according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

# Carsystem MULTI extralang

| Version |         | Revision Date: | Date of last issue: 09.11.2023  |
|---------|---------|----------------|---------------------------------|
| 3.1     | DE / EN | 16.07.2024     | Date of first issue: 14.06.2022 |

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

| 1.1 | Product identifier                                   |      |   |  |
|-----|--|------|---|--|
|     | Trade name   | :    | Carsystem MULTI extralang                                   |  |
|     | Product code   | :    | 145.419   |  |
|     | This substance/ mixture conta                        | ins  | nanoforms   |  |
| 1.2 | Relevant identified uses of th                       | ne s | ubstance or mixture and uses advised against                |  |
|     | Use of the Sub-<br>stance/Mixture                    | :    | Body filler/stopper   |  |
|     | Recommended restrictions on use                      | :    | Industrial use, professional use                            |  |
| 1.3 | 1.3 Details of the supplier of the safety data sheet |      |   |  |
|     | Company  | :    | JASA AG<br>Müslistrasse 43<br>8957 Spreitenbach<br>Schweiz  |  |
|     |  |      | info@jasa-ag.ch, www.jasa-ag.ch                             |  |
|     | Telephone<br>Telefax                                 |      | +41 (0)44 431 60 70<br>+41 (0)44 432 63 17                  |  |
|     | Responsible Department                               | : F  | Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch |  |

#### 1.4 Emergency telephone

Telephone

: Tox Info Suisse (STIZ), Tel: 145

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## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

| Classification (REGULATION (EC) No 1272/2008)                  |  |  |  |  |  |
|--|--|--|--|--|--|
| Flammable liquids, Category 3                                  | H226: Flammable liquid and vapor.  |  |  |  |  |
| Skin irritation, Category 2                                    | H315: Causes skin irritation.  |  |  |  |  |
| Eye irritation, Category 2                                     | H319: Causes serious eye irritation.                                       |  |  |  |  |
| Skin sensitization, Category 1                                 | H317: May cause an allergic skin reaction.                                 |  |  |  |  |
| Reproductive toxicity, Category 2                              | H361d: Suspected of damaging the unborn child.                             |  |  |  |  |
| Specific target organ toxicity - repeated exposure, Category 1 | H372: Causes damage to organs through pro-<br>longed or repeated exposure. |  |  |  |  |

#### 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

1

Hazard pictograms



| Signal Word              | : | Danger  |   |
|--------------------------|---|---|---|
| Hazard Statements        | : | H226<br>H315<br>H317<br>H319<br>H361d<br>H372 | Flammable liquid and vapor.<br>Causes skin irritation.<br>May cause an allergic skin reaction.<br>Causes serious eye irritation.<br>Suspected of damaging the unborn child.<br>Causes damage to organs through prolonged or<br>repeated exposure. |
| Precautionary Statements | : | Prevention                                    | 1:  |
|                          |   | P201  | Obtain special instructions before use.   |
|                          |   | P210  | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  |
|                          |   | P260  | Do not breathe dust / mist / vapours.   |
|                          |   | P280  | Wear protective gloves/ protective clothing/ eye protection/ face protection.   |
|                          |   | Response                                      | :   |
|                          |   |   | 51 + P338 IF IN EYES: Rinse cautiously with wa-<br>ter for several minutes. Remove contact lenses, if<br>present and easy to do. Continue rinsing.  |
|                          |   | 0000 000                                      | 12 IF expected or expected: Cet medical eduice/   |

P308 + P313 IF exposed or concerned: Get medical advice/

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|                |         | ;                            | attention.   |
|                |         | Storage:                     |  |
|                |         |                              | Store locked up.   |
|                |         | Disposal:                    |  |
|                |         |                              | Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations. |

#### Hazardous ingredients which must be listed on the label:

styrene maleic anhydride

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

| Chemical nature | : | Mixture  |
|-----------------|---|----------|
|                 |   | contains |
|                 |   | Resin    |

#### Components

| Chemical name | CAS-No.             | Classification       | Concentration |
|---------------|---------------------|----------------------|---------------|
|               | EC-No.              |                      | (% w/w)       |
|               | Index-No.           |                      |               |
|               | Registration number |                      |               |
| styrene       | 100-42-5            | Flam. Liq. 3; H226   | >= 10 - < 20  |
|               | 202-851-5           | Acute Tox. 4; H332   |               |
|               | 601-026-00-0        | Skin Irrit. 2; H315  |               |
|               | 01-2119457861-32    | Eye Irrit. 2; H319   |               |
|               |                     | Repr. 2; H361d       |               |
|               |                     | STOT SE 3; H335      |               |
|               |                     | (Respiratory system) |               |
|               |                     | STOT RE 1; H372      |               |
|               |                     | (hearing organs)     |               |
|               |                     | Asp. Tox. 1; H304    |               |
|               |                     | Aquatic Chronic 3;   |               |
|               |                     | H412                 |               |

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|----------------|------------------------|--|---|---------------------|
| maleid         | c anhydride            | 108-31-6<br>203-571-6<br>607-096-00-9<br>01-2119472428 | Acute toxicity esti-<br>mate<br>Acute inhalation tox-<br>icity (vapor): 11,8<br>mg/l<br>Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Resp. Sens. 1; H334<br>Skin Sens. 1A; H317<br>STOT RE 1; H372<br>(Respiratory system)<br>EUH071<br>specific concentration<br>limit<br>Skin Sens. 1A; H317<br>>= 0,001 %<br>Acute toxicity esti-<br>mate<br>Acute oral toxicity:<br>1.090 mg/kg | >= 0,001 - <<br>0,1 |
| Substa<br>Talc | ances with a workplace | e exposure limit :<br>14807-96-6<br>238-877-9          |   | >= 30 - < 50        |
|                |                        |  |   |                     |

For explanation of abbreviations see section 16.

This substance/ mixture contains nanoforms

#### **Components:**

## iron hydroxide oxide yellow:

Particle characteristics

| Particle Size Distribution | : | D10 = 40 $\mu$ m ± 10 $\mu$ m<br>D50 = 75 $\mu$ m ± 25 $\mu$ m<br>D90 = 160 $\mu$ m ± 40 $\mu$ m<br>Type of distribution: number distribution |
|----------------------------|---|---|
| Assessment                 | : | This substance/ mixture contains nanoforms based on: Measurement data   |
| Shape                      | : | Shape: rods<br>Aspect Ratio (:1): 4 - 6   |

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| Surface treatment /Coatings |         | : Surface treatme | ent /Coatings: no               |

## **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

| General advice                    | :   | In the case of accident or if you feel unwell, seek medical ad-<br>vice immediately.<br>Move out of dangerous area.<br>Take off contaminated clothing and shoes immediately.<br>Do not leave the victim unattended.<br>Symptoms of poisoning may appear several hours later.<br>Show this material safety data sheet to the doctor in attend-<br>ance. |
|-----------------------------------|-----|--|
| Protection of first-aiders        | :   | First Aid responders should pay attention to self-protection and use the recommended protective clothing   |
| If inhaled                        | :   | Move to fresh air.<br>Keep patient warm and at rest.<br>If breathing is irregular or stopped, administer artificial respira-<br>tion.<br>Call a physician immediately.   |
| In case of skin contact           | :   | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician if irritation develops or persists.   |
| In case of eye contact            | :   | Rinse immediately with plenty of water, also under the eyelids,<br>for at least 15 minutes.<br>Keep eye wide open while rinsing.<br>If easy to do, remove contact lens, if worn.<br>Consult a physician.   |
| If swallowed                      | :   | Rinse mouth with water.<br>Do NOT induce vomiting.<br>Call a physician immediately.  |
| 4.2 Most important symptoms and   | d e | ffects, both acute and delayed   |
| Risks                             | :   | Causes skin irritation.<br>May cause an allergic skin reaction.<br>Causes serious eye irritation.<br>Suspected of damaging the unborn child.<br>Causes damage to organs through prolonged or repeated<br>exposure.   |
| 4.3 Indication of any immediate m | ned | ical attention and special treatment needed  |

| Treatment |  | Treat symptomatically.                                |
|-----------|--|---|
|           |  | Keep under medical supervision for at least 48 hours. |

