



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## DRY FIX® UNI - Component B

Version number: GHS 1.0

Date of compilation: 2015-06-11

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

#### 1.1 Product identifier

Trade name **DRY FIX® UNI - Component B**  
not relevant (mixture)

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

Relevant identified uses professional use  
Specific process or activity Elastic repair compound  
Use product only in combination with component B  
Uses advised against consumer uses

#### 1.3 Details of the supplier of the safety data sheet

Repair Care  
Cartografenweg 34  
5140 AG Waalwijk  
Netherlands

Telephone: +31 (0) 416 650095  
Telefax: +31 (0) 416 652024  
e-mail: info@repair-care.com  
Website: www.repair-care.com  
e-mail (competent person)

info@repair-care.com

#### 1.4 Emergency telephone number

National Poisons Information Service (NPIS): 0844-8920111 (UK only) For medical professionals only.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 (CLP)

| GHS chapter | -   | Hazard class and category | -                   | Hazard statement code(s) |
|-------------|---|---------------------------|---------------------|--------------------------|
| 3.2         | skin corrosion/irritation                             | Cat. 1B                   | (Skin Corr. 1B)     | H314                     |
| 3.3         | serious eye damage/eye irritation                     | Cat. 1                    | (Eye Dam. 1)        | H318                     |
| 3.4S        | skin sensitisation                                    | Cat. 1                    | (Skin Sens. 1)      | H317                     |
| 3.7         | reproductive toxicity                                 | Cat. 2                    | (Repr. 2)           | H361f                    |
| 4.1C        | hazardous to the aquatic environment - chronic hazard | Cat. 2                    | (Aquatic Chronic 2) | H411                     |

##### Remarks

For full text of H-phrases: see SECTION 16.

##### The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word **Danger**

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### Pictograms

GHS05, GHS07,  
GHS08, GHS09



### Hazard statements

|       |  |
|-------|--|
| H314  | Causes severe skin burns and eye damage.         |
| H317  | May cause an allergic skin reaction.             |
| H361f | Suspected of damaging fertility.                 |
| H411  | Toxic to aquatic life with long lasting effects. |

### Precautionary statements

#### Precautionary statements - prevention

|      |  |
|------|--|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.                           |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

#### Precautionary statements - response

|                |  |
|----------------|--|
| P303+P361+P353 | IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water/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. |
| P391           | Collect spillage.  |

#### Precautionary statements - disposal

|      |   |
|------|---|
| P501 | Dispose of contents/container to industrial combustion plant. |
|------|---|

#### Hazardous ingredients for labelling:

Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl groups, 2,4,6-tris(dimethylaminomethyl)phenol, 4-tert-butylphenol, 2-piperazin-1-ylethylamine

### 2.3 Other hazards

There is no additional information.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

| Name of substance       | Identifier                                  | wt%  | Classification acc. to 1272/2008/EC  | Classification acc. to 67/548/EEC   |
|-------------------------|---|------|--|---|
| Polyoxypropylenediamine | CAS No<br>9046-10-0                         | ≤ 75 | Skin Corr. 1C / H314<br>Eye Dam. 1 / H318<br>Aquatic Chronic 2 / H411                    | corrosive; C; R34<br>dangerous for the environment;<br>R52-53   |
| 4-tert-butylphenol      | CAS No<br>98-54-4<br><br>EC No<br>202-679-0 | ≤ 25 | Skin Irrit. 2 / H315<br>Eye Dam. 1 / H318<br>Repr. 2 / H361f<br>Aquatic Chronic 1 / H410 | irritant; Xi; R38-41<br>toxic for reproduction; Repr. Cat.<br>3; R62<br>dangerous for the environment;<br>N; R51-53 |

