XCR™ EPOXY COATING RESIN
Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 28/05/2015 Revision date: 11/11/2016 Supersedes: 29/06/2016 Version: 2.0

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

1.1. Product identifier

Product form: Mixture
Name: XCR Epoxy Coating Resin
Type of product: Epoxy resin
Product group: Resin

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

1.2.1. Relevant identified uses

Main use category: Industrial use
Industrial/Professional use spec: For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Easy Composites Ltd
Unit 39, Park Hall Business Village
Stoke on Trent, Staffordshire
ST3 5XA
www.easycomposites.co.uk | sales@easycomposites.co.uk

1.4. Emergency telephone number

Emergency number: +44 (0)1782 454499

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 — H315
Serious eye damage/eye irritation, Category 1 — H318
Sensitisation — Skin, Category 1 — H317
Hazardous to the aquatic environment — Chronic Hazard, Category 2 — H411

Adverse physicochemical, human health and environmental effects

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP):

Signal word (CLP): Danger
Hazardous ingredients: 1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether; reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700); Formaldehyde, polymer with (chloromethyl)oxirane and phenol

Hazard statements (CLP):

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP):

P261 - Avoid breathing vapours
P264 - Wash hands, forearms and face thoroughly after handling
P272 - Contaminated work clothing should not be allowed out of the workplace
P273 - Avoid release to the environment
## Section 2.3 Other hazards

Contains PBT/vPvB substances >= 0.1% assessed in accordance with REACH Annex XIII

### Section 3: Composition/Information on ingredients

#### 3.1 Substance

Not applicable

#### 3.2 Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
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<td>reaction product: bisphenol-A-(epichlorhydrin), epoxy resin</td>
<td>(CAS No) 25068-38-6</td>
<td>&gt;= 50</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411</td>
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<tr>
<td>(number average molecular weight ≤ 700)</td>
<td>(EC no) 500-033-5</td>
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<td>(EC index no) 603-074-00-8</td>
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<td>(REACH-no) 01-2119456819-26</td>
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<td>Formaldehyde, polymer with (chloromethyl)oxirane and phenol</td>
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<td>1,4-bis(2,3 epoxypropoxy)butane, butanediol diglycidyl ether</td>
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<td>Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation: vapour), H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412</td>
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<td>benzyl alcohol</td>
<td>(CAS No) 100-51-6</td>
<td>3 - 5</td>
<td>Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation: dust,mist), H332 Eye Irrit. 2, H319</td>
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<td>(EC no) 202-859-9</td>
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<td>(REACH-no) 01-211942630-38</td>
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<td>Tinuvin 328 (Benzotriazole UV absorber) non-classified PBT substance</td>
<td>(CAS No) 25973-55-1</td>
<td>× 1</td>
<td>STOT RE 2, H373 Aquatic Chronic 4, H413</td>
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<td>substance listed as REACH Candidate (2-(2H-benzotriazol-2-yI)-4,6- diterpenyphenol (UV-328)) non-classified vsPvB substance</td>
<td>(EC no) 247-384-8</td>
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<td>(REACH-no) 01-211995688-xxxx</td>
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### Specific concentration limits:

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
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<tr>
<td>reaction product: bisphenol-A-(epichlorhydrin), epoxy resin</td>
<td>(CAS No) 25068-38-6</td>
<td>(C &gt;= 5) Skin Irrit. 2, H315</td>
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<td>(number average molecular weight ≤ 700)</td>
<td>(EC no) 500-033-5</td>
<td>(C &gt;= 5) Eye Irrit. 2, H319</td>
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<td>(EC index no) 603-074-00-8</td>
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<tr>
<td></td>
<td>(REACH-no) 01-2119456819-26</td>
<td></td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

## Section 4: First aid measures

### 4.1 Description of first aid measures

- **First-aid measures after inhalation**: Remove person to fresh air and keep comfortable for breathing.
- **First-aid measures after skin contact**: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- **First-aid measures after eye contact**: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
- **First-aid measures after ingestion**: Call a poison center or a doctor if you feel unwell.