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#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media Suitable extinguishing media : Carbon dioxide (CO2) Dry powder Water spray jet Alcohol-resistant foam Unsuitable extinguishing : High volume water jet media 5.2 Special hazards arising from the substance or mixture Specific hazards during fire Build-up of dangerous/toxic fumes possible in cases of : fire/high temperature. fighting Hazardous combustion prod- : Hazardous decomposition products due to incomplete comucts bustion Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). 5.3 Advice for firefighters Special protective equipment : In the event of fire, wear self-contained breathing apparatus. for fire-fighters Use personal protective equipment. Further information Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## **SECTION 6: Accidental release measures**

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

| Personal precautions | <ul> <li>Wear personal protective equipment.<br/>Evacuate personnel to safe areas.<br/>Ensure adequate ventilation, especially in confined areas.<br/>Remove all sources of ignition.<br/>Do not smoke.<br/>Avoid contact with skin, eyes and clothing.<br/>Sweep up to prevent slipping hazard.<br/>In the case of vapor formation use a respirator with an approved filter.</li> </ul> |
|----------------------|--|
|----------------------|--|

#### 6.2 Environmental precautions

| Environmental precautions | : | Do not flush into surface water or sanitary sewer system.    |
|---------------------------|---|--|
| -                         |   | Local authorities should be advised if significant spillages |
|                           |   | cannot be contained.   |

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

| Methods for cleaning up | <ul> <li>Soak up with inert absorbent material (e.g. sand, silica gel,<br/>acid binder, universal binder, sawdust).</li> <li>Keep in suitable, closed containers for disposal.</li> <li>Do not flush with water.</li> </ul> |
|-------------------------|---|
|                         |   |

#### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

#### **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

|   | • |   |
|---|---|---|
| Advice on safe handling                         | : | Keep container closed when not in use.<br>Provide sufficient air exchange and/or exhaust in work rooms.<br>Wear personal protective equipment.<br>Avoid contact with skin and eyes.<br>Avoid the inhalation of dust, particulates, spray or mist arising<br>from the application of this mixture.<br>Avoid inhalation of dust from sanding. |
| Advice on protection against fire and explosion | : | Vapors may form explosive mixtures with air. Keep away from<br>open flames, hot surfaces and sources of ignition. Do not<br>smoke. Take measures to prevent the build up of electrostatic<br>charge. Use explosion-proof equipment.   |

## 7.2 Conditions for safe storage, including any incompatibilities

| Requirements for storage areas and containers  | : | Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.   |
|--|---|---|
| Further information on stor-<br>age conditions | : | Keep away from heat and sources of ignition. Protect from moisture. Keep away from direct sunlight. Do not store at temperatures above 30 °C / 86 °F. |
| Advice on common storage                       | : | Incompatible with oxidizing agents.<br>Keep away from food and drink.   |
| Storage class (TRGS 510)                       | : | 3   |
| 7.3 Specific end use(s)<br>Specific use(s)     | : | No data available   |

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

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

| Components CAS-No. | Value type (Form of exposure) | Control parameters | Basis |  |
|--------------------|-------------------------------|--------------------|-------|--|
|--------------------|-------------------------------|--------------------|-------|--|

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|-----------------|--|--|---|-------------------------------------|--|--|
| Talc            | 14807-96-6   | AGW (Inhalable fraction)   | 10 mg/m3  | DE TRGS<br>900                      |  |  |
|                 | Peak-limit ca  |  |   |                                     |  |  |
|                 | Further inform   | nation: When there is  | s compliance with the OEL<br>of harming the unborn child  |                                     |  |  |
|                 |  | AGW (Alveolate fraction)   | 1,25 mg/m3  | DE TRGS<br>900                      |  |  |
|                 | Peak-limit ca  | ,  |   |                                     |  |  |
|                 | Further inform   | nation: When there is  | s compliance with the OEL<br>of harming the unborn child  |                                     |  |  |
|                 |  | TWA (Respirable dust)  | 0,1 mg/m3   | 2004/37/EC                          |  |  |
|                 | Eurther inform   | nation: Carcinogens  | or mutagens   |                                     |  |  |
|                 |  | BM (Alveolar<br>dust fraction)   | 0,5 mg/m3   | DE TRGS<br>527                      |  |  |
| styrene         | 100-42-5   | AGW  | 20 ppm<br>86 mg/m3  | DE TRGS<br>900                      |  |  |
|                 | Peak-limit ca  | tegory: 2:(II)   |   |                                     |  |  |
|                 |  |  | s compliance with the OEL   | and biological                      |  |  |
|                 | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child   |  |   |                                     |  |  |
|                 |  | MAK  | 20 ppm<br>86 mg/m3  | DE DFG MA                           |  |  |
|                 | Further information: Substances that cause cancer in humans or animals or  |  |   |                                     |  |  |
|                 |  |  | genic for humans and for w  |                                     |  |  |
|                 | can be derive  |  | nbryo or foetus is unlikely v   |                                     |  |  |
| Barium sulphate | 7727-43-7  | AGW (Inhalable fraction)   | 10 mg/m3  | DE TRGS<br>900                      |  |  |
|                 | Peak-limit ca  | tegory: 2;(II)   | •   |                                     |  |  |
|                 |  |  | s compliance with the OEL   | and biological                      |  |  |
|                 |  |  | of harming the unborn child   |                                     |  |  |
|                 |  | AGW (Alveolate fraction)   | 1,25 mg/m3  | DE TRGS<br>900                      |  |  |
|                 | Peak-limit ca  | tegory: 2;(II)   |   |                                     |  |  |
|                 |  |  | s compliance with the OEL<br>of harming the unborn child  |                                     |  |  |
|                 |  | MAK (measured as the alveolate   | 0,3 mg/m3   | DE DFG MA                           |  |  |
|                 | Eurthor inform   | fraction)  | hat cause cancer in human   |                                     |  |  |
|                 | Further information: Substances that cause cancer in humans or animals or that are considered to be carcinogenic for humans and for which a MAK value can be derived., Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed. |  |   |                                     |  |  |
|                 |  | BAT value is observe   | bd  |                                     |  |  |
|                 |  | BAT value is observe<br>MAK (inhalable<br>fraction)                          | ed<br>4 mg/m3   | DE DFG MA                           |  |  |
|                 | Further inform<br>that are cons<br>can be derive   | MAK (inhalable<br>fraction)<br>nation: Substances t<br>idered to be carcinog | 4 mg/m3<br>hat cause cancer in human<br>genic for humans and for w<br>mbryo or foetus is unlikely | is or animals or<br>hich a MAK valu |  |  |

