

## Safety Data Sheet

according to UK REACH Regulation

### ResiFix Epoxyacrylate EY, Comp. A

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

##### 1.1. Product identifier

ResiFix Epoxyacrylate EY, Comp. A

UFI: AW10-90XY-X004-DRKV

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

###### Use of the substance/mixture

Adhesive mortar for fastening elements A-component (resin)

###### Uses advised against

no restriction

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

Company name: CELO Befestigungssysteme GmbH

Street: Industriestr. 6

Place: D-86551 Aichach

Telephone: +49 (0) 8251 90485 0

Telefax: +49 (0) 8251 90485 49

e-mail: info@celofixings.com

##### 1.4. Emergency telephone number:

+49 (0) 89 19240 Giftnotruf München (24 h, German and English)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### GB CLP Regulation

Skin Irrit. 2; H315

Eye Irrit. 2; H319

Repr. 2; H361d

STOT RE 1; H372

Full text of hazard statements: see SECTION 16.

##### 2.2. Label elements

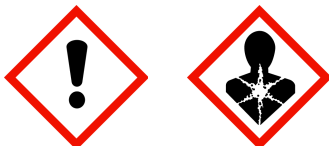
###### GB CLP Regulation

###### Hazard components for labelling

Styrene

Signal word: Danger

###### Pictograms:



###### Hazard statements

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H361d

Suspected of damaging the unborn child.

H372

Causes damage to organs through prolonged or repeated exposure.

###### Precautionary statements

P260

Do not breathe vapour.

P271

Use only outdoors or in a well-ventilated area.

P280

Wear protective gloves and eye/face protection.

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313

IF exposed or concerned: Get medical advice/attention.

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P337+P313 If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. (--> UK REACH)

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

| CAS No   | Chemical name   |              |                  | Quantity      |
|----------|---|--------------|------------------|---------------|
|          | EC No   | Index No     | REACH No         |               |
|          | Classification (GB CLP Regulation)  |              |                  |               |
| 100-42-5 | Styrene   |              |                  | 5 - < 25 %    |
|          | 202-851-5   | 601-026-00-0 | 01-2119457861-32 |               |
|          | Flam. Liq. 3, Repr. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 3; H226 H361d H332 H315 H319 H335 H372 H304 H412 |              |                  |               |
| 121-69-7 | N,N-dimethylaniline   |              |                  | 0,1 - < 0,5 % |
|          | 204-493-5   | 612-016-00-0 | 01-2119935241-47 |               |
|          | Carc. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Aquatic Chronic 2; H351 H331 H311 H301 H411  |              |                  |               |
| 130-15-4 | 1,4-naphthoquinone  |              |                  | < 0,05 %      |
|          | 204-977-6   |              | 01-2120760462-57 |               |
|          | Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H330 H301 H314 H318 H317 H335 H400 H410           |              |                  |               |

Full text of H and EUH statements: see section 16.

##### Specific Conc. Limits, M-factors and ATE

| CAS No   | EC No     | Chemical name   | Quantity      |
|----------|-----------|---|---------------|
|          |           | Specific Conc. Limits, M-factors and ATE  |               |
| 100-42-5 | 202-851-5 | Styrene   | 5 - < 25 %    |
|          |           | inhalation: LC50 = 12 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = > 5000 mg/kg  |               |
| 121-69-7 | 204-493-5 | N,N-dimethylaniline   | 0,1 - < 0,5 % |
|          |           | inhalation: LC50 = 0,25 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = 1700 mg/kg; oral: LD50 = 951 mg/kg                                |               |
| 130-15-4 | 204-977-6 | 1,4-naphthoquinone  | < 0,05 %      |
|          |           | inhalation: ATE = 0,5 mg/l (vapours); inhalation: LC50 = 0,046 mg/l (dusts or mists); oral: LD50 = 124 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1 |               |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

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**After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

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

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Suspected of damaging the unborn child.

May cause damage to organs through prolonged or repeated exposure.

**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**

Foam

Extinguishing powder

Water spray jet

Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

Pyrolysis products, toxic

Carbon monoxide

**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Use personal protective equipment as required. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

**6.2. Environmental precautions**

Avoid release to the environment. Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****For cleaning up**

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand

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Treat the recovered material as prescribed in the section on waste disposal.  
Retain contaminated washing water and dispose it.

