

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.02.2021

Version number 304

Revision: 23.02.2021

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

- **1.1 Product identifier**
- **Trade name:** Rust Converter E-COLL
- **Article number:** 4317784499910
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
  - SU21 Consumer uses: Private households / general public / consumers
  - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Application of the substance / the mixture** Penetrating oil
- **Uses advised against** Food
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
  - E/D/E - Einkaufsbuero Deutscher Eisenhaendler GmbH
  - EDE Platz 1
  - D-42389 Wuppertal
  - Germany

Tel. +49 202 6096-0  
e-mail: sdb@ede.de
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:** Giftinformationszentrum Mainz – Tel.: +49 (6131) 19240

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

|               |           |  |
|---------------|-----------|--|
| Aerosol 1     | H222-H229 | Extremely flammable aerosol. Pressurised container: May burst if heated. |
| Skin Irrit. 2 | H315      | Causes skin irritation.  |
| Eye Irrit. 2  | H319      | Causes serious eye irritation.   |
| Skin Sens. 1  | H317      | May cause an allergic skin reaction.                                     |

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger

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**Hazard-determining components of labelling:**

 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)

**Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P211 Do not spray on an open flame or other ignition source.  
 P251 Do not pierce or burn, even after use.  
 P261 Avoid breathing spray.  
 P280 Wear protective gloves / eye protection / face protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P321 Specific treatment (see on this label).  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards**
**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

 • **Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

|  |  |        |
|--|--|--------|
| CAS: 115-10-6<br>EINECS: 204-065-8<br>Index number: 603-019-00-8<br>Reg.nr.: 01-2119472128-37-xxxx | dimethyl ether<br>⚠ Flam. Gas 1A, H220<br>Press. Gas (Comp.), H280   | 30-50% |
| CAS: 111-76-2<br>EINECS: 203-905-0<br>Index number: 603-014-00-0<br>Reg.nr.: 01-2119475108-36-xxxx | 2-butoxyethanol<br>⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 | 1-10%  |
| CAS: 1330-20-7<br>EINECS: 215-535-7<br>Index number: 601-022-00-9<br>Reg.nr.: 01-2119486136-34     | xylene<br>⚠ Flam. Liq. 3, H226<br>⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335         | 1-10%  |

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|   |  |       |
|---|--|-------|
| CAS: 67-63-0<br>EINECS: 200-661-7<br>Index number: 603-117-00-0<br>Reg.nr.: 01-2119457558-25-xxxx                           | propan-2-ol<br>⚠ Flam. Liq. 2, H225<br>⚠ Eye Irrit. 2, H319; STOT SE 3, H336   | 1-10% |
| CAS: 71-36-3<br>EINECS: 200-751-6<br>Index number: 603-004-00-6<br>Reg.nr.: 01-2119484630-38-xxxx                           | butan-1-ol<br>⚠ Flam. Liq. 3, H226<br>⚠ Eye Dam. 1, H318<br>⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336  | 1-10% |
| CAS: 123-86-4<br>EINECS: 204-658-1<br>Index number: 607-025-00-1<br>Reg.nr.: 01-2119485493-29-xxxx<br>01-2119485493-29-0059 | n-butyl acetate<br>⚠ Flam. Liq. 3, H226<br>⚠ STOT SE 3, H336<br>EUH066   | 1-10% |
| CAS: 25068-38-6<br>NLP: 500-033-5<br>Index number: 603-074-00-8   | reaction product: bisphenol-A-(epichlorhydrin) epoxy resin<br>(number average molecular weight $\leq$ 700)<br>⚠ Aquatic Chronic 2, H411<br>⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317<br>EUH205<br>Specific concentration limits: Eye Irrit. 2; H319: C $\geq$ 5 %<br>Skin Irrit. 2; H315: C $\geq$ 5 % | 1-10% |
| EC number: 918-668-5<br>Index number: 649-356-00-4<br>Reg.nr.: 01-2119455851-35-xxxx  | Solvent naphtha (petroleum), light arom.<br>⚠ Flam. Liq. 3, H226<br>⚠ Asp. Tox. 1, H304<br>⚠ Aquatic Chronic 2, H411<br>⚠ STOT SE 3, H335-H336   | 1-10% |

• **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

less than 5 %  
aromatic hydrocarbons

• **Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

• **4.1 Description of first aid measures**

• **General information:**

Personal protection for the First Aider.  
Immediately remove any clothing soiled by the product.

• **After inhalation:**

Supply fresh air.  
Seek medical treatment in case of complaints.

• **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.

• **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** Can form explosive gas-air mixtures.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Open and handle receptacle with care.