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|                |   | Peak-limit category: 2;(II)<br>Further information: When there is compliance with the OEL and biological<br>tolerance values, there is no risk of harming the unborn child |  |  |   |  |
|                |   |  | AGW (Alveolate fraction)   | 1,25 mg/m3<br>(Titanium dioxide)   | DE TRGS<br>900  |  |
|                |   |  | nation: When there   | is compliance with the OEL a of harming the unborn child   | nd biological   |  |
|                |   |  | BM (Alveolar dust fraction)  | 0,5 mg/m3  | DE TRGS<br>527  |  |
|                |   |  | MAK (measured<br>as the alveolate<br>fraction)   | 0,3 mg/m3  | DE DFG MAK  |  |
|                |   |  | or animals or<br>ich a MAK value<br>hen the MAK  |  |   |  |
| malei          | ic anhydride  | 108-31-6   | AGW (Vapour<br>and aerosols)   | 0,02 ppm<br>0,081 mg/m3  | DE TRGS<br>900  |  |
|                |   | Further inform<br>tablished, tha<br>in combination<br>OEL and biolo  | t never can be exce<br>n with an exceeding<br>ogical tolerance val<br>nce sensitizing thro | I cases also a momentary val<br>eded. This substance will be<br>g value., When there is compl<br>ues, there is no risk of harmir<br>ugh the skin and respiratory s | indicated by = =<br>iance with the<br>og the unborn<br>system |  |
|                |   |  | Mow  | 0,05 ppm<br>0,2 mg/m3  | DE DFG MAK  |  |
|                |   | Further information: Danger of sensitization of the airways and the skin age to the embryo or foetus is unlikely when the MAK value or the BAT is observed                 |  |  |   |  |
|                |   |  | MAK  | 0,02 ppm<br>0,081 mg/m3  | DE DFG MAK  |  |
|                | Further information: Danger of sensitization of the airways and the skin,<br>age to the embryo or foetus is unlikely when the MAK value or the BAT<br>is observed |  |  |  |   |  |

#### **Biological occupational exposure limits**

| Substance name | CAS-No.  | Control parameters   | Sampling time  | Basis         |
|----------------|----------|--|--|---------------|
| styrene        | 100-42-5 | mandelic acid +<br>phenylglyoxylic<br>acid: 600 mg/g<br>creatinine<br>(Urine)    | In case of long-<br>term exposure:<br>after more than<br>one shift, Immedi-<br>ately after expo-<br>sure or after work-<br>ing hours         | TRGS 903      |
|                |          | mandelic acid plus<br>phenylglyoxylic<br>acid: 600 mg/g<br>creatinine<br>(Urine) | end of shift, for<br>long-term expo-<br>sures after several<br>previous shifts,<br>Immediately after<br>exposition or after<br>working hours | DE DFG<br>BAT |

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#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name   | End Use   | Routes of expo-<br>sure | Potential health ef-<br>fects                       | Value               |
|------------------|-----------|-------------------------|---|---------------------|
| styrene          | Workers   | Dermal                  | Long-term systemic<br>effects, Chronic ef-<br>fects | 406 mg/kg<br>bw/day |
|                  | Workers   | Inhalation              | Long-term systemic<br>effects, Chronic ef-<br>fects | 85 mg/m3            |
|                  | Workers   | Inhalation              | Acute systemic ef-<br>fects, Chronic effects        | 289 mg/m3           |
|                  | Workers   | Inhalation              | Acute local effects,<br>Short-term exposure         | 306 mg/m3           |
|                  | Consumers | Oral                    | Long-term systemic<br>effects, Chronic ef-<br>fects | 2,1 mg/kg<br>bw/day |
|                  | Consumers | Dermal                  | Long-term systemic<br>effects, Chronic ef-<br>fects | 343 mg/kg<br>bw/day |
|                  | Consumers | Inhalation              | Long-term systemic<br>effects, Chronic ef-<br>fects | 10,2 mg/m3          |
|                  | Consumers | Inhalation              | Acute systemic ef-<br>fects, Short-term<br>exposure | 174,25 mg/m3        |
|                  | Consumers | Inhalation              | Acute local effects,<br>Short-term exposure         | 182,75 mg/m3        |
| maleic anhydride | Workers   | Inhalation              | Long-term systemic effects                          | 0,081 mg/m3         |
|                  | Workers   | Inhalation              | Acute systemic ef-<br>fects                         | 0,2 mg/m3           |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name   | Environmental Compartment    | Value                            |
|------------------|------------------------------|----------------------------------|
| styrene          | Fresh water                  | 0,028 mg/l                       |
|                  | Sea water                    | 0,014 mg/l                       |
|                  | Fresh water sediment         | 0,614 mg/kg dry<br>weight (d.w.) |
|                  | Sea sediment                 | 0,307 mg/kg dry<br>weight (d.w.) |
|                  | Soil                         | 0,2 mg/kg dry<br>weight (d.w.)   |
|                  | Sewage treatment plant (STP) | 5 mg/l                           |
| maleic anhydride | Fresh water                  | 0,038 mg/l                       |
|                  | Sea water                    | 0,004 mg/l                       |
|                  | Fresh water sediment         | 0,296 mg/kg dry<br>weight (d.w.) |
|                  | Sea sediment                 | 0,03 mg/kg dry<br>weight (d.w.)  |
|                  | Soil                         | 0,037 mg/kg dry<br>weight (d.w.) |
|                  | Sewage treatment plant (STP) | 44,6 mg/l                        |

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#### 8.2 Exposure controls

| Personal protective equipment<br>Eye/face protection  |  |
|---|--|
| Hand protection<br>Material :<br>Break through time :<br>Glove thickness :<br>Directive :<br>Protective index : | Fluorinated rubber<br>> 480 min<br>>= 0,4 mm<br>DIN EN 374<br>Class 6  |
| Remarks :   | Gloves should be discarded and replaced if there is any indi-<br>cation of degradation or chemical breakthrough. The data<br>about break through time/strength of material are standard<br>values! The exact break through time/strength of material has<br>to be obtained from the producer of the protective glove. The<br>choice of an appropriate glove does not only depend on its<br>material but also on other quality features and is different<br>from one producer to the other. Preventive skin protection<br>Butyl gloves are not suitable. Nitrile gloves are not suitable.<br>Avoid natural rubber gloves. |
| Skin and body protection :  | Please wear suitable protective clothing, e.g. made of cotton<br>or heat-resistant synthetic fibres.<br>Long sleeved clothing  |
| Respiratory protection :  | Apply technical measures to comply with the occupational<br>exposure limits.<br>If exposure cannot be avoided by the provision of local ex-<br>haust ventilation, suitable respiratory protective equipment<br>should be used.<br>Dry sanding, flame cutting and/or welding of the cured materi-<br>al will give rise to dust and/or hazardous fumes.<br>Use the indicated respiratory protection if the occupational<br>exposure limit is exceeded and/or in case of product release<br>(dust).   |
| Filter type :   | Combined particulates and organic vapor type (A-P)   |
| Protective measures :   | Ensure that eye flushing systems and safety showers are<br>located close to the working place.<br>Avoid contact with the skin and the eyes.<br>Use only with adequate ventilation.   |