**6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Use only outdoors or in a well-ventilated area.  
Wear personal protection equipment (refer to section 8).  
Avoid contact with skin, eyes and clothes.  
When using do not eat, drink or smoke.  
Wash hands thoroughly after handling.  
Take off contaminated clothing and wash it before reuse.

**Advice on general occupational hygiene**

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme.  
Wash hands thoroughly after handling. When using do not eat, drink or smoke. Avoid contact during pregnancy and while nursing.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep container tightly closed.  
Store in a place accessible by authorized persons only.  
Keep only in the original container in a cool, well-ventilated place.

**Hints on joint storage**

Do not use for products which come into contact with the food stuffs.

**Further information on storage conditions**

storage temperature: 5 - 25°C

**7.3. Specific end use(s)**

Adhesive mortar for fastening elements A-component (resin)

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limits (EH40)**

| CAS No   | Substance           | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|----------|---------------------|-----|-------------------|-----------|---------------|--------|
| 121-69-7 | N,N-Dimethylaniline | 5   | 25                |           | TWA (8 h)     | WEL    |
|          |                     | 10  | 50                |           | STEL (15 min) | WEL    |
| 100-42-5 | Styrene             | 100 | 430               |           | TWA (8 h)     | WEL    |
|          |                     | 250 | 1080              |           | STEL (15 min) | WEL    |

**DNEL/DMEL values**

| CAS No                 | Substance          | Exposure route | Effect   | Value                   |
|------------------------|--------------------|----------------|----------|-------------------------|
| 130-15-4               | 1,4-naphthoquinone |                |          |                         |
| Worker DNEL, long-term |                    | inhalation     | systemic | 0,033 mg/m <sup>3</sup> |

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**PNEC values**

| CAS No   | Substance          | Value      |
|--|--------------------|------------|
| Environmental compartment                        |                    |            |
| 130-15-4   | 1,4-naphthoquinone |            |
| Freshwater                                       |                    | 26,1 mg/l  |
| Marine water                                     |                    | 2,61 mg/l  |
| Freshwater sediment                              |                    | 321 mg/kg  |
| Marine sediment                                  |                    | 32,1 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |                    | 0,172 mg/l |
| Soil   |                    | 49 mg/kg   |

**Additional advice on limit values**

This mixture contains quartz (inorganic filler) which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded. Exposure limit values for respirable dusts are not relevant for this product.

**8.2. Exposure controls**



**Appropriate engineering controls**

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Wear eye/face protection. Wear safety glasses.

**Hand protection**

Disposable gloves  
Recommended material: NBR (Nitrile rubber)  
Breakthrough time: > 480 min  
Thickness of the glove material: > 0,2 mm  
DIN-/EN-Norms EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Respiratory protection with combination filter A1P2 (organic gases/vapors and particles) recommended.

**SECTION 9: Physical and chemical properties**

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

|                               |                   |                   |
|-------------------------------|-------------------|-------------------|
| Physical state:               | solid (pasty)     |                   |
| Colour:                       | light beige       |                   |
| Odour:                        | characteristic    |                   |
| Odour threshold:              | No data available |                   |
| Melting point/freezing point: |                   | No data available |

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|   |  |
|---|--|
| Boiling point or initial boiling point and boiling range: | No data available  |
| Flammability:   | Non-flammable.   |
| Lower explosion limits:                                   | not applicable   |
| Upper explosion limits:                                   | not applicable   |
| Flash point:  | not applicable   |
| Auto-ignition temperature:                                | not applicable   |
| Decomposition temperature:                                | No data available  |
| pH-Value:   | The study does not need to be conducted because the substance is known to be insoluble in water. |
| Viscosity / kinematic:                                    | not applicable   |
| Water solubility:   | The study does not need to be conducted because the substance is known to be insoluble in water. |
| Solubility in other solvents                              |  |
| No data available   |  |
| Partition coefficient n-octanol/water:                    | not applicable   |
| Vapour pressure:  | No data available  |
| Density (at 20 °C):                                       | 1,71 g/cm <sup>3</sup>   |
| Relative vapour density:                                  | not applicable   |
| Particle characteristics:                                 | No data available  |

**9.2. Other information****Information with regard to physical hazard classes**

Explosive properties

The product is not: Explosive.