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

- **Symptoms/injuries after skin contact**: Irritation. May cause an allergic skin reaction.
- **Symptoms/injuries after eye contact**: Serious damage to eyes.

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

Treat symptomatically.

## Section 5: Firefighting measures

### 5.1 Extinguishing media

- **Suitable extinguishing media**: Water spray. Dry powder. Foam. Carbon dioxide.
- **Unsuitable extinguishing media**: Do not use a heavy water stream.
5.2. Special hazards arising from the substance or mixture
Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information: Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Emergency procedures: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
For containment: Collect spillage.
Methods for cleaning up: Take up liquid spill into absorbent material.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection”.

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Separate working clothes from town clothes. Launder separately. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a well-ventilated place. Keep cool.
Maximum storage period: 2 year
Storage temperature: \( \leq 30 \, ^\circ \text{C} \)
Storage area: Store away from heat. Store in a well-ventilated place.
Special rules on packaging: Keep only in original container.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
No additional information available

8.2. Exposure controls
Appropriate engineering controls: Ensure good ventilation of the work station.
Personal protective equipment: Gloves. Protective clothing. Safety glasses.
Hand protection:
Protective gloves
Eye protection:
Safety glasses
**Skin and body protection:**

Wear suitable protective clothing

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment. In case of inadequate ventilation wear respiratory protection

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**Environmental exposure controls**

Avoid release to the environment.

**Other information**

Do not eat, drink or smoke during use.

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### SECTION 9: Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<td>Physical state</td>
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<td>Colour</td>
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<td>Odour</td>
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<td>Melting point</td>
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<td>Freezing point</td>
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<td>Boiling point</td>
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<td>Flash point</td>
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<td>Auto-ignition temperature</td>
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<td>Decomposition temperature</td>
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<td>Flammability (solid, gas)</td>
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<td>Vapour pressure</td>
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<td>Relative vapour density at 20 °C</td>
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<td>Explosive properties</td>
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</table>

#### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Product is not explosive.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether (2425-79-8)
LD50 oral rat: 1134 mg/kg

benzyl alcohol (100-51-6)
LD50 oral rat: 1230 mg/kg
LD50 dermal rabbit: 2 g/kg
LC50 inhalation rat (mg/l): 8.8 mg/l/4h

reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)
LD50 oral rat: 11400 mg/kg

Formaldehyde, polymer with (chloromethyl)oxirane and phenol (9003-36-5)
LD50 oral rat: > 2 g/kg

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Causes serious eye damage.
Respiratory or skin sensitisation: May cause an allergic skin reaction.
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified

SP 115 RESIN
Viscosity, kinematic: 1002.57953568 mm²/s

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: Toxic to aquatic life with long lasting effects.

benzyl alcohol (100-51-6)
LC50 fish 1: 460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 fish 2: 10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1: 23 mg/l (Exposure time: 48 h - Species: water flea)

reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)
LC50 fish 1: 1.5 mg/l
LC50 fish 2: 2 mg/l

Formaldehyde, polymer with (chloromethyl)oxirane and phenol (9003-36-5)
LC50 fish 1: < 1 mg/l

12.2. Persistence and degradability

reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)
Persistence and degradability: May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

benzyl alcohol (100-51-6)
Log Pow: 1.1

reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)
Bioaccumulative potential: Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component
Tinuvin 328 (Benzotriazole UV absorber) (25973-55-1)
This substance/mixture meets the PBT criteria of REACH regulation, annex XIII
This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII
12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Regional legislation (waste) : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector’s sorting instructions.
Waste disposal recommendations : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.
European List of Waste (LoW) code : 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG

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<th>IMDG</th>
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<td>14.2</td>
<td>UN proper shipping name</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) ; Formaldehyde, polymer with (chloromethyl)oxirane and phenol)</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) ; Formaldehyde, polymer with (chloromethyl)oxirane and phenol)</td>
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<td>Packing group</td>
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</table>