## **SECTION 9: Physical and chemical properties**

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

Physical state : paste

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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|---|---|
| Color   | : beige   |
| Odor  | : characteristic  |
| Melting point/range                                 | : -30 °C<br>Literary value styrene  |
| Boiling point/boiling range                         | : 145 °C (1.013 hPa)<br>Literary value styrene  |
| Upper explosion limit / Upper flammability limit    | : 6,1 %(V)<br>Literary value styrene  |
| Lower explosion limit / Lower<br>flammability limit | : 1,1 %(V)<br>Literary value styrene  |
| Flash point   | : 31 °C(1.013 hPa)<br>Literary value styrene  |
| Autoignition temperature                            | : 490 °C (1.013 hPa)<br>Literary value styrene  |
| Decomposition temperature                           | : No data available   |
| рН  | : Not applicable substance/mixture is non-soluble (in water)                          |
| Viscosity<br>Viscosity, dynamic                     | : not determined  |
| Viscosity, kinematic                                | : not determined  |
| Solubility(ies)<br>Water solubility                 | : 0,32 g/l (25 °C)<br>Literary value styrene  |
| Partition coefficient: n-<br>octanol/water          | : log Pow: 2,96 (25 °C)<br>Literary value styrene                                     |
| Vapor pressure                                      | : 6,67 hPa (20 °C)<br>Literary value styrene  |
| Density   | : ca. 1,8 g/cm3 (20 °C)   |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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|------------|--|---------------------------------------|---|--|--|--|
|            |  |                                       |   |  |  |  |
|            | Relative vapor density                 | : No data available                   |   |  |  |  |
|            | Particle characteristics<br>Assessment | : This substance/ m                   | : This substance/ mixture contains nanoforms                      |  |  |  |
|            | Particle size                          | : Further particle pr                 | roperties for nanomaterials see section 3                         |  |  |  |
| 9.2        | Other information                      |                                       |   |  |  |  |
|            | Explosives                             | : Not explosive<br>In use, may form t | flammable/explosive vapour-air mixture.                           |  |  |  |
|            | Flammability (liquids)                 | : Flammable                           |   |  |  |  |
|            | Self-ignition                          | : not auto-flammab                    | le  |  |  |  |

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if used as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

| Hazardous reactions :       | Avoid radical-forming starting agents, peroxides and reactive<br>metals.<br>Polymerization can occur.Polymerization is a highly exother-<br>mic reaction and may generate sufficient heat to cause ther-<br>mal decomposition and/or rupture containers. |
|-----------------------------|--|
| 10.4 Conditions to avoid    |  |
| Conditions to avoid :       | Heat, flames and sparks.<br>Strong sunlight for prolonged periods.   |
| 10.5 Incompatible materials |  |
| Materials to avoid :        | Strong acids and oxidizing agents<br>polymerization initiators<br>Copper<br>Copper alloys<br>Brass   |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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#### **10.6 Hazardous decomposition products**

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

| Acute toxicity<br>Not classified due to lack of a | data. |   |
|---|-------|---|
| Product:  |       |   |
| Acute inhalation toxicity                         | :     | Acute toxicity estimate: > 20 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapor<br>Method: Calculation method  |
| Components:                                       |       |   |
| styrene:  |       |   |
| Acute oral toxicity                               | :     | LD50 Oral (Rat): 5.000 mg/kg  |
| Acute inhalation toxicity                         | :     | LC50 (Rat): 11,8 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapor   |
| Acute dermal toxicity                             | :     | LD50 Dermal (Rat): > 2.000 mg/kg<br>Method: OECD Test Guideline 402   |
| maleic anhydride:                                 |       |   |
| Acute oral toxicity                               | :     | LD50 Oral (Rat): 1.090 mg/kg<br>Method: OECD Test Guideline 401   |
| Acute inhalation toxicity                         | :     | LC50 (Rat): > 4,35 mg/l<br>Exposure time: 1 h<br>Test atmosphere: dust/mist<br>Assessment: The substance or mixture has no acute inhala-<br>tion toxicity |
| Acute dermal toxicity                             | :     | LD50 Dermal (Rabbit): 2.620 mg/kg   |
| Talc:   |       |   |
| Acute oral toxicity                               | :     | LD50 Oral (Rat): 5.000 mg/kg<br>Method: OECD Test Guideline 423   |
| Acute inhalation toxicity                         | :     | Assessment: The substance or mixture has no acute inhala-<br>tion toxicity  |
| Acute dermal toxicity                             | :     | LD50 Dermal (Rat): > 2.000 mg/kg<br>Method: OECD Test Guideline 402   |

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|------------------|--|--------|---------------------------------|---|
| Skin c           | orrosion/irritation                                    |        |                                 |   |
| Cause            | s skin irritation.                                     |        |                                 |   |
| <u>Comp</u>      | onents:  |        |                                 |   |
| styren           | e:   |        |                                 |   |
| Specie<br>Result |  |        | Rabbit<br>rritating             |   |
|                  | ıs eye damage/eye irri                                 | itatio | ı                               |   |
|                  | s serious eye irritation.                              |        |                                 |   |
| <u>Comp</u>      | onents:  |        |                                 |   |
| styren           |  | -      |                                 |   |
| Specie<br>Result |  |        | Rabbit<br>rritating             |   |
| Respi            | ratory or skin sensitiz                                | ation  |                                 |   |
|                  | ensitization<br>ause an allergic skin rea              | action |                                 |   |
| Respi            | ratory sensitization<br>assified due to lack of da     |        |                                 |   |
| <u>Comp</u>      | onents:  |        |                                 |   |
| styren           | e:   |        |                                 |   |
| Specie<br>Result |  |        | Guinea pig<br>Does not cause sł | kin sensitization.  |
| maleid           | anhydride:   |        |                                 |   |
| Result           |  | : 7    | The product is a s              | kin sensitizer, sub-category 1A.  |
|                  | <b>cell mutagenicity</b><br>assified due to lack of da | ata.   |                                 |   |
|                  | <b>nogenicity</b><br>assified due to lack of da        | ata.   |                                 |   |
| -                | <b>ductive toxicity</b><br>cted of damaging the u      | nborn  | child.                          |   |
| Comp             | onents:  |        |                                 |   |
| styren           | e:   |        |                                 |   |
| Reproo<br>sessm  | ductive toxicity - As-<br>ent                          | 6      |                                 | aging the unborn child., Some evidence of<br>a development, based on animal experi- |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

## **Carsystem MULTI extralang**

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|---------|-------------------------|---------|--------------------------|---|
| STOT    | -single exposure        |         |                          |   |
| Not cla | assified due to lack of | f data. |                          |   |
| Comp    | oonents:                |         |                          |   |
| styrer  | ne:                     |         |                          |   |
| Asses   | sment                   | :       | May cause respi          | ratory irritation.  |
| STOT    | -repeated exposure      |         |                          |   |
|         | es damage to organs     |         | h prolonged or rei       | peated exposure.  |
|         | oonents:                |         |                          |   |
| styrer  | ne:                     |         |                          |   |
| Route   | s of exposure           | :       | Inhalation               |   |
|         | t Organs                | :       | hearing organs           |   |
| Asses   | sment                   | :       | Causes damage exposure.  | to organs through prolonged or repeated                           |
|         |                         |         | ·                        |   |
| malei   | c anhydride:            |         |                          |   |
|         | s of exposure           | :       | Inhalation               |   |
| •       | t Organs                | :       | Respiratory syste        |   |
| Asses   | sment                   | :       | exposure.                | to organs through prolonged or repeated                           |
| Aspir   | ation toxicity          |         |                          |   |
| Not cl  | assified due to lack of | f data. |                          |   |
| _       |                         |         |                          |   |

## Components:

**styrene:** May be fatal if swallowed and enters airways.

#### 11.2 Information on other hazards

#### Endocrine disrupting properties

## Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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## **SECTION 12: Ecological information**