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Use only in well ventilated areas.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Do not spray onto a naked flame or any incandescent material.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

**Information about storage in one common storage facility:** Store away from oxidising agents.**Further information about storage conditions:**

Keep container tightly sealed.

Protect from heat and direct sunlight.

**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 115-10-6 dimethyl ether**IOELV Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm**CAS: 111-76-2 2-butoxyethanol**IOELV Short-term value: 246 mg/m<sup>3</sup>, 50 ppmLong-term value: 98 mg/m<sup>3</sup>, 20 ppm

Skin

**CAS: 1330-20-7 xylene**IOELV Short-term value: 442 mg/m<sup>3</sup>, 100 ppmLong-term value: 221 mg/m<sup>3</sup>, 50 ppm

Skin

**CAS: 123-86-4 n-butyl acetate**IOELV Short-term value: 723 mg/m<sup>3</sup>, 150 ppmLong-term value: 241 mg/m<sup>3</sup>, 50 ppm**Additional information:** The lists valid during the making were used as basis.**8.2 Exposure controls****Appropriate engineering controls** No further data; see item 7.

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- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:**  
Not necessary if room is well-ventilated.  
Respiratory protection is not required when used properly and under normal conditions.

**Hand protection**

Protective gloves

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.  
Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.4$  mm

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection**

Tightly sealed goggles

- **Body protection:** Protective work clothing

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information**

- **Colour:** Light beige
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** Not applicable, as aerosol.
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** 1.1 Vol %
- **Upper:** 18.6 Vol %
- **Flash point:** -41 °C
- **Auto-ignition temperature:** Product is not selfigniting.
- **Decomposition temperature:** Not determined.

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|   |                                   |
|---|-----------------------------------|
| · pH  | Not determined.                   |
| · Viscosity:  |                                   |
| · Kinematic viscosity                               | Not determined.                   |
| · Kinematic: 23 °C - 4 mm (ISO 2431)                |                                   |
| · Dynamic:  | Not determined.                   |
| · Solubility  |                                   |
| · water:  | Not miscible or difficult to mix. |
| · Partition coefficient n-octanol/water (log value) | Not determined.                   |
| · Vapour pressure at 20 °C:                         | 6,000 hPa                         |
| · Density and/or relative density                   |                                   |
| · Density at 20 °C:                                 | 0.77 g/cm <sup>3</sup>            |
| · Relative density                                  | Not determined.                   |
| · Vapour density                                    | Not determined.                   |

**9.2 Other information**

|   |                 |
|---|-----------------|
| · Appearance:   |                 |
| · Form:   | Aerosol         |
| · Important information on protection of health and environment, and on safety. |                 |
| · Ignition temperature:   | 235 °C          |
| · Explosive properties:   | Not determined. |
| · Solvent separation test:  |                 |
| · Organic solvents:   | 67.8 %          |
| · Water:  | 20 %            |
| · VOC (EC) %  | 67.75 %         |
| · Change in condition   |                 |
| · Softening point/range   |                 |
| · Oxidising properties  | Not determined. |
| · Evaporation rate  | Not applicable. |

**Information with regard to physical hazard classes**

|  |      |
|--|------|
| · Explosives   | Void |
| · Flammable gases  | Void |
| · Aerosols   |      |
| Extremely flammable aerosol. Pressurised container: May burst if heated. |      |

|   |      |
|---|------|
| · Oxidising gases   | Void |
| · Gases under pressure  | Void |
| · Flammable liquids   | Void |
| · Flammable solids  | Void |
| · Self-reactive substances and mixtures                                     | Void |
| · Pyrophoric liquids  | Void |
| · Pyrophoric solids   | Void |
| · Self-heating substances and mixtures                                      | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids   | Void |
| · Oxidising solids  | Void |
| · Organic peroxides   | Void |
| · Corrosive to metals   | Void |
| · Desensitised explosives   | Void |

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**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:****CAS: 115-10-6 dimethyl ether**

Inhalative LC50/4h 308 ppm (rat)

**CAS: 111-76-2 2-butoxyethanol**

Oral LD50 1,480 mg/kg (rat)

Dermal LD50 400 mg/kg (rab)

**CAS: 1330-20-7 xylene**

Oral LD50 4,300 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rabbit)

**CAS: 67-63-0 propan-2-ol**

Oral LD50 5,045 mg/kg (rat)

Dermal LD50 12,800 mg/kg (rabbit)

Inhalative LC50/4h 30 ppm (rat)

**CAS: 71-36-3 butan-1-ol**

Oral LD50 790 mg/kg (rat)

Dermal LD50 3,400 mg/kg (rabbit)

Inhalative LC50/4h 8,000 ppm (rat)

**CAS: 123-86-4 n-butyl acetate**

Oral LD50 13,100 mg/kg (rat)

Dermal LD50 &gt;5,000 mg/kg (rabbit)

Inhalative LC50/4h &gt;21 ppm (rat)

**CAS: 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)**

Oral LD50 11,400 mg/kg (rat)

Dermal LD50 22,800 mg/kg (rabbit) (GESTIS)

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**Solvent naphtha (petroleum), light arom.**

|            |         |                    |
|------------|---------|--------------------|
| Oral       | LD50    | >6,800 mg/kg (rat) |
| Dermal     | LD50    | >3,400 mg/kg (rab) |
| Inhalative | LC50/4h | >10.2 ppm (rat)    |

**• Skin corrosion/irritation**

Causes skin irritation.