14.6. Special precautions for user

- Overland transport
Classification code (ADR) : M6
Special provisions (ADR) : 274, 335, 601
Limited quantities (ADR) : 5l
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP1, TP29
Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
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**SECTION 15: Regulatory information**

**Not applicable**

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration ≥ 0.1% or with a lower specific limit: 2-(2H-benzotriazol-2-yl)-4,6-diterpentylphenol (UV-328) (EC 247-384-8, CAS 25973-55-1)

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

**SECTION 16: Other information**

Full text of H- and EUH-statements:
- **Acute Tox. 4 (Dermal)**: Acute toxicity (dermal), Category 4
- **Acute Tox. 4 (Inhalation:dust,mist)**: Acute toxicity (inhalation:dust,mist) Category 4
- **Acute Tox. 4 (Inhalation: vapour)**: Acute toxicity (inhalation:vapour) Category 4
**XCR™ EPOXY COATING Resin**

Safety Data Sheet

according to Regulation (EC) No. 453/2010

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral), Category 4</th>
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<tbody>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 2</td>
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<tr>
<td>Aquatic Chronic 3</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 3</td>
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<tr>
<td>Aquatic Chronic 4</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 4</td>
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<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
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<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation, Category 2</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Sensitisation — Skin, Category 1</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>Specific target organ toxicity — Repeated exposure, Category 2</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H413</td>
<td>May cause long lasting harmful effects to aquatic life</td>
</tr>
<tr>
<td>EUH205</td>
<td>Contains epoxy constituents. May produce an allergic reaction</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irrit. 2</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
</tr>
</tbody>
</table>

**SDS EU (REACH Annex II)**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

- **Product form**: Mixture
- **Name**: XCR™ Epoxy Coating Hardener
- **Product group**: Hardener

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

1.2.1. Relevant identified uses

- **Industrial/Professional use spec**: For professional use only

1.2.2. Uses advised against

- No additional information available

1.3. Details of the supplier of the safety data sheet

**Easy Composites Ltd**
Unit 39, Park Hall Business Village
Stoke on Trent, Staffordshire
ST3 5XA
www.easycomposites.co.uk | sales@easycomposites.co.uk

1.4. Emergency telephone number

- **Emergency number**: +44 (0)1782 454499

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

- **Acute toxicity (oral)**, Category 4: H302
- **Acute toxicity (dermal)**, Category 4: H312
- **Skin corrosion/irritation** — Skin, Category 1B: H314
- **Sensitisation — Skin**, Category 1: H317
- **Germ cell mutagenicity**, Category 2: H341
- **Hazardous to the aquatic environment — Chronic Hazard**, Category 3: H412

Full text of H statements: see section 16

**Adverse physicochemical, human health and environmental effects**

- No additional information available

2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

- **Hazard pictograms (CLP)**:
  - GHS05
  - GHS07
  - GHS08

- **Signal word (CLP)**: Danger
- **Hazardous ingredients**: Phenol; Trimethylhexamethylenediamine; 3-aminomethyl-3,5,5-trimethylcyclohexylamine; benzyl alcohol; Salicylic acid
- **Hazard statements (CLP)**:
  - H302+H312 - Harmful if swallowed or in contact with skin
  - H314 - Causes severe skin burns and eye damage
  - H317 - May cause an allergic skin reaction
  - H341 - Suspected of causing genetic defects
  - H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (CLP):
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe vapours
P264 - Wash hands, forearms and face thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P272 - Contaminated work clothing should not be allowed out of the workplace

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-aminomethyl-3,5,5-trimethylcyclohexylamine</td>
<td>(CAS No) 2855-13-2 (EC no) 220-666-8 (EC index no) 612-067-00-9 (REACH-no) 01-2119514887-32</td>
<td>&gt;= 50</td>
<td>Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>Trimethylhexamethylenediamine</td>
<td>(CAS No) 25620-58-0 (EC no) 247-134-8</td>
<td>5 - 25</td>
<td>Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>benzyl alcohol</td>
<td>(CAS No) 100-51-6 (EC no) 202-859-9 (EC index no) 603-057-00-5 (REACH-no) 01-2119493630-38</td>
<td>10 - 25</td>
<td>Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>Phenol</td>
<td>(CAS No) 108-95-2 (EC no) 203-632-7 (EC index no) 604-001-00-2 (REACH-no) 01-2119471329-32</td>
<td>3 - 10</td>
<td>Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 Muta. 2, H341 STOT RE 2, H373</td>
</tr>
<tr>
<td>Salicylic acid</td>
<td>(CAS No) 69-72-7 (EC no) 200-712-3 (REACH-no) 01-2119486984-17</td>
<td>3 - 5</td>
<td>Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318</td>
</tr>
</tbody>
</table>