#### 12.1 Toxicity

| Components:   |   |   |
|---|---|---|
| <b>styrene:</b><br>Toxicity to fish   | : | LC50 (Pimephales promelas (fathead minnow)): 4,02 mg/l<br>Exposure time: 96 h   |
| Toxicity to daphnia and other aquatic invertebrates                         | : | EC50 (Daphnia magna (Water flea)): 4,7 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                         |
| Toxicity to algae/aquatic plants  | : | EC50 (Selenastrum capricornutum (green algae)): 4,9 mg/l<br>Exposure time: 72 h   |
|   |   | EC10 (Selenastrum capricornutum (green algae)): 0,28 mg/l<br>Exposure time: 96 h  |
| Toxicity to microorganisms  | : | EC50 (Natural microorganism): ca. 500 mg/l<br>Method: OECD Test Guideline 209   |
| Toxicity to daphnia and other aquatic invertebrates (Chron-<br>ic toxicity) | : | NOEC: 1,01 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Method: OECD Test Guideline 211              |
| Ecotoxicology Assessment<br>Chronic aquatic toxicity                        | : | Harmful to aquatic life with long lasting effects.  |
| maleic anhydride:   |   |   |
| Toxicity to fish  | : | LC50 (Lepomis macrochirus (Bluegill sunfish)): 75 mg/l<br>Exposure time: 96 h<br>Method: EPA-660/3-75-00                      |
| Toxicity to daphnia and other aquatic invertebrates                         | : | EC50 (Daphnia magna (Water flea)): 37,9 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                        |
| Toxicity to algae/aquatic plants  | : | EC50 (Pseudokirchneriella subcapitata (green algae)): 65,78<br>mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| Toxicity to daphnia and other aquatic invertebrates (Chron-<br>ic toxicity) | : | NOEC: 10 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)   |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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|--|--|---|--|
| Ecotoxicology Assessment                   | t  |   |  |
| Chronic aquatic toxicity                   |  | has no known ecotoxicological effects.  |  |
| 12.2 Persistence and degradabi             | ility  |   |  |
| Components:                                |  |   |  |
| styrene:                                   |  |   |  |
| Biodegradability                           | : Result: Read<br>Biodegradati<br>Exposure tim |   |  |
| maleic anhydride:                          |  |   |  |
| Biodegradability                           | Biodegradati<br>Exposure tim                   | Result: Readily biodegradable.<br>Biodegradation: > 90 %<br>Exposure time: 225 d<br>Method: OECD Test Guideline 301B  |  |
| 12.3 Bioaccumulative potential             |  |   |  |
| Components:                                |  |   |  |
| styrene:                                   |  |   |  |
| Partition coefficient: n-<br>octanol/water | : log Pow: 2,96                                | : log Pow: 2,96 (25 °C)   |  |
| maleic anhydride:                          |  |   |  |
| Partition coefficient: n-<br>octanol/water | : log Pow: -2,6                                | 51 (20 °C)  |  |
| Talc:                                      |  |   |  |
| Partition coefficient: n-<br>octanol/water | : log Pow: -9,4<br>pH: 7                       | (25 °C)   |  |
| 12.4 Mobility in soil                      |  |   |  |
| No data available                          |  |   |  |
| 12.5 Results of PBT and vPvB a             | issessment                                     |   |  |
| Product:                                   |  |   |  |
| Assessment                                 | to be either p<br>very persiste                | This substance/mixture contains no components considered<br>to be either persistent, bioaccumulative and toxic (PBT), or<br>very persistent and very bioaccumulative (vPvB) at levels of<br>0.1% or higher. |  |
| 12.6 Endocrine disrupting prop             | erties   |   |  |
| Product:                                   |  |   |  |
| Assessment                                 | : The substand                                 | ce/mixture does not contain components consid-  |  |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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|----------------|--|---|----------------------------|---|
|                |  |   | REACH Article 5            | locrine disrupting properties according to<br>7(f) or Commission Delegated regulation<br>or Commission Regulation (EU) 2018/605 at<br>higher. |
| 12.7 Ot        | her adverse effects                            |   |                            |   |
| Ad             | oduct:<br>Iditional ecological infor-<br>ation | : | No data available          | 9   |

## **SECTION 13: Disposal considerations**

| 13.1 Waste treatment methods |   |
|------------------------------|---|
| Product :                    | Do not dispose of with domestic refuse.<br>Do not empty into drains, dispose of this material and its con-<br>tainer at hazardous or special waste collection point.<br>Dispose of in accordance with local regulations.<br>Dispose of wastes in an approved waste disposal facility.<br>Send to a licensed waste management company.                     |
| Contaminated packaging :     | Empty containers should be taken to an approved waste han-<br>dling site for recycling or disposal.<br>Store containers and offer for recycling of material when in<br>accordance with the local regulations.<br>Packaging that is not properly emptied must be disposed of as<br>the unused product.<br>Dispose of in accordance with local regulations. |
| Waste Code :                 | The following Waste Codes are only suggestions: 07 02 08, other still bottoms and reaction residues   |

## **SECTION 14: Transport information**

#### 14.1 UN number or ID number

| ADN                          | : | UN 1866               |
|------------------------------|---|-----------------------|
| ADR                          | : | UN 1866               |
| RID                          | : | UN 1866               |
| IMDG                         | : | UN 1866               |
| ΙΑΤΑ                         | : | UN 1866               |
| 14.2 UN proper shipping name |   |                       |
| ADN                          | : | <b>RESIN SOLUTION</b> |
| ADR                          | : | <b>RESIN SOLUTION</b> |
| RID                          | : | <b>RESIN SOLUTION</b> |
|                              |   |                       |

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|--|---|---|
| IMDG<br>IATA   | : RESIN SOLUTIO                         | DN  |
| 14.3 Transport hazard class(es)  |   |   |
|  | Class                                   | Subsidiary risks  |
| ADN  | : 3                                     |   |
| ADR  | : 3                                     |   |
| RID  | : 3                                     |   |
| IMDG   | : 3                                     |   |
| ΙΑΤΑ   | : 3                                     |   |
| 14.4 Packing group   |   |   |
| <b>ADN</b><br>Packing group<br>Classification Code<br>Hazard Identification Number<br>Labels                     | : III<br>: F1<br>: 30<br>: 3            |   |
| ADR<br>Packing group<br>Classification Code<br>Hazard Identification Number<br>Labels<br>Tunnel restriction code | : III<br>: F1<br>: 30<br>: 3<br>: (D/E) |   |
| <b>RID</b><br>Packing group<br>Classification Code<br>Hazard Identification Number<br>Labels                     | : III<br>: F1<br>: 30<br>: 3            |   |
| <b>IMDG</b><br>Packing group<br>Labels<br>EmS Code   | : III<br>: 3<br>: F-E, <u>S-E</u>       |   |
| IATA (Cargo)<br>Packing instruction (cargo<br>aircraft)  | : 366                                   |   |
| Packing instruction (LQ)<br>Packing group<br>Labels  | : Y344<br>: III<br>: Flammable Liqui    | ds  |
| IATA (Passenger)<br>Packing instruction (passen-<br>ger aircraft)  | : 355                                   |   |
| Packing instruction (LQ)<br>Packing group<br>Labels  | : Y344<br>: III<br>: Flammable Liqui    | ds  |

