

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2020/878

2RWE-20S-1-02  
Version 4.0

RWE-GB-20-S (dif. colors)  
Revision date 14 Mar 2026

Print date 8 Apr 2026

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

### 1.1 Product identifier

#### Trade name/designation

2RWE-20S-1-02 RWE-GB-20-S (dif. colors)  
CHING-EP-HIGH-SOLID-PRIMER  
COMPONENT I 120 µm

UFI: 33ND-R3SJ-500F-MFRP

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

#### Relevant identified uses

Corrosion Protection and Industrial Coatings.

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

#### Supplier

CHEMISCHE INDUSTRIE ERLANGEN GMBH  
Rathenastr. 18 Telephone: +49 9131 3006-0  
91052 Erlangen E-mail: info@ching-coatings.com  
Germany Website: <https://www.ching-coatings.com>

#### Department responsible for information

E-mail (competent person) msds@ching-coatings.com

### 1.4 Emergency telephone number

Emergency telephone number: +49 9131 3006 91  
Only available during office hours.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

|                   |   |
|-------------------|---|
| Flam. Liq. 3      | H226 Flammable liquid and vapour.                     |
| Skin Irrit. 2     | H315 Causes skin irritation.                          |
| Skin Sens. 1      | H317 May cause an allergic skin reaction.             |
| Eye Irrit. 2      | H319 Causes serious eye irritation.                   |
| Aquatic Chronic 2 | H411 Toxic to aquatic life with long lasting effects. |

### 2.2 Label elements

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

#### Hazard pictograms



GHS02 GHS07 GHS09

#### Signal word

Warning

#### Hazard statements

|      |  |
|------|--|
| H226 | Flammable liquid and vapour.                     |
| H315 | Causes skin irritation.                          |
| H317 | May cause an allergic skin reaction.             |
| H319 | Causes serious eye irritation.                   |
| H411 | Toxic to aquatic life with long lasting effects. |

#### Precautionary statements

|             |  |
|-------------|--|
| P210        | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P273        | Avoid release to the environment.  |
| P280        | Wear protective gloves and eye protection/face protection.                                     |
| P370 + P378 | In case of fire: Use extinguishing powder or sand to extinguish.                               |
| P391        | Collect spillage.  |
| P403 + P235 | Store in a well-ventilated place. Keep cool.   |

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**Hazard components for labelling**

Cashew, nutshell liq., oligomeric reaction products with 1-chloro-2,3-epoxypropane  
reaction product: bisphenol-A-(epichlorhydrin)

**Supplemental hazard information**

not applicable

**2.3 Other hazards**

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

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**

**Description**

Coating based on epoxy resin, component I

**Hazardous ingredients**

| CAS No.<br>EC No.<br>Index No.               | Substance name<br>REACH No.<br>Classification according to Regulation (EC) No 1272/2008 [CLP]   | % [mass]    |
|--|---|-------------|
| *<br>25068-38-6<br>500-033-5<br>603-074-00-8 | <b>reaction product: bisphenol-A-(epichlorhydrin)</b><br>Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Eye Irrit. 2 H319<br>Specific concentration limit (SCL)<br>Eye Irrit. 2 H319: >= 5,00 / Skin Irrit. 2 H315: >= 5,00<br>ATE (dermal): = 23,000 mg/kg<br>ATE (oral): = 15,000 mg/kg   | 20,0 < 25,0 |
| 7779-90-0<br>231-944-3<br>030-011-00-6       | <b>trizinc bis(orthophosphate)</b><br>01-2119485044-40<br>Aquatic Acute 1 H400 / Aquatic Chronic 1 H410<br>ATE (oral): > 5,000 mg/kg<br>ATE (inhalative): > 5.7 mg/L (4 h)  | 10,0 < 12,5 |
| 123-86-4<br>204-658-1<br>607-025-00-1        | <b>n-butyl acetate</b><br>01-2119485493-29<br>Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066<br>ATE (dermal): > 2,000 mg/kg<br>ATE (dermal): = 14,112 mg/kg<br>ATE (oral): > 10,760 mg/kg<br>ATE (inhalative): > 21 mg/L (4 h)   | 7,00 < 8,00 |
| 1314-13-2<br>215-222-5<br>030-013-00-7       | <b>zinc oxide</b><br>01-2119463881-32<br>Aquatic Acute 1 H400 (M = 1,00 ) / Aquatic Chronic 1 H410 (M = 1,00 )<br>ATE (oral): = 7,950 mg/kg<br>ATE (oral): > 15,000 mg/kg<br>ATE (inhalative): > 5.7 mg/L (4 h)   | 5,00 < 7,00 |
| -<br>905-562-9<br>-                          | <b>Reaction mass of ethylbenzene and m-xylene and p-xylene</b><br>01-2119555267-33<br>Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / Acute Tox. 4 H312 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 /<br>Acute Tox. 4 H332 / STOT SE 3 H335 / STOT RE 2 H373  | 3,00 < 5,00 |
| 78-83-1<br>201-148-0<br>603-108-00-1         | <b>2-methylpropan-1-ol</b><br>01-2119484609-23<br>Flam. Liq. 3 H226 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / STOT SE 3 H335 / STOT SE 3 H336<br>ATE (dermal): > 2,000 mg/kg<br>ATE (oral): > 2,000 mg/kg<br>ATE (inhalative): > 6.5 mg/L (4 h)  | 2,00 < 2,50 |
| 1330-20-7<br>215-535-7<br>601-022-00-9       | <b>o-xylene</b><br>01-2119488216-32<br>Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / Acute Tox. 4 H312 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 /<br>Acute Tox. 4 H332 / STOT SE 3 H335 / STOT RE 2 H373 / Aquatic Chronic 3 H412<br>ATE (dermal): = 12,126 mg/kg<br>ATE (oral): = 3,523 mg/kg<br>ATE (dermal): = 1,100 mg/kg<br>ATE (inhalative): = 27,571 mg/L (4 h) | 2,00 < 2,50 |
| 68413-24-1                                   | <b>Cashew, nutshell liq., oligomeric reaction products with 1-chloro-2,3-epoxypropane</b>   | 2,00 < 2,50 |