Specific concentration limits:

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>Specific concentration limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol</td>
<td>(CAS No) 108-95-2 (EC no) 203-632-7 (EC index no) 604-001-00-2 (REACH-no) 01-2119471329-32</td>
<td>(1 &lt;= C &lt; 3) Skin Irrit. 2, H315 (1 &lt;= C &lt; 3) Eye Irrit. 2, H319 (C &gt;= 3) Skin Corr. 1B, H314</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation: Move the affected person away from the contaminated area and into the fresh air. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion: Do not induce vomiting. Get immediate medical advice/attention.

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

Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation: None under normal use.
Symptoms/injuries after skin contact: May cause an allergic skin reaction. May cause moderate irritation.
Symptoms/injuries after eye contact: May cause slight irritation.
Symptoms/injuries after ingestion: None under normal use.
Symptoms/injuries upon intravenous administration:
None under normal use.

Chronic symptoms:
Skin irritation, dermatitis and sensitisation.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
Fire hazard: None under normal use.
Explosion hazard: None under normal use.
Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters
Precautionary measures fire: Evacuate area.
Firefighting instructions: Exercise caution when fighting any chemical fire.
Protection during firefighting: Self-contained breathing apparatus.
Other information: Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Protective equipment: Protective clothing.

6.1.2. For emergency responders
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
For containment: Collect spillage.
Methods for cleaning up: Recover mechanically the product. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections
For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station.
Hygiene measures: Do not eat, drink or smoke when using this product. Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Keep container closed when not in use. Keep cool. Protect from sunlight.
Storage temperature: ≤ 30 °C
Storage area: Store away from heat. Store in a well-ventilated place.
Special rules on packaging: Keep only in original container.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Phenol (108-95-2)</th>
<th>EU</th>
<th>EU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IOELV TWA (mg/m³)</td>
<td>8 mg/m³</td>
</tr>
<tr>
<td></td>
<td>IOELV TWA (ppm)</td>
<td>2 ppm</td>
</tr>
<tr>
<td></td>
<td>IOELV STEL (mg/m³)</td>
<td>16 mg/m³</td>
</tr>
<tr>
<td></td>
<td>IOELV STEL (ppm)</td>
<td>4 ppm</td>
</tr>
</tbody>
</table>
**Phenol (108-95-2)**

<table>
<thead>
<tr>
<th>Local name</th>
<th>Phenol</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL TWA (mg/m³)</td>
<td>7.8 mg/m³</td>
</tr>
<tr>
<td>WEL TWA (ppm)</td>
<td>2 ppm</td>
</tr>
<tr>
<td>WEL STEL (mg/m³)</td>
<td>16 mg/m³</td>
</tr>
<tr>
<td>WEL STEL (ppm)</td>
<td>4 ppm</td>
</tr>
<tr>
<td>Remark (WEL)</td>
<td>Sk</td>
</tr>
</tbody>
</table>

**8.2. Exposure controls**

- **Appropriate engineering controls**: Ensure good ventilation of the work station.
- **Personal protective equipment**: Gloves. Protective clothing. Safety glasses.
- **Hand protection**: Protective gloves
- **Eye protection**: Safety glasses