Self-ignition temperature

Solid:

not applicable

Oxidizing properties

Not oxidising.

**Other safety characteristics**

Evaporation rate:

No data available

Solid content:

No data available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Response: Oxidising agent, strong

**10.4. Conditions to avoid**

Heat. Keep cool. Protect from sunlight.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation**

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#### Acute toxicity

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

| CAS No   | Chemical name              |                   |         |        |        |
|----------|----------------------------|-------------------|---------|--------|--------|
|          | Exposure route             | Dose              | Species | Source | Method |
| 100-42-5 | Styrene                    |                   |         |        |        |
|          | oral                       | LD50 > 5000 mg/kg | Rat     |        |        |
|          | inhalation (4 h) vapour    | LC50 12 mg/l      | Rat     |        |        |
|          | inhalation dust/mist       | ATE 1,5 mg/l      |         |        |        |
| 121-69-7 | N,N-dimethylaniline        |                   |         |        |        |
|          | oral                       | LD50 951 mg/kg    | Rat     |        |        |
|          | dermal                     | LD50 1700 mg/kg   | Rabbit  |        |        |
|          | inhalation (4 h) vapour    | LC50 0,25 mg/l    | Rat     |        |        |
|          | inhalation dust/mist       | ATE 0,5 mg/l      |         |        |        |
| 130-15-4 | 1,4-naphthoquinone         |                   |         |        |        |
|          | oral                       | LD50 124 mg/kg    | Rat     |        |        |
|          | inhalation vapour          | ATE 0,5 mg/l      |         |        |        |
|          | inhalation (4 h) dust/mist | LC50 0,046 mg/l   | Rat     |        |        |

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging the unborn child. (Styrene)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: 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

Causes damage to organs through prolonged or repeated exposure. (Styrene)

#### Aspiration hazard

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

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

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| CAS No   | Chemical name            |               |           |         |   |        |
|----------|--------------------------|---------------|-----------|---------|---|--------|
|          | Aquatic toxicity         | Dose          | [h]   [d] | Species | Source                                  | Method |
| 100-42-5 | Styrene                  |               |           |         |   |        |
|          | Acute fish toxicity      | LC50<br>mg/l  | 4,02      | 96 h    |   | GESTIS |
|          | Acute algae toxicity     | ErC50         | 1,4 mg/l  | 72 h    |   | GESTIS |
|          | Acute crustacea toxicity | EC50          | 4,7 mg/l  | 48 h    |   | GESTIS |
|          | Crustacea toxicity       | NOEC<br>mg/l  | 1,01      | 21 d    |   | GESTIS |
| 121-69-7 | N,N-dimethylaniline      |               |           |         |   |        |
|          | Acute fish toxicity      | LC50<br>mg/l  | 65,6      | 96 h    | Pimephales promelas<br>(fathead minnow) |        |
|          | Acute algae toxicity     | ErC50         | 22 mg/l   | 72 h    | Chlorella pyrenoidosa                   |        |
|          | Acute crustacea toxicity | EC50          | 2,3 mg/l  | 48 h    | Daphnia magna (Big<br>water flea)       |        |
| 130-15-4 | 1,4-naphthoquinone       |               |           |         |   |        |
|          | Acute fish toxicity      | LC50<br>mg/l  | 0,045     | 96 h    | Oryzias latipes<br>(Ricefish)           |        |
|          | Acute algae toxicity     | ErC50<br>mg/l | 0,42      | 72 h    |   |        |
|          | Acute crustacea toxicity | EC50<br>mg/l  | 0,026     | 48 h    |   |        |
|          | Algae toxicity           | NOEC<br>mg/l  | 0,07      | 3 d     |   |        |

#### 12.2. Persistence and degradability

The product has not been tested.

| CAS No   | Chemical name      |       |   |        |
|----------|--------------------|-------|---|--------|
|          | Method             | Value | d | Source |
|          | Evaluation         |       |   |        |
| 130-15-4 | 1,4-naphthoquinone |       |   |        |
|          |                    | 39 %  | 5 |        |

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

| CAS No   | Chemical name      | Log Pow |
|----------|--------------------|---------|
| 100-42-5 | Styrene            | 3,05    |
| 130-15-4 | 1,4-naphthoquinone | 1,77    |

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.