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500-210-7

01-2119982994-15

-

Skin Sens. 1 H317

**Remark**

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice. If unconscious but breathing normally, place in recovery position and seek medical advice.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners. Wash contaminated clothing before reuse.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

#### Self-protection of the first aider

First aider: Pay attention to self-protection!

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

#### Symptoms

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), Powder, spray mist, (water)

#### Unsuitable extinguishing media

Strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

#### Hazardous combustion products

Hazardous combustion products: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, smoke, Nitrogen oxides (NO<sub>x</sub>).

### 5.3 Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

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

Remove all sources of ignition. Ventilate affected area. Do not breathe vapours.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

#### For containment

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

**For cleaning up**

Clean using cleansing agents. Do not use solvents.

**6.4 Reference to other sections**

Safe handling: see section 7

Personal protection equipment: refer to section 8

Disposal: see section 13

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Advices on safe handling**

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities.

Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Use only spark proof tools.

Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. Personal protection equipment: see section 8.

Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

**Additional information**

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

**Advices on general occupational hygiene**

When using do not eat, drink or smoke.

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

**Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Access only for authorised persons. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Storage class** LGK3 - Flammable liquids

**Further information on storage conditions**

Take care of instructions on label. Protect from heat and direct sunlight. Smoking is forbidden. Remove all sources of ignition. Keep container tightly closed. Store carefully closed containers upright to prevent any leaks.

**7.3 Specific end use(s)**

Observe technical data sheet.

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

**8.1 Control parameters**

**Occupational exposure limit values**

| CAS No.    | Substance name  | Source | Long-term /short-term (peak limitation)                               |
|------------|---|--------|---|
| 78-83-1    | 2-methylpropan-1-ol   | WEL    | 154 / 231 (-) mg/m <sup>3</sup>                                       |
| 14807-96-6 | Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )                                 | WEL    | 1 / - (-) mg/m <sup>3</sup><br>(respirable fraction)                  |
| 1330-20-7  | o-xylene  | WEL    | 220 / 441 (-) mg/m <sup>3</sup><br>(may be absorbed through the skin) |
| 13463-67-7 | titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | WEL    | 4 / - (-) mg/m <sup>3</sup><br>(respirable fraction)                  |
| 13463-67-7 | titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | WEL    | 10 / - (-) mg/m <sup>3</sup><br>(inhalable fraction)                  |

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**Additional information**

Long-term: Long-term occupational exposure limit value  
 short-term: short-term occupational exposure limit value

**Biological limit values**

| CAS No.   | Substance name | Source | Value/<br>Test material   |
|-----------|----------------|--------|---|
| 1330-20-7 | o-xylene       | BMGV   | 650 mmol/mol creatinine / urine end of exposure or end of shift |