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| Name of substance                     | Identifier   | wt%  | Classification acc. to 1272/2008/EC  | Classification acc. to 67/548/EEC  |
|---------------------------------------|--|------|--|--|
| 2,4,6-tris(dimethylaminomethyl)phenol | CAS No<br>90-72-2<br><br>EC No<br>202-013-9<br><br>REACH Reg. No<br>01-2119560597-27-<br>xxxx  | ≤ 25 | Skin Corr. 1B / H314<br>Eye Dam. 1 / H318<br>Skin Sens. 1B / H317<br>Aquatic Chronic 3 / H412  | corrosive; C; R34<br>dangerous for the environment;<br>R52-53  |
| Bis (dimethylaminomethyl) phenol      | CAS No<br>71074-89-0<br><br>EC No<br>275-162-0   | ≤ 5  | Acute Tox. 4 / H302<br>Acute Tox. 4 / H312<br>Skin Corr. 1 / H314<br>Eye Dam. 1 / H318<br>STOT SE 3 / H335                                 |  |
| 2-piperazin-1-ylethylamine            | CAS No<br>140-31-8<br><br>EC No<br>205-411-0<br><br>REACH Reg. No<br>01-2119471486-30-<br>xxxx | ≤ 5  | Acute Tox. 4 / H302<br>Acute Tox. 3 / H311<br>Skin Corr. 1B / H314<br>Eye Dam. 1 / H318<br>Skin Sens. 1 / H317<br>Aquatic Chronic 3 / H412 | harmful; Xn; R21/22<br>corrosive; C; R34<br>sensitising; Xi; R43<br>dangerous for the environment;<br>R52-53                                     |
| 2-(2-aminoethylamino)ethanol          | CAS No<br>111-41-1<br><br>EC No<br>203-867-5   | ≤ 1  | Skin Corr. 1B / H314<br>Eye Dam. 1 / H318<br>Skin Sens. 1B / H317<br>Repr. 1B / H360Df<br>Lact. / H362<br>STOT SE 3 / H335                 | corrosive; C; R34<br>sensitising; Xi; R43<br>toxic for reproduction; Repr. Cat.<br>3; R62<br>toxic for reproduction; Repr. Cat.<br>1; R61<br>R64 |

For full text of abbreviations: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### **General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### **Following inhalation**

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

##### **Following skin contact**

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Seek medical treatment in case of complaints. Wash contaminated clothing before reuse.

##### **Following eye contact**

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

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### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

For specialist advice physicians should contact the anti poison control centre.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

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

#### Hazardous combustion products

nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

Keep containers cool with water spray. In case of fire and/or explosion do not breathe fumes. Co-ordinate fire-fighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Remove persons to safety.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Warning and evacuating people in the neighbourhood.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it. If substance has entered a water course or sewer, inform the responsible authority.

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

#### Advices on how to contain a spill

Covering of drains.

#### Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

#### Appropriate containment techniques

Use of adsorbent materials.

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### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Recommendations

- **Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation. Use only in well-ventilated areas.

#### Advice on general occupational hygiene

Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Managing of associated risks

Handling and storage

Keep only in the original container in a cool, well-ventilated place. Keep container closed when not in use.

#### Incompatible substances or mixtures

Do not store together with materials with which contact should be avoided (see chapter 10). Protect from sunlight. Keep away from sources of ignition - No smoking.

#### Consideration of other advice

Storage temperature of 10 °C and up to 30 °C.

- **Packaging compatibilities**

Only packagings which are approved (e.g. acc. to ADR) may be used.

### 7.3 Specific end use(s)

Industrial uses.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

No information available.

#### Relevant DNELs/DMELs/PNECs and other threshold levels

- **relevant DNELs of components of the mixture**

| Name of substance          | CAS No    | End-point | Threshold level       | Protection goal, route of exposure | Used in           | Exposure time              |
|----------------------------|-----------|-----------|-----------------------|------------------------------------|-------------------|----------------------------|
| Polyoxypropylenedia mine   | 9046-10-0 | DNEL      | 2.5 mg/kg             | human, dermal                      | worker (industry) | chronic - systemic effects |
| 4-tert-butylphenol         | 98-54-4   | DNEL      | 0.071 mg/kg           | human, dermal                      | worker (industry) | chronic - systemic effects |
| 4-tert-butylphenol         | 98-54-4   | DNEL      | 0.5 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| 2-piperazin-1-ylethylamine | 140-31-8  | DNEL      | 20 mg/kg              | human, dermal                      | worker (industry) | acute - systemic effects   |