**• Serious eye damage/irritation**

Causes serious eye irritation.

**• Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**• Germ cell mutagenicity** Based on available data, the classification criteria are not met.**• Carcinogenicity** Based on available data, the classification criteria are not met.**• Reproductive toxicity** Based on available data, the classification criteria are not met.**• STOT-single exposure** Based on available data, the classification criteria are not met.**• STOT-repeated exposure** Based on available data, the classification criteria are not met.**• Aspiration hazard** Based on available data, the classification criteria are not met.**• 11.2 Information on other hazards****• Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information****• 12.1 Toxicity****• Aquatic toxicity:****CAS: 123-86-4 n-butyl acetate**

|            |                               |
|------------|-------------------------------|
| LC50 (96h) | 18 mg/L (Pimephales promelas) |
| EC50 (48h) | 44 mg/L (Daphnia magna)       |
| EC50/24h   | 73 mg/l (Daphnia magna)       |
| EC50/72h   | 647.7 mg/l (S)                |

**• 12.2 Persistence and degradability** No further relevant information available.**• 12.3 Bioaccumulative potential** No further relevant information available.**• 12.4 Mobility in soil** No further relevant information available.**• 12.5 Results of PBT and vPvB assessment****• PBT:** Not applicable.**• vPvB:** Not applicable.

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**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects****Additional ecological information:****General notes:**Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.**SECTION 13: Disposal considerations****13.1 Waste treatment methods:**Containers can be recycled if completely empty; if not, dispose product/containers as dangerous waste.  
Observe local regulations.**European waste catalogue**

|           |  |
|-----------|--|
| 15 01 10* | packaging containing residues of or contaminated by hazardous substances |
| 15 01 04  | metallic packaging   |

**SECTION 14: Transport information****14.1 UN number or ID number****ADR, IMDG, IATA** UN1950**14.2 UN proper shipping name****ADR** UN1950 AEROSOLS  
**IMDG, IATA** AEROSOLS**14.3 Transport hazard class(es)****ADR****Class** 2.5F Gases.  
**Label** 2.1**IMDG, IATA****Class** 2 Gases.  
**Label** 2.1**14.4 Packing group****ADR, IMDG, IATA** Void

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- **14.5 Environmental hazards:**
  - **Marine pollutant:** No
  
  - **14.6 Special precautions for user** Warning: Gases.
  - **Hazard identification number (Kemler code):** -
  - **EMS Number:** F-D,S-U
  - **Stowage Code** SW1 Protected from sources of heat.  
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
  
  - **Segregation Code** SG69 For AEROSOLS with a maximum capacity of 1 litre:  
Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.  
For AEROSOLS with a capacity above 1 litre:  
Segregation as for the appropriate subdivision of class 2.  
For WASTE AEROSOLS:  
Segregation as for the appropriate subdivision of class 2.
  
  - **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
  
  - **Transport/Additional information:**
- 
- **ADR**
  - **Limited quantities (LQ)** 1L
  - **Excepted quantities (EQ)** Code: E0  
Not permitted as Excepted Quantity
  
  - **Transport category** 2
  - **Tunnel restriction code** D
- 
- **IMDG**
  - **Limited quantities (LQ)** 1L
  - **Excepted quantities (EQ)** Code: E0  
Not permitted as Excepted Quantity
  
  - **UN "Model Regulation":** UN 1950 AEROSOLS, 2.1

**SECTION 15: Regulatory information**

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

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**· REGULATION (EU) 2019/1148****· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**· Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**· Exposure scenario(s)**Exposure scenario(s) of ingredients (if present) are available on request at:  
sdb@ede.de**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Relevant phrases**

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- 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.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- EUH205 Contains epoxy constituents. May produce an allergic reaction.

**· Date of previous version: 23.02.2021****· Version number of previous version: 303****· Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Gas 1A: Flammable gases – Category 1A  
Aerosol 1: Aerosols – Category 1  
Press. Gas (Comp.): Gases under pressure – Compressed gas  
Flam. Liq. 2: Flammable liquids – Category 2  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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**· \* Data compared to the previous version altered.**

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