**DNEL worker**

| CAS No.    | Substance name                                 | DNEL type                                | DNEL value              |
|------------|--|--|-------------------------|
| 78-83-1    | 2-methylpropan-1-ol                            | DNEL long-term inhalative (local)        | 310 mg/m <sup>3</sup>   |
| 78-83-1    | 2-methylpropan-1-ol                            | DNEL long-term inhalative (systemic)     | 310 mg/m <sup>3</sup>   |
| 123-86-4   | n-butyl acetate                                | DNEL acute inhalative (local)            | 960 mg/m <sup>3</sup>   |
| 123-86-4   | n-butyl acetate                                | DNEL long-term dermal (systemic)         | 7 mg/kg                 |
| 123-86-4   | n-butyl acetate                                | DNEL long-term inhalative (local)        | 300 mg/m <sup>3</sup>   |
| 123-86-4   | n-butyl acetate                                | DNEL long-term inhalative (systemic)     | 48 mg/m <sup>3</sup>    |
| 123-86-4   | n-butyl acetate                                | DNEL acute inhalative (systemic)         | 960 mg/m <sup>3</sup>   |
| 1330-20-7  | o-xylene                                       | DNEL acute dermal, short-term (local)    | 289 mg/kg               |
| 1330-20-7  | o-xylene                                       | DNEL acute dermal, short-term (systemic) | 289 mg/kg               |
| 1330-20-7  | o-xylene                                       | DNEL long-term dermal (systemic)         | 180 mg/kg               |
| 1330-20-7  | o-xylene                                       | DNEL long-term inhalative (systemic)     | 77 mg/m <sup>3</sup>    |
| 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) | DNEL acute dermal, short-term (systemic) | 8.33 mg/kg              |
| 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) | DNEL long-term inhalative (systemic)     | 12.25 mg/m <sup>3</sup> |
| 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) | DNEL acute inhalative (systemic)         | 12.25 mg/m <sup>3</sup> |
| 7779-90-0  | trizinc bis(orthophosphate)                    | DNEL long-term dermal (systemic)         | 83 mg/kg                |
| 7779-90-0  | trizinc bis(orthophosphate)                    | DNEL long-term inhalative (systemic)     | 5 mg/m <sup>3</sup>     |
| 1314-13-2  | zinc oxide                                     | DNEL long-term dermal (systemic)         | 83 mg/kg                |
| 1314-13-2  | zinc oxide                                     | DNEL long-term inhalative (systemic)     | 5 mg/m <sup>3</sup>     |

**PNEC**

| CAS No.   | Substance name      | PNEC type                          | PNEC Value   |
|-----------|---------------------|------------------------------------|--------------|
| 78-83-1   | 2-methylpropan-1-ol | PNEC aquatic, intermittent release | 11 mg/L      |
| 78-83-1   | 2-methylpropan-1-ol | PNEC sewage treatment plant (STP)  | 10 mg/L      |
| 78-83-1   | 2-methylpropan-1-ol | PNEC sediment, marine water        | 0.152 mg/kg  |
| * 78-83-1 | 2-methylpropan-1-ol | PNEC soil, freshwater              | 0.0699 mg/kg |
| 78-83-1   | 2-methylpropan-1-ol | PNEC sediment, freshwater          | 1.52 mg/kg   |
| 78-83-1   | 2-methylpropan-1-ol | PNEC aquatic, freshwater           | 0.4 mg/L     |
| 78-83-1   | 2-methylpropan-1-ol | PNEC aquatic, marine water         | 0.04 mg/L    |
| 123-86-4  | n-butyl acetate     | PNEC aquatic, intermittent release | 0.36 mg/L    |