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| Name of substance            | CAS No   | End-point | Threshold level        | Protection goal, route of exposure | Used in           | Exposure time              |
|------------------------------|----------|-----------|------------------------|------------------------------------|-------------------|----------------------------|
| 2-piperazin-1-ylethylamine   | 140-31-8 | DNEL      | 21.4 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| 2-piperazin-1-ylethylamine   | 140-31-8 | DNEL      | 3.3 mg/kg              | human, dermal                      | worker (industry) | chronic - systemic effects |
| 2-piperazin-1-ylethylamine   | 140-31-8 | DNEL      | 3.6 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| 2-(2-aminoethylamino)ethanol | 111-41-1 | DNEL      | 8.33 mg/kg             | human, dermal                      | worker (industry) | chronic - systemic effects |
| 2-(2-aminoethylamino)ethanol | 111-41-1 | DNEL      | 3.53 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |

• **relevant PNECs of components of the mixture**

| Name of substance       | CAS No    | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
|-------------------------|-----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Polyoxypropylenediamine | 9046-10-0 | PNEC      | 0.015 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| Polyoxypropylenediamine | 9046-10-0 | PNEC      | 0.0142 mg/l     | aquatic organisms     | marine water                 | short-term (single instance) |
| Polyoxypropylenediamine | 9046-10-0 | PNEC      | 7.5 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| Polyoxypropylenediamine | 9046-10-0 | PNEC      | 0.132 mg/kg     | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| Polyoxypropylenediamine | 9046-10-0 | PNEC      | 0.125 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| Polyoxypropylenediamine | 9046-10-0 | PNEC      | 6.93 mg/kg      | aquatic organisms     | water                        | short-term (single instance) |
| Polyoxypropylenediamine | 9046-10-0 | PNEC      | 0.0176 mg/kg    | terrestrial organisms | soil                         | short-term (single instance) |
| Polyoxypropylenediamine | 9046-10-0 | PNEC      | 0.15 mg/l       | aquatic organisms     | water                        | continuous                   |
| 4-tert-butylphenol      | 98-54-4   | PNEC      | 0.01 mg/l       | aquatic organisms     | freshwater                   | short-term (single instance) |
| 4-tert-butylphenol      | 98-54-4   | PNEC      | 0.001 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| 4-tert-butylphenol      | 98-54-4   | PNEC      | 1.5 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| 4-tert-butylphenol      | 98-54-4   | PNEC      | 0.27 mg/kg      | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| 4-tert-butylphenol      | 98-54-4   | PNEC      | 0.027 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| 4-tert-butylphenol      | 98-54-4   | PNEC      | 46.67 mg/kg     | aquatic organisms     | water                        | short-term (single instance) |
| 4-tert-butylphenol      | 98-54-4   | PNEC      | 0.25 mg/kg      | terrestrial organisms | soil                         | short-term (single instance) |