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**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Subsequent waste code numbers of the European Waste Catalogue are considered as recommendations. Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**List of Wastes Code - residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - used product**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**SECTION 14: Transport information****Land transport (ADR/RID)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**Inland waterways transport (ADN)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**Marine transport (IMDG)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**Air transport (ICAO-TI/IATA-DGR)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

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#### **14.6. Special precautions for user**

No information available.

#### **14.7. Maritime transport in bulk according to IMO instruments**

not applicable

### **SECTION 15: Regulatory information**

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

##### **EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 40, Entry 75

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)  
(SEVESO III):

##### **Additional information**

VOC content: 11,0 % (DIN EN ISO 11890-2)

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

##### **National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

1 - slightly hazardous to water

#### **15.2. Chemical safety assessment**

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

### **SECTION 16: Other information**

#### **Abbreviations and acronyms**

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation

(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimates

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level

DNEL: Derived No Effect Level

EC50: Effective concentration, 50%

ErC50: EC50 in terms of reduction of growth rate

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods Code

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Marpol: International convention for the prevention of pollution from Ships (Marine Pollutant)

NOEC: No Observed Effect Concentration

PBT: persistent, bioaccumulative and toxic

vPvB: very persistent and very bioaccumulative

PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

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RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)

VOC: Volatile organic compound

Acute Tox. 2: Acute toxicity, Category 2

Acute Tox. 3: Acute toxicity, Category 3

Acute Tox. 4: Acute toxicity, Category 4

Aquatic Chronic 1: Long-term aquatic hazard, Category 1

Aquatic Chronic 2: Long-term aquatic hazard, Category 2

Aquatic Chronic 3: Long-term aquatic hazard, Category 3

Asp. Tox. 1: Aspiration hazard, Category 1

Carc. 2: Carcinogenicity, Category 2

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

Flam. Liq. 3: Flammable liquid, Category 3

Repr. 2: Reproductive toxicity, Category 2

Skin Corr. 1C: Skin corrosion/irritation, Category 1C

Skin Irrit. 2: Serious eye damage/eye irritation, Category 2

Skin Sens. 1A: Skin sensitization, Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure), Category 1

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

#### Key literature references and sources for data

Website European Chemicals Agency: <https://echa.europa.eu>

Data sources: Supplier

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification      | Classification procedure |
|---------------------|--------------------------|
| Skin Irrit. 2; H315 | Calculation method       |
| Eye Irrit. 2; H319  | Calculation method       |
| Repr. 2; H361d      | Calculation method       |
| STOT RE 1; H372     | Calculation method       |

#### Relevant H and EUH statements (number and full text)

|       |   |
|-------|---|
| H226  | Flammable liquid and vapour.                                    |
| H301  | Toxic if swallowed.   |
| H304  | May be fatal if swallowed and enters airways.                   |
| H311  | Toxic in contact with skin.                                     |
| H314  | Causes severe skin burns and eye damage.                        |
| H315  | Causes skin irritation.   |
| H317  | May cause an allergic skin reaction.                            |
| H318  | Causes serious eye damage.                                      |
| H319  | Causes serious eye irritation.                                  |
| H330  | Fatal if inhaled.   |
| H331  | Toxic if inhaled.   |
| H332  | Harmful if inhaled.   |
| H335  | May cause respiratory irritation.                               |
| H351  | Suspected of causing cancer.                                    |
| H361d | Suspected of damaging the unborn child.                         |
| H372  | Causes damage to organs through prolonged or repeated exposure. |
| H400  | Very toxic to aquatic life.                                     |
| 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.              |

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be

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transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*

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

##### 1.1. Product identifier

ResiFix Epoxyacrylate EY, Comp. B

UFI: MR10-90K6-A005-22ER

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

###### Use of the substance/mixture

compound mortar B-component (hardener)

###### Uses advised against

no restriction

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

Company name: CELO Befestigungssysteme GmbH

Street: Industriestr. 6

Place: D-86551 Aichach

Telephone: +49 (0) 8251 90485 0

Telefax: +49 (0) 8251 90485 49

e-mail: info@celofixings.com

**1.4. Emergency telephone number:** +49 (0) 89 19240 Giftnotruf München (24 h, German and English)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### GB CLP Regulation

Eye Irrit. 2; H319

Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

##### 2.2. Label elements

###### GB CLP Regulation

###### Hazard components for labelling

Dibenzoyl peroxide

**Signal word:** Warning

###### Pictograms:



###### Hazard statements

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

###### Precautionary statements

P261 Avoid breathing vapours.