**Environmental exposure controls**: Avoid release to the environment.

**Other information**: Do not eat, drink or smoke during use.

**SECTION 9: Physical and chemical properties**

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

- **Physical state**: Liquid
- **Colour**: Yellow
- **Odour**: Amine-like
- **Odour threshold**: No data available
- **pH**: No data available
- **Relative evaporation rate (butylacetate=1)**: No data available
- **Melting point**: Not applicable
- **Freezing point**: No data available
- **Boiling point**: No data available
- **Flash point**: No data available
- **Auto-ignition temperature**: No data available
- **Decomposition temperature**: No data available
- **Flammability (solid, gas)**: No data available
- **Vapour pressure**: No data available
- **Relative vapour density at 20 °C**: No data available
- **Relative density**: No data available
- **Density**: 0.969 g/cm³
- **Solubility**: No data available
- **Log Pow**: No data available
- **Viscosity, kinematic**: No data available
- **Viscosity, dynamic**: 173 cP 20°C
- **Explosive properties**: Product is not explosive
- **Oxidising properties**: No data available
- **Explosive limits**: No data available

**9.2. Other information**

No additional information available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Product is not explosive.

**10.2. Chemical stability**

Stable under normal conditions.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
Heat.

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

### Acute toxicity
- **Oral**: Harmful if swallowed. Dermal: Harmful in contact with skin.

### ATE CLP (oral)
- 607.526 mg/kg bodyweight

### ATE CLP (dermal)
- 1383.186 mg/kg bodyweight

### Phenol (108-95-2)
- **LD50 oral rat**: 340 mg/kg
- **LD50 dermal rabbit**: 630 mg/kg

### Trimethylhexamethylenediamine (25620-58-0)
- **LD50 oral rat**: 910 mg/kg

### 3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)
- **LD50 oral rat**: 1030 mg/kg

### benzy alcohol (100-51-6)
- **LD50 oral rat**: 1230 mg/kg
- **LD50 dermal rabbit**: 2 g/kg
- **LC50 inhalation rat (mg/l)**: 8.8 mg/l/4h

### Salicylic acid (69-72-7)
- **LD50 oral rat**: 891 mg/kg
- **LC50 inhalation rat (mg/l)**: > 900 mg/m³ (Exposure time: 1 h)

### Skin corrosion/irritation
- Causes severe skin burns and eye damage.

### Serious eye damage/irritation
- Serious eye damage, category 1, implicit

### Respiratory or skin sensitisation
- May cause an allergic skin reaction.

### Germ cell mutagenicity
- Suspected of causing genetic defects.

### Carcinogenicity
- Not classified

### Reproductive toxicity
- Not classified

### Specific target organ toxicity (single exposure)
- Not classified

### Specific target organ toxicity (repeated exposure)
- Not classified

### Aspiration hazard
- Not classified

SECTION 12: Ecological information

12.1. Toxicity

### Phenol (108-95-2)
- **LC50 fish 1**: 11.9 - 50.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
- **LC50 fish 2**: 20.5 - 25.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
- **EC50 Daphnia 1**: 4.24 - 10.7 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
- **EC50 Daphnia 2**: 10.2 - 15.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
- **EC50 72h algae (1)**: 187 - 279 mg/l (Species: Desmodesmus subspicatus [static])
- **EC50 96h algae (1)**: 46.42 mg/l (Species: Pseudokirchneriella subcapitata)
- **EC50 96h algae (2)**: 0.0188 - 0.1044 mg/l (Species: Pseudokirchneriella subcapitata [static])

### Trimethylhexamethylenediamine (25620-58-0)
- **EC50 72h algae (1)**: 29.5 mg/l (Species: Desmodesmus subspicatus)
**XCR™ Epoxy Coating Hardener**  
Safety Data Sheet  
according to Regulation (EC) No. 453/2010

### 3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)

<table>
<thead>
<tr>
<th>Test</th>
<th>EC50</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daphnia 1 (48 h)</td>
<td>14.6 - 21.5 mg/l</td>
<td>Species: Daphnia magna [semi-static]</td>
</tr>
<tr>
<td>72h algae (1)</td>
<td>37 mg/l</td>
<td>Species: Desmodesmus subspicatus</td>
</tr>
</tbody>
</table>