## 14.5 Environmental hazards

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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|---|----------------------|---------------------------|---|
| <b>ADN</b><br>Enviro                    | onmentally hazardous | : no                      |   |
| ADR<br>Environmentally hazardous        |                      | : no                      |   |
| <b>RID</b><br>Environmentally hazardous |                      | : no                      |   |
| IMDG<br>Marine                          | e pollutant          | : no                      |   |

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

## **SECTION 15: Regulatory information**

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

| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)                   | : Conditions of restriction for the fol-<br>lowing entries should be considered:<br>Number on list 75, 3 |
|--|--|
|  | If you intend to use this product as tattoo ink, please contact your ven-<br>dor.                        |
| REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).  | : Not applicable   |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer  | : Not applicable   |
| Regulation (EU) 2019/1021 on persistent organic pollu-<br>tants (recast)   | : Not applicable   |
| REACH - List of substances subject to authorisation (Annex XIV)  | : Not applicable   |
| Seveso III: Directive 2012/18/EU of the Euro-P5c pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | FLAMMABLE LIQUIDS  |
| Water hazard class (Germa- : WGK 2 obviously haza<br>ny) Classification accordin   | ardous to water<br>ng to AwSV, Annex 1 (5.2)   |

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:

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Volatile organic compounds

Directive 2004/42/EC

Volatile organic compounds (VOC) content: < 250 g/l VOC content for the product in a ready to use condition.

#### Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### 15.2 Chemical Safety Assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

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

#### Full text of H-Statements

Repr.

| H226 :<br>H302 :<br>H304 :<br>H314 :<br>H315 :<br>H317 :<br>H318 :<br>H319 :<br>H332 :<br>H334 :<br>H335 :<br>H361d :<br>H372 :<br>H372 :<br>H412 :<br>EUH071 : | <ul> <li>Flammable liquid and vapor.</li> <li>Harmful if swallowed.</li> <li>May be fatal if swallowed and enters airways.</li> <li>Causes severe skin burns and eye damage.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye damage.</li> <li>Causes serious eye damage.</li> <li>Causes serious eye irritation.</li> <li>Harmful if inhaled.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May cause respiratory irritation.</li> <li>Suspected of damaging the unborn child.</li> <li>Causes damage to organs through prolonged or repeated exposure if inhaled.</li> <li>Causes damage to organs through prolonged or repeated exposure.</li> <li>Harmful to aquatic life with long lasting effects.</li> <li>Corrosive to the respiratory tract.</li> </ul> |
|---|---|
| Full text of other abbreviations  | 5   |
| Acute Tox.:Aquatic Chronic:Asp. Tox.:Eye Dam.:Eye Irrit.:Flam. Liq.:  | Acute toxicity<br>Long-term (chronic) aquatic hazard<br>Aspiration hazard<br>Serious eye damage<br>Eye irritation<br>Flammable liquids  |

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|---|--|---|--|--|
| Resp. Sens.<br>Skin Corr.<br>Skin Irrit.<br>Skin Sens.  | <ul> <li>Respiratory sensi</li> <li>Skin corrosion</li> <li>Skin irritation</li> <li>Skin sensitization</li> </ul>   |   |  |  |
| STOT RE<br>STOT SE<br>2004/37/EC  | : Specific target or<br>: Europe. Directive  | Specific target organ toxicity - repeated exposure<br>Specific target organ toxicity - single exposure<br>Europe. Directive 2004/37/EC on the protection of workers<br>from the risks related to exposure to carcinogens or mutagens<br>at work |  |  |
| DE DFG BAT<br>DE DFG MAK<br>DE TRGS 527<br>DE TRGS 900<br>TRGS 903<br>2004/37/EC / TWA<br>DE DFG MAK / Mow<br>DE DFG MAK / MAK<br>DE TRGS 527 / BM<br>DE TRGS 900 / AGW | <ul> <li>Germany. MAK B</li> <li>Germany. TRGS</li> <li>Germany. TRGS</li> <li>c - Biological limit</li> <li>Long term expose</li> <li>Momentary value</li> <li>MAK value</li> <li>Assessment scale</li> </ul> |   |  |  |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response: GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

## **Carsystem MULTI extralang**

| Versio<br>3.1 | on<br>DE / EN           | Revision Date:<br>16.07.2024 | Date of last issue: 09.11.2023<br>Date of first issue: 14.06.2022 |
|---------------|-------------------------|------------------------------|---|
| F             | Further information     |                              |   |
| C             | Classification of the m | nixture:                     | Classification procedure:   |
| F             | Flam. Liq. 3            | H226                         | Based on product data or assessment                               |
| S             | Skin Irrit. 2           | H315                         | Calculation method  |
| E             | Eye Irrit. 2            | H319                         | Calculation method  |
| S             | Skin Sens. 1            | H317                         | Calculation method  |
| F             | Repr. 2                 | H361d                        | Calculation method  |
| 5             | STOT RE 1               | H372                         | Calculation method  |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DE / EN

## **BPO-Härter rot**

| Version |         | Revision Date: | Date of last issue: 27.02.2024  |
|---------|---------|----------------|---------------------------------|
| 2.4     | DE / EN | 25.03.2024     | Date of first issue: 11.07.2022 |

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

| 1.1 | 1.1 Product identifier            |      |   |  |  |
|-----|-----------------------------------|------|---|--|--|
|     | Trade name                        | :    | BPO-Härter rot  |  |  |
|     | Product code                      | :    | 143.197   |  |  |
| 1.2 | Relevant identified uses of th    | ne s | substance or mixture and uses advised against               |  |  |
|     | Use of the Sub-<br>stance/Mixture | :    | Curing chemical   |  |  |
|     | Recommended restrictions on use   | :    | Industrial use, professional use, public use                |  |  |
| 1.3 | Details of the supplier of the    | e sa | ifety data sheet  |  |  |
|     | Company                           | :    | JASA AG<br>Müslistrasse 43<br>8957 Spreitenbach<br>Schweiz  |  |  |
|     |                                   |      | info@jasa-ag.ch, www.jasa-ag.ch                             |  |  |
|     | Telephone<br>Telefax              |      | +41 (0)44 431 60 70<br>+41 (0)44 432 63 17                  |  |  |
|     | Responsible Department            | : F  | Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch |  |  |
|     |                                   |      |   |  |  |

## 1.4 Emergency telephone

| Telephone | : | Tox Info Suisse (STIZ), Tel: 145 |
|-----------|---|----------------------------------|
|-----------|---|----------------------------------|

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

## **BPO-Härter rot**

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## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

| Classification (REGULATION (EC) No 12<br>Organic peroxides, Type E | <b>72/2008)</b><br>H242: Heating may cause a fire.          |
|--|---|
| Eye irritation, Category 2   | H319: Causes serious eye irritation.                        |
| Skin sensitization, Category 1                                     | H317: May cause an allergic skin reaction.                  |
| Short-term (acute) aquatic hazard, Cate-<br>gory 1                 | H400: Very toxic to aquatic life.                           |
| Long-term (chronic) aquatic hazard, Cat-<br>egory 1                | H410: Very toxic to aquatic life with long lasting effects. |

#### 2.2 Label elements

| Labelling | (REGULATION | (EC) No | 1272/2008) |  |
|-----------|-------------|---------|------------|--|
|           |             |         | L          |  |