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|   |            |  |                                    |              |
|---|------------|--|------------------------------------|--------------|
|   | 123-86-4   | n-butyl acetate                                | PNEC sewage treatment plant (STP)  | 35.6 mg/L    |
| * | 123-86-4   | n-butyl acetate                                | PNEC sediment, marine water        | 0.0981 mg/kg |
|   | 123-86-4   | n-butyl acetate                                | PNEC soil, freshwater              | 0.09 mg/kg   |
|   | 123-86-4   | n-butyl acetate                                | PNEC sediment, freshwater          | 0.981 mg/kg  |
|   | 123-86-4   | n-butyl acetate                                | PNEC aquatic, freshwater           | 0.18 mg/L    |
|   | 123-86-4   | n-butyl acetate                                | PNEC aquatic, marine water         | 0.018 mg/L   |
|   | 1330-20-7  | o-xylene                                       | PNEC aquatic, intermittent release | 0.327 mg/L   |
|   | 1330-20-7  | o-xylene                                       | PNEC sewage treatment plant (STP)  | 6.58 mg/L    |
|   | 1330-20-7  | o-xylene                                       | PNEC sediment, marine water        | 12.46 mg/kg  |
|   | 1330-20-7  | o-xylene                                       | PNEC sediment, freshwater          | 12.46 mg/kg  |
|   | 1330-20-7  | o-xylene                                       | PNEC aquatic, freshwater           | 0.327 mg/L   |
|   | 1330-20-7  | o-xylene                                       | PNEC aquatic, marine water         | 0.327 mg/L   |
|   | 1330-20-7  | o-xylene                                       | PNEC soil, freshwater              | 2.31 mg/kg   |
|   | 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) | PNEC aquatic, intermittent release | 0.018 mg/L   |
|   | 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) | PNEC sewage treatment plant (STP)  | 10 mg/L      |
| * | 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) | PNEC sediment, marine water        | 0.0996 mg/kg |
|   | 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) | PNEC sediment, freshwater          | 0.996 mg/kg  |
|   | 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) | PNEC soil, freshwater              | 0.196 mg/kg  |
|   | 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) | PNEC aquatic, freshwater           | 0.006 mg/L   |
| * | 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin) | PNEC aquatic, marine water         | 0.0006 mg/L  |
|   | 7779-90-0  | trizinc bis(orthophosphate)                    | PNEC sewage treatment plant (STP)  | 100 mg/L     |
|   | 7779-90-0  | trizinc bis(orthophosphate)                    | PNEC sediment, marine water        | 56.5 mg/kg   |
|   | 7779-90-0  | trizinc bis(orthophosphate)                    | PNEC sediment, freshwater          | 117.8 mg/kg  |
|   | 7779-90-0  | trizinc bis(orthophosphate)                    | PNEC aquatic, freshwater           | 20.6 mg/L    |
|   | 7779-90-0  | trizinc bis(orthophosphate)                    | PNEC aquatic, marine water         | 6.1 mg/L     |
|   | 7779-90-0  | trizinc bis(orthophosphate)                    | PNEC soil, freshwater              | 35.6 mg/kg   |

## 8.2 Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

### Personal protection equipment

#### Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

#### Hand protection

For prolonged or repeated handling the following glove material must be used:

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material  $\geq 0.4$  mm

Breakthrough time  $\geq 480$  min

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. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin.

Recommended glove articles: EN ISO 374

#### Skin protection

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### Eye/face protection

Eye glasses with side protection: EN 166

#### Body protection

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Anti-static clothing including shoes are recommended.

**Remark**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

**Environmental exposure controls**

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |                              |
|---|------------------------------|
| Physical state                          | Liquid                       |
| Colour                                  | yellow                       |
| Odour                                   | characteristic               |
| pH at 20 °C                             | not determined               |
| Melting point/freezing point            | -76 °C                       |
|   | Source: n-butyl acetate      |
| Initial boiling point and boiling range | 108 °C                       |
| Flash point                             | 32 °C                        |
| flammability                            | Flammable liquid and vapour. |
| Lower explosion limit at 20°C           | 1 Vol-%                      |
|   | Source: o-xylene             |
| Upper explosion limit at 20°C           | 10.9 Vol-%                   |
|   | Source: 2-methylpropan-1-ol  |
| Vapour pressure at 20°C                 | 1.4 mbar                     |
| Relative vapour density                 | not applicable               |
| Density at 20 °C                        | 1.8 kg/l                     |
| Water solubility at 20°C                | practically insoluble        |
| Partition coefficient: n-octanol/water  | see section 12               |
| Auto-ignition temperature               | 390 °C                       |
|   | Source: n-butyl acetate      |
| Decomposition temperature               | not determined               |
| Kinematic viscosity at 20 °C            | < 700 mm <sup>2</sup> /s     |
| Dynamic viscosity at 20 °C              | < 1,254.61 mPas              |
| Viscosity                               | > 30s / 8mm                  |
| particle characteristics                | not applicable               |

### 9.2 Other information

|                 |        |
|-----------------|--------|
| Solid content   | 83.3 % |
| solvent content | 16.7 % |
| Water content   | 0 %    |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### 10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4 Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

#### 10.5 Incompatible materials

No further relevant information available.