**benzyl alcohol (100-51-6)**

<table>
<thead>
<tr>
<th>Test</th>
<th>LC50</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish 1 (96 h)</td>
<td>460 mg/l</td>
<td>Species: Pimephales promelas [static]</td>
</tr>
<tr>
<td>Fish 2 (96 h)</td>
<td>10 mg/l</td>
<td>Species: Lepomis macrochirus [static]</td>
</tr>
<tr>
<td>Daphnia 1 (48 h)</td>
<td>23 mg/l</td>
<td>Species: water flea</td>
</tr>
</tbody>
</table>

**Salicylic acid (69-72-7)**

<table>
<thead>
<tr>
<th>Test</th>
<th>EC50</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daphnia 1 (48 h)</td>
<td>870 mg/l</td>
<td>Species: Daphnia magna [Static]</td>
</tr>
</tbody>
</table>

### 12.2 Persistence and degradability

No additional information available

### 12.3 Bioaccumulative potential

**Phenol (108-95-2)**

<table>
<thead>
<tr>
<th>BCF</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish 1</td>
<td>(no significant bioaccumulation)</td>
</tr>
<tr>
<td>1.47</td>
<td></td>
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</tbody>
</table>

**Trimethylhexamethylenediamine (25620-58-0)**

<table>
<thead>
<tr>
<th>Log Pow</th>
<th>(at 23 °C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.77</td>
<td></td>
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</table>

**3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)**

<table>
<thead>
<tr>
<th>Log Pow</th>
<th>(at 23 °C)</th>
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<tbody>
<tr>
<td>0.79</td>
<td></td>
</tr>
</tbody>
</table>

**benzyl alcohol (100-51-6)**

| Log Pow | |
|---------| |
| 1.1 |

**Salicylic acid (69-72-7)**

<table>
<thead>
<tr>
<th>BCF</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish 1</td>
<td>&gt;= 1000</td>
</tr>
<tr>
<td>0 - 2.26</td>
<td>(at 37 °C)</td>
</tr>
</tbody>
</table>

### 12.4 Mobility in soil

No additional information available

### 12.5 Results of PBT and vPvB assessment

No additional information available

### 12.6 Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Regional legislation (waste): Disposal must be done according to official regulations.

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste disposal recommendations: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials: Avoid release to the environment.

European List of Waste (LoW) code: 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1 UN number

| UN-No. (ADR) | 2735 |
| UN-No. (IMDG) | 2735 |
| UN-No. (IATA) | 2735 |

#### 14.2 UN proper shipping name

Proper Shipping Name (ADR): POLYAMINES, LIQUID, CORROSIVE, N.O.S.

Proper Shipping Name (IMDG): POLYAMINES, LIQUID, CORROSIVE, N.O.S.

Proper Shipping Name (IATA): Polymines, liquid, corrosive, n.o.s.

Transport document description (ADR): UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; phenol, carboxic acid, monohydroxybenzene, phenylalcohol), 8, II, (E)

Transport document description (IMDG): UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl-3,5,5-trimethylcyclohexylamine; phenol, carboxic acid, monohydroxybenzene, phenylalcohol), 8, II
XCR™ Epoxy Coating Hardener
Safety Data Sheet
according to Regulation (EC) No. 453/2010

Transport document description (IATA) : UN 2735 Polyamines, liquid, corrosive, n.o.s., 8, II

<table>
<thead>
<tr>
<th>14.3. Transport hazard class(es)</th>
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</thead>
<tbody>
<tr>
<td><strong>ADR</strong></td>
</tr>
<tr>
<td>Transport hazard class(es) (ADR) : 8</td>
</tr>
<tr>
<td>Danger labels (ADR)             : 8</td>
</tr>
<tr>
<td><strong>IMDG</strong></td>
</tr>
<tr>
<td>Transport hazard class(es) (IMDG) : 8</td>
</tr>
<tr>
<td>Danger labels (IMDG)            : 8</td>
</tr>
<tr>
<td><strong>IATA</strong></td>
</tr>
<tr>
<td>Transport hazard class(es) (IATA) : 8</td>
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<tr>
<td>Hazard labels (IATA)            : 8</td>
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</table>