P280 Wear protective gloves and eye/face protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to an approved waste disposal plant in accordance with local/national regulation.

##### 2.3. Other hazards

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The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. (--> UK REACH)

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

| CAS No  | Chemical name   |              |                  | Quantity   |
|---------|---|--------------|------------------|------------|
|         | EC No   | Index No     | REACH No         |            |
|         | Classification (GB CLP Regulation)  |              |                  |            |
| 94-36-0 | Dibenzoyl peroxide  |              |                  | 5 - < 15 % |
|         | 202-327-6   | 617-008-00-0 | 01-2119511472-50 |            |
|         | Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H241 H319 H317 H400 H410 |              |                  |            |

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

| CAS No  | EC No  | Chemical name      | Quantity   |
|---------|--|--------------------|------------|
|         | Specific Conc. Limits, M-factors and ATE   |                    |            |
| 94-36-0 | 202-327-6  | Dibenzoyl peroxide | 5 - < 15 % |
|         | oral: LD50 = > 5000 mg/kg Aquatic Acute 1; H400: M=10<br>Aquatic Chronic 1; H410: M=10 |                    |            |

#### Further Information

The product has been tested for aquatic toxicity. The tests show no need for classification of the product as toxic and harmful to aquatic life. Test reports are available.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection! Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

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

May cause an allergic skin reaction.

Causes serious eye irritation.

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

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Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Foam  
Extinguishing powder  
Water spray jet  
Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

Pyrolysis products, toxic  
Carbon monoxide

**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.  
Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.  
Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Use personal protective equipment as required. Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****For cleaning up**

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand  
Treat the recovered material as prescribed in the section on waste disposal.  
Retain contaminated washing water and dispose it.

**Other information**

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand  
Treat the recovered material as prescribed in the section on waste disposal.  
Retain contaminated washing water and dispose it.

**6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Use only outdoors or in a well-ventilated area.  
Wear personal protection equipment (refer to section 8).  
Avoid contact with skin, eyes and clothes.

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When using do not eat, drink or smoke.  
Wash hands thoroughly after handling.  
Take off contaminated clothing and wash it before reuse.

**Advice on general occupational hygiene**

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme.  
Wash hands thoroughly after handling. When using do not eat or drink.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep container tightly closed.  
Store in a place accessible by authorized persons only.  
Keep only in the original container in a cool, well-ventilated place.

**Hints on joint storage**

Do not store together with: Oxidising agent, strong  
Do not use for products which come into contact with the food stuffs.

**Further information on storage conditions**

Keep container tightly closed in a cool place.  
storage temperature: 5 - 25°C

**7.3. Specific end use(s)**

see section 1.2

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limits (EH40)**

| CAS No  | Substance          | ppm | mg/m <sup>3</sup> | fibres/ml | Category  | Origin |
|---------|--------------------|-----|-------------------|-----------|-----------|--------|
| 94-36-0 | Dibenzoyl peroxide | -   | 5                 |           | TWA (8 h) | WEL    |
| 56-81-5 | Glycerol, mist     | -   | 10                |           | TWA (8 h) | WEL    |

**DNEL/DMEL values**

| CAS No                   | Substance          | Exposure route | Effect   | Value                |
|--------------------------|--------------------|----------------|----------|----------------------|
| 94-36-0                  | Dibenzoyl peroxide |                |          |                      |
| Consumer DNEL, long-term |                    | oral           | systemic | 2 mg/kg bw/day       |
| Worker DNEL, long-term   |                    | dermal         | systemic | 13,3 mg/kg bw/day    |
| Worker DNEL, long-term   |                    | inhalation     | systemic | 39 mg/m <sup>3</sup> |

**PNEC values**

| CAS No                    | Substance          | Value         |
|---------------------------|--------------------|---------------|
| Environmental compartment |                    |               |
| 94-36-0                   | Dibenzoyl peroxide |               |
| Freshwater                |                    | 0,00002 mg/l  |
| Marine water              |                    | 0,000002 mg/l |
| Freshwater sediment       |                    | 0,013 mg/kg   |
| Marine sediment           |                    | 0,001 mg/kg   |

**Additional advice on limit values**

This mixture contains quartz (inorganic filler) which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded. Exposure limit values for respirable dusts are



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not relevant for this product.