2

Hazard pictograms



| Signal Word              | : | Warning      |  |
|--------------------------|---|--------------|--|
| Hazard Statements        | : | H317<br>H319 | Heating may cause a fire.<br>May cause an allergic skin reaction.<br>Causes serious eye irritation.<br>Very toxic to aquatic life with long lasting effects. |
| Precautionary Statements | : | 1            | If medical advice is needed, have product con-<br>tainer or label at hand.<br>Keep out of reach of children.   |
|                          |   | Prevention:  |  |
|                          |   |              | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.   |
|                          |   | :            | Keep/Store away from clothing/ strong acids, ba-<br>ses, heavy metal salts and other reducing sub-<br>stances /combustible materials.                        |
|                          |   |              | Keep only in original packaging.   |
|                          |   |              | Avoid release to the environment.  |
|                          |   |              | Wear protective gloves/ protective clothing/ eye protection/ face protection.  |
|                          |   | Response:    |  |
|                          |   | P302 + P352  | IF ON SKIN: Wash with plenty of soap and water.  |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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|----------------|---------|---|---|
|                |         | ter<br>pre  | P338 IF IN EYES: Rinse cautiously with wa-<br>for several minutes. Remove contact lenses, if<br>sent and easy to do. Continue rinsing.<br>t medical advice/ attention if you feel unwell. |
|                |         | Storage:  |   |
|                |         | P403 + P235 Store in a well-ventilated place. Keep cool.<br>P410 Protect from sunlight. |   |
|                |         | Disposal:   |   |
|                |         | fac   | pose of contents/ container to an approved<br>ility in accordance with local, regional, national<br>d international regulations.  |

#### Hazardous ingredients which must be listed on the label:

dibenzoyl peroxide

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical nature : Mixture contains Organic Peroxide

#### Components

| Chemical name      | CAS-No.  | Classification  | Concentration |
|--------------------|--|---|---------------|
|                    | EC-No.   |   | (% w/w)       |
|                    | Index-No.  |   | · · · ·       |
|                    | Registration number                                      |   |               |
| dibenzoyl peroxide | 94-36-0<br>202-327-6<br>617-008-00-0<br>01-2119511472-50 | Org. Perox. B; H241<br>Eye Irrit. 2; H319<br>Skin Sens. 1; H317<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410 | >= 45 - <= 52 |
|                    |  | M-Factor (Acute   |               |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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| ersion<br>4 | DE / EN | Revision Date: 25.03.2024                            | Date of last issue: 27.02.2024<br>Date of first issue: 11.07.2022   |             |
|-------------|---------|--|---|-------------|
|             |         |  | aquatic toxicity): 10<br>M-Factor (Chronic<br>aquatic toxicity): 10 |             |
| ethar       | nediol  | 107-21-1<br>203-473-3<br>603-027-00-1<br>01-21194568 | Acute Tox. 4; H302<br>STOT RE 2; H373<br>(Kidney)                   | >= 1 - < 10 |

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first-aid measures

| <ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>Move out of dangerous area.</li> <li>Take off contaminated clothing and shoes immediately.</li> <li>Show this material safety data sheet to the doctor in attendance.</li> <li>First aider needs to protect himself.</li> </ul> |
|---|
| : Move to fresh air.<br>Get medical attention.  |
| : Wash off immediately with soap and plenty of water.<br>Call a physician if irritation persists.   |
| <ul> <li>Rinse immediately with plenty of water, also under the eyelids,<br/>for at least 15 minutes.</li> <li>Keep eye wide open while rinsing.</li> <li>Remove contact lenses.</li> <li>Consult a physician.</li> </ul>   |
| : Rinse mouth with water.<br>Do NOT induce vomiting.<br>Call a physician immediately.   |
| s and effects, both acute and delayed   |
| : May cause an allergic skin reaction.<br>Causes serious eye irritation.  |
| ate medical attention and special treatment needed  |
| : Treat symptomatically.  |
|   |

## 5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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|-------------|----------------------------------|------------------------------------|-----|---|--|
|             |                                  |                                    |     | Dry powder<br>Water spray jet<br>Alcohol-resistant f        | ōam  |
|             | Unsuita<br>media                 | able extinguishing                 | :   | High volume wate  | r jet  |
| 5.2 \$      | 5.2 Special hazards arising from |                                    | the | substance or mix  | kture  |
|             | Specific fighting                |                                    | :   | Hazardous decom tions.                                      | nposition products formed under fire condi-  |
| 5.3         | Advice                           | for firefighters                   |     |   |  |
|             | •                                | l protective equipment<br>fighters | :   | Wear self-contain   | ed breathing apparatus and protective suit.  |
|             | Further                          | information                        | :   | Collect contamina<br>must not be disch<br>Fire residues and | o cool unopened containers.<br>ted fire extinguishing water separately. This<br>arged into drains.<br>contaminated fire extinguishing water must<br>accordance with local regulations. |

## **SECTION 6: Accidental release measures**

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

|  |  | Personal precautions | : | Wear personal protective equipment.<br>Evacuate personnel to safe areas.<br>Ensure adequate ventilation, especially in confined areas.<br>Remove all sources of ignition.<br>Do not smoke.<br>Avoid contact with skin, eyes and clothing.<br>In the case of vapor formation use a respirator with an ap-<br>proved filter. |
|--|--|----------------------|---|--|
|--|--|----------------------|---|--|

#### 6.2 Environmental precautions

| Environmental precautions | : | Do not flush into surface water or sanitary sewer system.    |
|---------------------------|---|--|
|                           |   | Local authorities should be advised if significant spillages |
|                           |   | cannot be contained.   |

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

| Do not flush with water. |
|--------------------------|
|--------------------------|

#### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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7.3

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## **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling Technical measures : Ensure that eyewash stations and safety showers are close to the workstation location. Advice on safe handling : Use only with adequate ventilation.

| Advice on sale handling                         |   | <ul> <li>Disc only with adequate ventilation.</li> <li>Provide sufficient air exchange and/or exhaust in work rooms.</li> <li>Wear personal protective equipment.</li> <li>Keep away from heat and sources of ignition.</li> <li>Handle and open container with care.</li> <li>Keep container tightly closed and dry.</li> <li>Never return unused material to storage receptacle.</li> <li>Risk of decomposition.</li> <li>Prevent contamination with readily oxidizable materials and polymerization accelerators.</li> <li>Avoid inhalation of vapor or mist.</li> <li>In case of insufficient ventilation, wear suitable respiratory equipment.</li> <li>Avoid release to the environment.</li> </ul> |
|---|---|---|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. Keep away<br>from open flames, hot surfaces and sources of ignition. Keep<br>away from direct sunlight. Avoid shock and friction. Take<br>measures to prevent the build up of electrostatic charge. Use<br>explosion-proof equipment.   |
|   |   |   |

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

| contaitions for sale storage,                 | inc |  |
|---|-----|--|
| Requirements for storage areas and containers | :   | Store in original container. Avoid letting the product become<br>dry. Keep containers tightly closed in a cool, well-ventilated<br>place. Store between 41 and 77 °F in a dry, well ventilated<br>place away from sources of heat, ignition and direct sunlight. |
| Advice on common storage                      | :   | Keep away from food, drink and animal feedingstuffs.<br>Keep away from reducing agents.<br>Incompatible with acids and bases.<br>Heavy metal compounds   |
| Storage class (TRGS 510)                      | :   | 5.2  |
| Recommended storage tem-<br>perature          | :   | 5 - 25 °C  |
| Specific end use(s)                           |     |  |
| Specific use(s)                               | :   | No data available<br>The rules which cover amongst other things the requirement<br>for ventilation, protective clothing, personal protective equip-<br>ment etc. can be obtained from the National Occupational  |

Health and Safety Board.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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