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| Name of substance                     | CAS No   | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
|---------------------------------------|----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| 4-tert-butylphenol                    | 98-54-4  | PNEC      | 0.048 mg/l      | aquatic organisms     | water                        | continuous                   |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2  | PNEC      | 0.084 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2  | PNEC      | 0.0084 mg/l     | aquatic organisms     | marine water                 | short-term (single instance) |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2  | PNEC      | 0.2 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2  | PNEC      | 0.84 mg/l       | aquatic organisms     | water                        | continuous                   |
| 2-piperazin-1-ylethylamine            | 140-31-8 | PNEC      | 0.058 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| 2-piperazin-1-ylethylamine            | 140-31-8 | PNEC      | 0.0058 mg/l     | aquatic organisms     | marine water                 | short-term (single instance) |
| 2-piperazin-1-ylethylamine            | 140-31-8 | PNEC      | 250 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| 2-piperazin-1-ylethylamine            | 140-31-8 | PNEC      | 215 mg/kg       | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| 2-piperazin-1-ylethylamine            | 140-31-8 | PNEC      | 21.5 mg/kg      | aquatic organisms     | marine sediment              | short-term (single instance) |
| 2-piperazin-1-ylethylamine            | 140-31-8 | PNEC      | 42.9 mg/kg      | terrestrial organisms | soil                         | short-term (single instance) |
| 2-piperazin-1-ylethylamine            | 140-31-8 | PNEC      | 0.58 mg/l       | aquatic organisms     | water                        | continuous                   |
| 2-(2-aminoethylamino)ethanol          | 111-41-1 | PNEC      | 0.022 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| 2-(2-aminoethylamino)ethanol          | 111-41-1 | PNEC      | 0.0022 mg/l     | aquatic organisms     | marine water                 | short-term (single instance) |
| 2-(2-aminoethylamino)ethanol          | 111-41-1 | PNEC      | 82.2 mg/l       | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| 2-(2-aminoethylamino)ethanol          | 111-41-1 | PNEC      | 1.3 mg/kg       | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| 2-(2-aminoethylamino)ethanol          | 111-41-1 | PNEC      | 0.13 mg/kg      | aquatic organisms     | marine sediment              | short-term (single instance) |
| 2-(2-aminoethylamino)ethanol          | 111-41-1 | PNEC      | 0.246 mg/kg     | terrestrial organisms | soil                         | short-term (single instance) |
| 2-(2-aminoethylamino)ethanol          | 111-41-1 | PNEC      | 0.22 mg/l       | aquatic organisms     | water                        | continuous                   |

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### 8.2 Exposure controls

**Appropriate engineering controls**

Provide local exhaust or general room ventilation to minimize vapor concentrations.

**Individual protection measures (personal protective equipment)**

**Eye/face protection**



Use safety goggle with side protection.

**Skin protection**

- **hand protection**



Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- **type of material**

PVC: polyvinyl chloride, Nitrile rubber, Butyl rubber

- **material thickness**

> 0.5 mm.

- **breakthrough times of the glove material**

>480 minutes (permeation: level 6)

- **other protection measures**



Protective clothing against liquid chemicals.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

### SECTION 9: Physical and chemical properties

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

**Appearance**

|                |                |
|----------------|----------------|
| Physical state | liquid         |
| Colour         | colourless     |
| Odour          | characteristic |

**Other physical and chemical parameters**

|   |                      |
|---|----------------------|
| pH (value)                              | not determined       |
| Melting point/freezing point            | <0 °C                |
| Initial boiling point and boiling range | >100 °C at 101.3 kPa |
| Flash point                             | >62 °C               |
| Evaporation rate                        | not determined       |
| Flammability (solid, gas)               | not relevant (fluid) |



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|                               |                                    |
|-------------------------------|------------------------------------|
| Explosive limits              |                                    |
| • lower explosion limit (LEL) | 1.1 vol%                           |
| • upper explosion limit (UEL) | 9.4 vol%                           |
| Vapour pressure               | 5.15 Pa at 20 °C                   |
| Density                       | 0.97 g/cm <sup>3</sup> at 20 °C    |
| Vapour density                | >1 (air=1)                         |
| Relative density              | 0.97 air = 1                       |
| Solubility(ies)               | not determined                     |
| Water solubility              | partially soluble                  |
| Partition coefficient         |                                    |
| n-octanol/water (log KOW)     | This information is not available. |
| Auto-ignition temperature     | 230 °C                             |
| Viscosity                     | not determined                     |
| Explosive properties          | none                               |
| Oxidising properties          | none                               |

### 9.2 Other information

Of no significance.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Avoid extremely high (> 50 ° C) or low (<5 ° C) temperatures.

**Physical stresses which might result in a hazardous situation and have to be avoided**

strong shocks

### 10.5 Incompatible materials

acids - bases - oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

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- **as a result of heating**  
carbon monoxide (CO) - carbon dioxide (CO<sub>2</sub>)

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

##### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

##### Classification according to GHS (1272/2008/EC, CLP)

##### Acute toxicity

Shall not be classified as acutely toxic.