**8.2. Exposure controls**



**Appropriate engineering controls**

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Wear eye/face protection. Wear safety glasses.

**Hand protection**

Disposable gloves  
Recommended material: NBR (Nitrile rubber)  
Breakthrough time: > 480 min  
Thickness of the glove material: > 0,2 mm  
DIN-/EN-Norms EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Respiratory protection with combination filter A1P2 (organic gases/vapors and particles) recommended.

**SECTION 9: Physical and chemical properties**

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

|   |  |                   |
|---|--|-------------------|
| Physical state:   | solid (pasty)  |                   |
| Colour:   | black  |                   |
| Odour:  | characteristic   |                   |
| Odour threshold:  | No data available  |                   |
| Melting point/freezing point:                             |  | No data available |
| Boiling point or initial boiling point and boiling range: |  | No data available |
| Flammability:   |  | Combustible       |
| Lower explosion limits:                                   |  | not applicable    |
| Upper explosion limits:                                   |  | not applicable    |
| Flash point:  |  | not applicable    |
| Auto-ignition temperature:                                |  | not applicable    |
| Decomposition temperature:                                | Start of decomposition: >35 °C   |                   |
| pH-Value:   | The study does not need to be conducted because the substance is known to be insoluble in water. |                   |
| Viscosity / kinematic:                                    |  | not applicable    |
| Water solubility:   | The study does not need to be conducted because the substance is known to be insoluble in water. |                   |

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Solubility in other solvents

No data available

Partition coefficient n-octanol/water:

not applicable

Vapour pressure:

No data available

Density (at 20 °C):

 1,59 g/cm<sup>3</sup>

Relative vapour density:

not applicable

Particle characteristics:

No data available

#### 9.2. Other information

##### Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Self-ignition temperature

Solid:

not applicable

Oxidizing properties

Not oxidising.

Available oxygen content: 0,74 %

##### Other safety characteristics

Evaporation rate:

No data available

Solid content:

No data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

see section 10.3

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Violent reaction with: Oxidising agent

#### 10.4. Conditions to avoid

see section 7.2

#### 10.5. Incompatible materials

Oxidising agent, strong

#### 10.6. Hazardous decomposition products

Benzoic acid

Benzene

Biphenyl

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in GB CLP Regulation

##### Acute toxicity

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

| CAS No  | Chemical name      |                   |         |        |        |
|---------|--------------------|-------------------|---------|--------|--------|
|         | Exposure route     | Dose              | Species | Source | Method |
| 94-36-0 | Dibenzoyl peroxide |                   |         |        |        |
|         | oral               | LD50 > 5000 mg/kg | Rat     |        |        |

##### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

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**Sensitising effects**

May cause an allergic skin reaction. (Dibenzoyl peroxide)

**Carcinogenic/mutagenic/toxic effects for reproduction**

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**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**SECTION 12: Ecological information**
**12.1. Toxicity**

The product is not: Ecotoxic.

OECD 201 (Desmodesmus subspicatus )

IC10: (0 - 72 h) = 30 mg/l

IC50: (0 - 72 h) = 150 mg/l

OECD 202 (Daphnia magna)

EC0/NOEC (48h) = 100 mg/l

EC50 (48h) = &gt;500 mg/l

EC100 (48h) = &gt;&gt;500 mg/l

OECD 203 (Danio rerio)