<table>
<thead>
<tr>
<th>14.4. Packing group</th>
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</thead>
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<tr>
<td>Packing group (ADR) : II</td>
</tr>
<tr>
<td>Packing group (IMDG) : II</td>
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<tr>
<td>Packing group (IATA) : II</td>
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</table>

<table>
<thead>
<tr>
<th>14.5. Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dangerous for the environment : No</td>
</tr>
<tr>
<td>Marine pollutant             : No</td>
</tr>
<tr>
<td>Other information            : No supplementary information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.6. Special precautions for user</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>- Overland transport</strong></td>
</tr>
<tr>
<td>Classification code (ADR)        : C7</td>
</tr>
<tr>
<td>Special provisions (ADR)         : 274</td>
</tr>
<tr>
<td>Limited quantities (ADR)         : 1l</td>
</tr>
<tr>
<td>Excepted quantities (ADR)        : E2</td>
</tr>
<tr>
<td>Packing instructions (ADR)       : P001, IBC02</td>
</tr>
<tr>
<td>Mixed packing provisions (ADR)   : MP15</td>
</tr>
<tr>
<td>Portable tank and bulk container instructions (ADR) : T11</td>
</tr>
<tr>
<td>Portable tank and bulk container special provisions (ADR) : TP1, TP27</td>
</tr>
<tr>
<td>Tank code (ADR)                  : L4BN</td>
</tr>
<tr>
<td>Vehicle for tank carriage        : AT</td>
</tr>
<tr>
<td>Transport category (ADR)         : 2</td>
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<tr>
<td>Hazard identification number (Kemler No.) : 80</td>
</tr>
</tbody>
</table>
Orange plates: 80/2735

Tunnel restriction code (ADR): E
EAC code: 2X
APP code: B

- Transport by sea
Special provisions (IMDG): 274
Limited quantities (IMDG): 1 L
Excepted quantities (IMDG): E2
Packing instructions (IMDG): P001
IBC packing instructions (IMDG): IBC02
Tank instructions (IMDG): T11
Tank special provisions (IMDG): TP1, TP27
EmS-No. (Fire): F-A
EmS-No. (Spillage): S-B
Stowage category (IMDG): A
Properties and observations (IMDG): Colourless to yellowish liquids or solutions with a pungent odour. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Reacts violently with acids. Cause burns to skin, eyes and mucous membranes.

- Air transport
PCA Excepted quantities (IATA): E2
PCA Limited quantities (IATA): Y840
PCA limited quantity max net quantity (IATA): 0.5L
PCA packing instructions (IATA): 851
PCA max net quantity (IATA): 1L
CAO packing instructions (IATA): 855
CAO max net quantity (IATA): 30L
Special provisions (IATA): A3
ERG code (IATA): 8L

14.7. 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
15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

- Acute Tox. 3 (Dermal): Acute toxicity (dermal), Category 3
- Acute Tox. 3 (Inhalation:dust,mist): Acute toxicity (inhalation:dust,mist) Category 3
- Acute Tox. 3 (Oral): Acute toxicity (oral), Category 3
- Acute Tox. 4 (Dermal): Acute toxicity (dermal), Category 4
- Acute Tox. 4 (Inhalation:dust,mist): Acute toxicity (inhalation:dust,mist) Category 4
- Acute Tox. 4 (Oral): Acute toxicity (oral), Category 4
- Aquatic Chronic 3: Hazardous to the aquatic environment — Chronic Hazard, Category 3
### XCR™ Epoxy Coating Hardener

**Safety Data Sheet**

according to Regulation (EC) No. 453/2010

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation, Category 2</td>
</tr>
<tr>
<td>Muta. 2</td>
<td>Germ cell mutagenicity, Category 2</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation, Category 1B</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Sensitisation — Skin, Category 1</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>Specific target organ toxicity — Repeated exposure, Category 2</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H341</td>
<td>Suspected of causing genetic defects</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

**SDS EU (REACH Annex II)**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.