##### • Acute toxicity of components of the mixture

| Name of substance                | CAS No     | Exposure route | ATE   |
|----------------------------------|------------|----------------|-------|
| Bis (dimethylaminomethyl) phenol | 71074-89-0 | oral           | 500   |
| Bis (dimethylaminomethyl) phenol | 71074-89-0 | dermal         | 1,100 |
| 2-piperazin-1-ylethylamine       | 140-31-8   | oral           | 500   |
| 2-piperazin-1-ylethylamine       | 140-31-8   | dermal         | 866   |

##### Skin corrosion/irritation

Causes severe skin burns and eye damage.

##### Serious eye damage/eye irritation

Causes serious eye damage.

##### Respiratory or skin sensitisation

May cause an allergic skin reaction.

##### Summary of evaluation of the CMR properties

Suspected of damaging fertility.

Shall not be classified as germ cell mutagenic.

Shall not be classified as carcinogenic.

##### Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

##### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

Toxic to aquatic life.

##### Aquatic toxicity (acute)

##### Aquatic toxicity (acute) of components of the mixture

| Name of substance                     | CAS No    | Endpoint | Value       | Species               | Exposure time |
|---------------------------------------|-----------|----------|-------------|-----------------------|---------------|
| Polyoxypropylenediamine               | 9046-10-0 | EC50     | >15 mg/l    | fish                  | 96 hours      |
| Polyoxypropylenediamine               | 9046-10-0 | LC50     | 772.1 mg/l  | fish                  | 96 hours      |
| Polyoxypropylenediamine               | 9046-10-0 | ErC50    | 15 mg/l     | algae                 | 72 hours      |
| 4-tert-butylphenol                    | 98-54-4   | LC50     | >1 mg/l     | fish                  | 96 hours      |
| 4-tert-butylphenol                    | 98-54-4   | EC50     | 4.8 mg/l    | aquatic invertebrates | 48 hours      |
| 4-tert-butylphenol                    | 98-54-4   | ErC50    | 14 mg/l     | algae                 | 72 hours      |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2   | ErC50    | 84 mg/l     | algae                 | 72 hours      |
| 2-piperazin-1-ylethylamine            | 140-31-8  | LC50     | 2,190 mg/l  | fish                  | 96 hours      |
| 2-piperazin-1-ylethylamine            | 140-31-8  | EC50     | 58 mg/l     | aquatic invertebrates | 48 hours      |
| 2-piperazin-1-ylethylamine            | 140-31-8  | ErC50    | >1,000 mg/l | algae                 | 72 hours      |
| 2-(2-aminoethylamino)ethanol          | 111-41-1  | EC50     | 22 mg/l     | aquatic invertebrates | 48 hours      |
| 2-(2-aminoethylamino)ethanol          | 111-41-1  | ErC50    | 358 mg/l    | algae                 | 72 hours      |

##### Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

##### Aquatic toxicity (chronic) of components of the mixture

| Name of substance            | CAS No    | Endpoint | Value      | Species               | Exposure time |
|------------------------------|-----------|----------|------------|-----------------------|---------------|
| Polyoxypropylenediamine      | 9046-10-0 | EC50     | 750 mg/l   | microorganisms        | 3 h           |
| 4-tert-butylphenol           | 98-54-4   | EC50     | 8.1 mg/l   | aquatic invertebrates | 24 h          |
| 2-piperazin-1-ylethylamine   | 140-31-8  | EC50     | 511 mg/l   | microorganisms        | 2 h           |
| 2-(2-aminoethylamino)ethanol | 111-41-1  | EC50     | 134.8 mg/l | microorganisms        | 17 h          |

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### 12.2 Process of degradability

Data are not available.

#### Degradability of components of the mixture

| Name of substance                     | CAS No    | Process                   | Degradation rate | Time |
|---------------------------------------|-----------|---------------------------|------------------|------|
| Polyoxypropylenediamine               | 9046-10-0 | carbon dioxide generation | 0 %              | 28 d |
| 4-tert-butylphenol                    | 98-54-4   | oxygen depletion          | 60 %             | 28 d |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2   | oxygen depletion          | 4 %              | 28 d |
| 2-piperazin-1-ylethylamine            | 140-31-8  | oxygen depletion          | 0 %              | 28 d |
| 2-piperazin-1-ylethylamine            | 140-31-8  | carbon dioxide generation | 0 %              | 28 d |
| 2-piperazin-1-ylethylamine            | 140-31-8  | DOC removal               | 0 %              | 28 d |
| 2-(2-aminoethylamino)ethanol          | 111-41-1  | oxygen depletion          | >60 %            | 28 d |

### 12.3 Bioaccumulative potential

Data are not available.