LC0/NOEC (96 h) : 250 mg/l

LC50 (96 h) : &gt; 500 mg/l

LC100 (96 h) : &gt;&gt; 500 mg/l

| CAS No  | Chemical name            |               |           |         |  |          |
|---------|--------------------------|---------------|-----------|---------|--|----------|
|         | Aquatic toxicity         | Dose          | [h]   [d] | Species | Source                                 | Method   |
| 94-36-0 | Dibenzoyl peroxide       |               |           |         |  |          |
|         | Acute fish toxicity      | LC50<br>mg/l  | 0,0602    | 96 h    | Oncorhynchus mykiss<br>(Rainbow trout) | OECD 203 |
|         | Acute algae toxicity     | ErC50<br>mg/l | 0,0711    | 72 h    | Pseudokirchneriella<br>subcapitata     | OECD 201 |
|         | Acute crustacea toxicity | EC50<br>mg/l  | 0,11      | 48 h    | Daphnia magna (Big<br>water flea)      | OECD 202 |
|         | Algae toxicity           | NOEC<br>mg/l  | 0,02      | 3 d     | Pseudokirchneriella<br>subcapitata     | OECD 201 |
|         | Crustacea toxicity       | NOEC<br>mg/l  | 0,001     | 21 d    | Daphnia magna (Big<br>water flea)      | OECD 211 |
|         | Acute bacteria toxicity  | (EC50         | 35 mg/l)  | 0,5 h   |  | OECD 209 |

**12.2. Persistence and degradability**

The product has not been tested.

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| CAS No  | Chemical name                                       |       |    |        |
|---------|---|-------|----|--------|
|         | Method  | Value | d  | Source |
|         | Evaluation  |       |    |        |
| 94-36-0 | Dibenzoyl peroxide                                  |       |    |        |
|         | OECD 301D   | 71%   | 28 |        |
|         | Readily biodegradable (according to OECD criteria). |       |    |        |

#### **12.3. Bioaccumulative potential**

The product has not been tested.

#### **Partition coefficient n-octanol/water**

| CAS No  | Chemical name      | Log Pow |
|---------|--------------------|---------|
| 94-36-0 | Dibenzoyl peroxide | 3,2     |

#### **12.4. Mobility in soil**

The product has not been tested.

#### **12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

#### **12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### **12.7. Other adverse effects**

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Disposal recommendations**

Subsequent waste code numbers of the European Waste Catalogue are considered as recommendations.

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

##### **List of Wastes Code - residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

##### **List of Wastes Code - used product**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

##### **List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

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**SECTION 14: Transport information****Land transport (ADR/RID)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**Inland waterways transport (ADN)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**Marine transport (IMDG)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**Air transport (ICAO-TI/IATA-DGR)**

|  |  |
|--|--|
| <b>14.1. UN number or ID number:</b>     | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No information available.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)  
(SEVESO III):**Additional information**

VOC content: 4,3 % (DIN EN ISO 11890-2)

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

1 - slightly hazardous to water

Skin resorption/Sensitization:

Causes allergic hypersensitivity reactions.

**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**

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation  
(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)  
ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
CAS: Chemical Abstracts Service  
CLP: Classification, Labeling and Packaging  
DMEL: Derived Minimal Effect level  
DNEL: Derived No Effect Level  
EC50: Effective concentration, 50%  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)  
ICAO: International Civil Aviation Organization  
IC50: Inhibitory concentration, 50%  
IMDG: International Maritime Code for Dangerous Goods  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
NOEC: No Observed Effect Concentration  
OECD: Organisation for Economic Co-operation and Development  
PBT: persistent, bioaccumulative and toxic  
vPvB: very persistent and very bioaccumulative  
PNEC: Predicted No Effect Concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)  
VOC: Volatile organic compound  
Aquatic Acute 1: Acute aquatic hazard, Category 1  
Aquatic Chronic 1: Long-term aquatic hazard, Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation, Category 2  
Skin Sens. 1: Skin sensitization, Category 1  
Org. Perox. B: Organic Peroxides, Type B

**Key literature references and sources for data**

Website European Chemicals Agency: <https://echa.europa.eu>  
Data sources: Supplier

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

| Classification     | Classification procedure |
|--------------------|--------------------------|
| Eye Irrit. 2; H319 | Calculation method       |
| Skin Sens. 1; H317 | Calculation method       |

**Relevant H and EUH statements (number and full text)**

H241 Heating may cause a fire or explosion.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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