27-0000
<b>Classification</b> 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**

<b>General information</b>	Rinse immediately with plenty of water. While rinsing, remove clothing not adhering to the affected area.
<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Give plenty of water to drink. Get medical attention immediately. Remove person to fresh air and keep comfortable for breathing.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	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** Carbon dioxide (CO<sub>2</sub>). Powder. Larger fires: Alcohol-resistant foam.

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**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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<b>Hand protection</b>	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
<b>Other skin and body protection</b>	Wear protective clothing.
<b>Respiratory protection</b>	Combination filter A-P2
<b>Environmental exposure controls</b>	Keep container tightly sealed when not in use.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Clear, yellowish liquid.
<b>Odour</b>	Amine.
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	>100°C
<b>Flash point</b>	>100°C
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 1.3 Vol % Upper flammable/explosive limit: 13.0 Vol %
<b>Vapour pressure</b>	0.1 hPa @ 20°C
<b>Bulk density</b>	1.003 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	Immiscible with water.
<b>Auto-ignition temperature</b>	140°C
<b>Viscosity</b>	30 mPa s @ 23°C

#### 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

#### 10.2. Chemical stability

<b>Stability</b>	Stable under the prescribed storage conditions.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	None known.
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#### 10.4. Conditions to avoid

#### 10.5. Incompatible materials

<b>Materials to avoid</b>	Avoid contact with strong oxidising agents.
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#### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Thermal decomposition or combustion products may include the following substances: Toxic and/or corrosive gases and/or vapours.
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### SECTION 11: Toxicological information

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### 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

**Skin corrosion/irritation** Causes severe burns.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye damage.

#### Skin sensitisation

**Skin sensitisation** May cause an allergic skin reaction.

#### Carcinogenicity

**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

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

### **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

## E70 EPOXY GROUT HARDENER

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

<b>General information</b>	Dispose of waste product or used containers in accordance with local regulations
<b>Disposal methods</b>	Dispose of waste via a licensed waste disposal contractor.
<b>Waste class</b>	EWC 08 00 00 EWC 08 02 00 EWC 08 02 99

### SECTION 14: Transport information

#### 14.1. UN number

<b>UN No. (ADR/RID)</b>	2735
<b>UN No. (IMDG)</b>	2735
<b>UN No. (ADN)</b>	2735

#### 14.2. UN proper shipping name

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

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

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

#### Transport labels



#### 14.4. Packing group

<b>ADR/RID packing group</b>	II
<b>IMDG packing group</b>	II
<b>ADN packing group</b>	II

#### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**  
No.

#### 14.6. Special precautions for user

<b>EmS</b>	F-A, S-B
<b>ADR transport category</b>	2

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**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 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** Control of Substances Hazardous to Health Regulations 2002 (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).

**EU legislation** 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).

#### 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** 21015

**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.