#### Bioaccumulative potential of components of the mixture

| Name of substance            | CAS No    | BCF   | Log KOW | BOD5/COD |
|------------------------------|-----------|-------|---------|----------|
| Polyoxypropylenediamine      | 9046-10-0 |       | 1.34    |          |
| 4-tert-butylphenol           | 98-54-4   | 2,043 | 3       |          |
| 2-piperazin-1-ylethylamine   | 140-31-8  |       | -1.48   |          |
| 2-(2-aminoethylamino)ethanol | 111-41-1  | <0.2  | -1.46   |          |

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Other adverse effects

Data are not available.

#### Endocrine disrupting potential

The mixture contains substance(s) with an endocrine disrupting potential.

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| Name of substance  | CAS No  | Combined category | Human health category | Wildlife category |
|--------------------|---------|-------------------|-----------------------|-------------------|
| 4-tert-butylphenol | 98-54-4 | CAT2              | CAT2                  | CAT2              |

**Legend**

CAT2      Category 2 - at least some in vitro evidence of biological activity related to endocrine disruption

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**Sewage disposal-relevant information**

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

**Waste treatment of containers/packagings**

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### 13.2 Relevant provisions relating to waste

**List of wastes**

08 04 09x  
waste adhesives and sealants containing organic solvents or other dangerous substances

#### 13.3 Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### SECTION 14: Transport information

**14.1 UN number**      **2735**

**14.2 UN proper shipping name**      **AMINES, LIQUID, CORROSIVE, N.O.S.**

Hazardous ingredients      2-piperazin-1-ylethylamine, Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl groups

**14.3 Transport hazard class(es)**  
Class      8 (corrosive substances)

**14.4 Packing group**      III (substance presenting low danger)

**14.5 Environmental hazards**      hazardous to the aquatic environment (Reaction products of propane-1,2-diol, propoxylated by amination of the terminal hydroxyl groups)

**14.6 Special precautions for user**  
Provisions for dangerous goods (ADR) should be complied within the premises.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
The cargo is not intended to be carried in bulk.

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**14.8 Information for each of the UN Model Regulations**

• **Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)**

|                      |                                   |
|----------------------|-----------------------------------|
| UN number            | 2735                              |
| Proper shipping name | AMINES, LIQUID, CORROSIVE, N.O.S. |
| Class                | 8                                 |
| Classification code  | C7                                |
| Packing group        | III                               |
| Danger label(s)      | 8 + "fish and tree"               |



|                               |  |
|-------------------------------|--|
| Environmental hazards         | yes (hazardous to the aquatic environment) |
| Special provisions (SP)       | 274  |
| Excepted quantities (EQ)      | E1   |
| Limited quantities (LQ)       | 5 L  |
| Transport category (TC)       | 3  |
| Tunnel restriction code (TRC) | E  |
| Hazard identification No      | 80   |

• **International Maritime Dangerous Goods Code (IMDG)**

|                      |  |
|----------------------|--|
| UN number            | 2735                                       |
| Proper shipping name | AMINES, LIQUID, CORROSIVE, N.O.S.          |
| Class                | 8  |
| Marine pollutant     | yes (hazardous to the aquatic environment) |
| Packing group        | III  |
| Danger label(s)      | 8 + "fish and tree"                        |



|                          |              |
|--------------------------|--------------|
| Special provisions (SP)  | 223, 274     |
| Excepted quantities (EQ) | E1           |
| Limited quantities (LQ)  | 5 L          |
| EmS                      | F-A, S-B     |
| Stowage category         | A            |
| Segregation group        | 18 - Alkalis |