#### 10.6 Hazardous decomposition products

Decomposition products in case of fire: see section 5.

### 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.

##### 2-methylpropan-1-ol

LD50: dermal (Rat): > 2,000 mg/kg

LD50: oral (Rat): > 2,000 mg/kg; (OECD 401)

LC50: inhalative (Rat): > 6.5 mg/L (4 h)

##### n-butyl acetate

LD50: dermal (Rabbit): > 2,000 mg/kg

LD50: dermal (Rat): = 14,112 mg/kg; (OECD 402)

LD50: oral (Rat): > 10,760 mg/kg; (OECD 423)

LC50: inhalative (Rat): > 21 mg/L (4 h); (OECD 403)

##### o-xylene

LD50: dermal (Rabbit): = 12,126 mg/kg

LD50: oral (Rat): = 3,523 mg/kg; (OECD 423)

LD50: dermal (Rat): = 1,100 mg/kg

LC50: inhalative (Rat): = 27,571 mg/L (4 h)

##### reaction product: bisphenol-A-(epichlorhydrin)

LD50: dermal (Rabbit): = 23,000 mg/kg

LD50: oral (Rat): = 15,000 mg/kg

##### trizinc bis(orthophosphate)

LD50: oral (Rat): > 5,000 mg/kg

LC50: inhalative (Rat): > 5.7 mg/L (4 h)

##### zinc oxide

LD50: oral (Mouse): = 7,950 mg/kg

LD50: oral (Rat): > 15,000 mg/kg

LC50: inhalative (Rat): > 5.7 mg/L (4 h)

##### Skin corrosion/irritation

Causes skin irritation.

##### Serious eye damage/eye irritation

Causes serious eye irritation.

##### Respiratory or skin sensitisation

May cause an allergic skin reaction.

##### Overall assessment on CMR properties

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.

##### Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

## 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

Toxic to aquatic life with long lasting effects.

#### **n-butyl acetate**

EC10: (*Pseudomonas putida*): = 956 mg/L (18 h)

#### **o-xylene**

EC50 < 1,000 mg/L (15 h)

#### **Algae toxicity**

##### **2-methylpropan-1-ol**

ErC50: (*Scenedesmus subspicatus*): = 1,250 mg/L (48 h)

##### **n-butyl acetate**

ErC50: (*Scenedesmus quadricauda*): = 675 mg/L (72 h)

##### **o-xylene**

ErC50: (*Scenedesmus subspicatus*): < 100 mg/L (72 h)

Method: OECD 201

##### **reaction product: bisphenol-A-(epichlorhydrin)**

ErC50: = 11 mg/L (72 h)

##### **trizinc bis(orthophosphate)**

ErC50: > 100 mg/L

##### **zinc oxide**

ErC50: (*Scenedesmus subspicatus*): = 58.8 mg/L (72 h)

#### **Daphnia toxicity**

##### **2-methylpropan-1-ol**

EC50 (*Daphnia magna* (Big water flea)): = 1,439 mg/L (48 h)

##### **n-butyl acetate**

EC50 (*Daphnia magna* (Big water flea)): = 44 mg/L (48 h)

##### **o-xylene**

EC50 (*Daphnia magna* (Big water flea)): > 100 mg/L (48 h)

Method: OECD 202

EC50 (*Daphnia magna* (Big water flea)): < 165 mg/L (48 h)

##### **reaction product: bisphenol-A-(epichlorhydrin)**

EC50 = 1.8 mg/L (48 h)

##### **trizinc bis(orthophosphate)**

EC50 (*Daphnia magna* (Big water flea)): > 1,000 mg/L (48 h)

##### **zinc oxide**

EC50 (*Daphnia magna* (Big water flea)): > 100 mg/L (48 h)

#### **Fish toxicity**

##### **2-methylpropan-1-ol**

LC50: (*Leuciscus idus* (golden orfe)): > 500 mg/L (96 h)

Method: OECD 203

##### **n-butyl acetate**

LC50: (*Danio rerio* (zebrafish)): > 64 mg/L (96 h)

##### **o-xylene**

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LC50: (Oncorhynchus mykiss (Rainbow trout)): < 100 mg/L (96 h)  
Method: OECD 203

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 14 mg/L (96 h)

**reaction product: bisphenol-A-(epichlorhydrin)**

LC50: (Leuciscus idus (golden orfe)): = 2 mg/L (96 h)

**trizinc bis(orthophosphate)**

LC50: (Oncorhynchus mykiss (Rainbow trout)): > 1,000 mg/L (96 h)

LC50: > 5,000 mg/L (96 h)

**zinc oxide**

LC50: (Danio rerio (zebrafish)): > 10,000 mg/L (96 h)

#### 12.2 Persistence and degradability

No information available.

#### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

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

#### 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.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product/Packaging disposal

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

##### Waste codes/waste designations according to EWC/AVV

080111\* - Waste paint and varnish containing organic solvents or other dangerous substances

\* Hazardous waste according to Directive 2008/98/EC (waste framework directive).

##### Other disposal recommendations

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

UN 1263

#### 14.2 UN proper shipping name

##### Land transport (ADR/RID)

Paint

##### Sea transport (IMDG)

Paint

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

Paint

#### 14.3 Transport hazard class(es)

Land transport (ADR/RID) 3

Sea transport (IMDG) 3

Air transport (ICAO-TI / IATA-DGR) 3

#### 14.4 Packing group

Land transport (ADR/RID) III

Sea transport (IMDG) III

**Safety Data Sheet**  
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Air transport (ICAO-TI / IATA-DGR) III

**14.5 Environmental hazards**

Land transport (ADR/RID) ENVIRONMENTALLY HAZARDOUS  
Sea transport (IMDG) Marine pollutant

**14.6 Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

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

No transport as bulk according to IBC Code.

**14.8 Additional information**

**Land transport (ADR/RID)**

Tunnel restriction code: D/E

Limited quantity (LQ): 5 ltr

Hazard identification number (Kemler No.): 30

**Sea transport (IMDG)**

EmS-No.: F-E, S-E

Limited quantity (LQ): 5 ltr

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

Limited quantity (LQ): 10 Liter

**SECTION 15: Regulatory information**

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

**EU legislation**

**Authorisations and/or restrictions on use**

**Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)**

Use restriction according to REACH annex XVII, no.: 03, 40

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**

VOC value: 300 g/l

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

VOC limit value: 2004/42/IIA(j): 500 g/l (2010)

Maximum VOC content of the product in a ready to use condition: 306 g/L

This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content.

\* **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**

**Hazard categories / Named dangerous substances**

E2 Hazardous to the aquatic environment in Category Chronic 2

Quantity 1: 200t; Quantity 2: 500t

P5c FLAMMABLE LIQUIDS

Quantity 1: 5,000t; Quantity 2: 50,000t

**National regulations**

Observe in addition any national regulations!

**Water hazard class**

**Substance/product listed in the following inventories**

Toxic Substances Control Act - US

**15.2 Chemical Safety Assessment**

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

**SECTION 16: Other information**

**List of relevant hazard statements and/or precautionary statements from sections 2 to 15**

|        |  |
|--------|--|
| H226   | Flammable liquid and vapour.   |
| 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.   |
| H373   | May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard). |
| H400   | Very toxic to aquatic life.  |
| H410   | Very toxic to aquatic life with long lasting effects.  |
| H412   | Harmful to aquatic life with long lasting effects.   |
| EUH066 | Repeated exposure may cause skin dryness or cracking.  |

**Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

|                   |                        |
|-------------------|------------------------|
| Flam. Liq. 3      | On basis of test data. |
| Skin Irrit. 2     | Calculation method.    |
| Skin Sens. 1      | Calculation method.    |
| Eye Irrit. 2      | Calculation method.    |
| Aquatic Chronic 2 | Calculation method.    |

**Key literature references and sources for data**

Data arise from reference works and literature.

**Abbreviations and acronyms**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL: Occupational Exposure Limit Value

BLV: Biological limit values

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging

CMR: Carcinogenic, Mutagenic and Reprotoxic

DIN: German Institute for Standardization / German industrial standard

DNEL: Derived No-Effect Level

EAKV: European Waste Catalogue Directive

EC: Effective Concentration

EC: European Community

EN: European Standard

EU/EEA: European Economic Area

IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

ICAO-TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG Code: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

LC: Lethal Concentration

LD: Lethal Dose

:

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

OECD: Organisation for Economic Cooperation and Development

PBT: persistent, bioaccumulative, toxic

PNEC: Predicted No Effect Concentration

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

UN: United Nations

VOC: Volatile Organic Compounds

vPvB: very persistent and very bioaccumulative

**Indication of changes**

\* Data changed compared with the previous version.

replaces version: 3.0

replaces revision of: 2 Dec 2025