• **International Civil Aviation Organization (ICAO-IATA/DGR)**

|                       |  |
|-----------------------|--|
| UN number             | 2735                                       |
| Proper shipping name  | Amines, liquid, corrosive, n.o.s.          |
| Class                 | 8  |
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Packing group         | III  |
| Danger label(s)       | 8  |

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|                          |         |
|--------------------------|---------|
| Special provisions (SP)  | A3, 274 |
| Excepted quantities (EQ) | E1      |
| Limited quantities (LQ)  | 1 L     |

### SECTION 15: Regulatory information

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

##### Relevant provisions of the European Union (EU)

- **Restrictions according to REACH, Annex XVII**

None of the ingredients are listed.

- **List of substances subject to authorisation (REACH, Annex XIV)**

None of the ingredients are listed.

- **Seveso Directive**

| No | Dangerous substance/hazard categories                                | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements |     | Notes |
|----|--|---|-----|-------|
| E2 | environmental hazards (hazardous to the aquatic environment, cat. 2) | 200   | 500 | 57)   |

##### Notation

57) Hazardous to the Aquatic Environment in category Chronic 2

##### Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

##### Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

##### Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

None of the ingredients are listed.

##### National regulations (Switzerland)

##### Ordinance on the incentive tax on volatile organic compounds (VOCV)

VOC content (object of taxation):

#### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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### SECTION 16: Other information

#### Abbreviations and acronyms

| Abbr.           | Descriptions of used abbreviations  |
|-----------------|---|
| Acute Tox.      | acute toxicity  |
| ADN             | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR             | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)                                       |
| Aquatic Chronic | hazardous to the aquatic environment - chronic hazard   |
| ATE             | Acute Toxicity Estimate   |
| BCF             | BioConcentration Factor   |
| BOD             | Biochemical Oxygen Demand   |
| C               | corrosive   |
| CAS             | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| CLP             | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| CMR             | Carcinogenic, Mutagenic or toxic for Reproduction   |
| COD             | chemical oxygen demand  |
| DMEL            | Derived Minimal Effect Level  |
| DNEL            | Derived No-Effect Level   |
| EC No           | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)                                     |
| EmS             | Emergency Schedule  |
| Eye Dam.        | seriously damaging to the eye   |
| Eye Irrit.      | irritant to the eye   |
| GHS             | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA/DGR        | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO            | International Civil Aviation Organization   |
| IMDG            | International Maritime Dangerous Goods Code   |
| Lact.           | effects on or via lactation   |
| log KOW         | n-octanol/water   |
| MARPOL          | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")   |
| N               | dangerous for the environment   |
| PBT             | Persistent, Bioaccumulative and Toxic   |
| PNEC            | Predicted No-Effect Concentration   |
| REACH           | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| Repr.           | reproductive toxicity   |
| RID             | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)   |
| Skin Corr.      | corrosive to skin   |
| Skin Irrit.     | irritant to skin  |
| Skin Sens.      | skin sensitisation  |



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| Abbr.   | Descriptions of used abbreviations               |
|---------|--|
| STOT SE | specific target organ toxicity - single exposure |
| vPvB    | very Persistent and very Bioaccumulative         |
| Xi      | irritant   |
| Xn      | harmful  |

### Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 453/2010/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.  
 Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code   | Text   |
|--------|--|
| 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  |
| H335   | may cause respiratory irritation   |
| H360Df | may damage the unborn child. Suspected of damaging, fertility                                |
| H361f  | suspected of damaging fertility  |
| H362   | may cause harm to breast-fed children  |
| H410   | very toxic to aquatic life with long lasting effects   |
| H411   | toxic to aquatic life with long lasting effects  |
| H412   | harmful to aquatic life with long lasting effects  |
| R21/22 | harmful in contact with skin and if swallowed  |
| R34    | causes burns   |
| R38    | irritating to skin   |
| R41    | risk of serious damage to eyes   |
| R43    | may cause sensitisation by skin contact  |
| R51/53 | toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment   |
| R52/53 | harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R61    | may cause harm to the unborn child   |
| R62    | possible risk of impaired fertility  |
| R64    | may cause harm to breastfed babies   |



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

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### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.