#### 8.1 Control parameters

#### **Occupational Exposure Limits**

| Components  | CAS-No.   | Value type (Form of exposure)  | Control parameters                       | Basis          |  |  |
|---|---|--|--|----------------|--|--|
| dibenzoyl peroxide  | 94-36-0   | · · · · · · · · · · · · · · · · · · ·  |  | DE TRGS<br>900 |  |  |
|   | Peak-limit cat  | egory: 1;(I)   |  |                |  |  |
|   |   | MAK (measured  | 1 mg/m3                                  | DE DFG MAK     |  |  |
|   |   | as the alveolate fraction)   |  |                |  |  |
|   |   | nation: Damage to th<br>the BAT value is ob                                    | e embryo or foetus is unlikely<br>served | / when the     |  |  |
|   |   | MAK (inhalable fraction)   | 4 mg/m3                                  | DE DFG MAK     |  |  |
|   | Further information: Damage to the embryo or foetus is unlikely when MAK value or the BAT value is observed   |  |  |                |  |  |
| ethanediol  | 107-21-1  | STEL   | 40 ppm<br>104 mg/m3                      | 2000/39/EC     |  |  |
|   | Further inform skin, Indicativ  | information: Identifies the possibility of significant uptake through dicative |  |                |  |  |
|   |   | TWA  | 20 ppm<br>52 mg/m3                       | 2000/39/EC     |  |  |
| Further information: Identifies the possibility of significant uptal skin, Indicative                             |   |  |  | e through the  |  |  |
|   |   | AGW (Vapour<br>and aerosols)   | 10 ppm<br>26 mg/m3                       | DE TRGS<br>900 |  |  |
|   | Peak-limit category: 2;(I)  |  |  |                |  |  |
|   | Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |  |  |                |  |  |
|   |   | MAK  | 10 ppm<br>26 mg/m3                       | DE DFG MAK     |  |  |
| Further information: Danger of absorption through<br>embryo or foetus is unlikely when the MAK value of<br>served |   |  |  |                |  |  |

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name     | End Use   | Routes of expo-<br>sure | Potential health ef-<br>fects | Value                |
|--------------------|-----------|-------------------------|-------------------------------|----------------------|
| dibenzoyl peroxide | Consumers | Oral                    | Long-term systemic effects    | 2 mg/kg<br>bw/day    |
|                    | Workers   | Dermal                  | Long-term systemic effects    | 13,3 mg/kg<br>bw/day |
|                    | Workers   | Inhalation              | Long-term systemic effects    | 39 mg/m3             |
| ethanediol         | Workers   | Inhalation              | Long-term local ef-<br>fects  | 35 mg/m3             |
|                    | Workers   | Dermal                  | Long-term systemic effects    | 106 mg/kg            |

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|----------------|--|-----------|---|------------------------------|----------|
|                |  | Consumers | Inhalation  | Long-term local ef-<br>fects | 7 mg/m3  |
|                |  | Consumers | Dermal  | Long-term systemic effects   | 53 mg/kg |

## Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name     | Environmental Compartment    | Value                              |
|--------------------|------------------------------|------------------------------------|
| dibenzoyl peroxide | Fresh water                  | 0,00002 mg/l                       |
|                    | Intermittent use/release     | 0,000602 mg/l                      |
|                    | Sea water                    | 0,000002 mg/l                      |
|                    | Fresh water sediment         | 0,0127 mg/kg dry<br>weight (d.w.)  |
|                    | Sea sediment                 | 0,00127 mg/kg<br>dry weight (d.w.) |
|                    | Soil                         | 0,0025 mg/kg dry<br>weight (d.w.)  |
|                    | Sewage treatment plant (STP) | 0,35 mg/l                          |
| ethanediol         | Fresh water                  | 10 mg/l                            |
|                    | Sea water                    | 1 mg/l                             |
|                    | Intermittent use/release     | 10 mg/l                            |
|                    | Sewage treatment plant (STP) | 199,5 mg/l                         |
|                    | Fresh water sediment         | 20,9 mg/kg                         |
|                    | Soil                         | 1,53 mg/kg                         |

#### 8.2 Exposure controls

| <b>Personal protective equipm</b><br>Eye/face protection                           | afety glasses with side-shields conf  | orming to EN166   |
|--|---|---|
| Hand protection<br>Material  | eoprene gloves  |   |
| Material<br>Break through time<br>Glove thickness<br>Directive<br>Protective index | trile rubber<br>30 min<br>= 0,14 mm<br>IN EN 374<br>ass 2   |   |
| Remarks  | loves should be discarded and replation of degradation or chemical bre<br>bout break through time/strength of<br>lues! The exact break through time<br>be obtained from the producer of the<br>loce of an appropriate glove does r<br>aterial but also on other quality feat<br>on one producer to the other. | eakthrough. The data<br>material are standard<br>strength of material has<br>ne protective glove. The<br>not only depend on its |
| Skin and body protection   | ease wear suitable protective clothi<br>heat-resistant synthetic fibres.<br>ong sleeved clothing  | ng, e.g. made of cotton   |
| Respiratory protection   | oply technical measures to comply to posure limits.   | with the occupational   |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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|----------------|------------------|--|---|
|                |                  | limit they must                                    | are facing concentrations above the exposure<br>use appropriate certified respirators.<br>lequate ventilation wear respiratory protection.                |
| I              | Filter type      | : Combined par                                     | ticulates and organic vapor type (A-P)  |
| Pro            | tective measures | Ensure that ey<br>located close t<br>Avoid contact | o not eat, drink or smoke.<br>/e flushing systems and safety showers are<br>to the working place.<br>with the skin and the eyes.<br>adequate ventilation. |

## **SECTION 9: Physical and chemical properties**

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

| Physical state  | : | • •                           |
|---|---|-------------------------------|
| Color   | : | red                           |
| Odor  | : | characteristic                |
| Odor Threshold  | : | not determined                |
| Melting point/range                                     | : | 0 °C                          |
| Boiling point/boiling range                             | : | Not applicable                |
| Upper explosion limit / Upper<br>flammability limit     | : | Not applicable                |
| Lower explosion limit / Lower<br>flammability limit     | : | Not applicable                |
| Flash point   | : | Not applicable, Decomposition |
| Autoignition temperature                                | : | Not applicable                |
| Self-Accelerating decomposi-<br>tion temperature (SADT) | : | 50 °C                         |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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|--|---|---|
| рН   | : 4 - 5 (20 °C)                                 |   |
| Viscosity<br>Viscosity, dynamic            | : not determined                                |   |
| Viscosity, kinematic                       | : not determined                                |   |
| Solubility(ies)<br>Water solubility        | : insoluble                                     |   |
| Partition coefficient: n-<br>octanol/water | : No data availabl                              | e   |
| Vapor pressure                             | : 23 hPa<br>(for a componen                     | t of this mixture)  |
| Density                                    | : 1,15 - 1,25 g/cm                              | 3 (20 °C)   |
| Relative vapor density                     | : not determined                                |   |
| 9.2 Other information                      |   |   |
| Oxidizing properties                       | : Organic peroxide                              | e   |
|  | Sustains combu                                  | stion   |
| Organic peroxides                          | : Peroxide conten<br>The substance c<br>type E. | t: 50 %<br>or mixture is an organic peroxide classified as        |

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if used as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

| Hazardous reactions | : Risk of decomposition.   |
|---------------------|--|
|                     | Reacts violently in contact with acids, amines, driers, polymer- |
|                     | ization accelerators and easily oxidized materials.              |

10.4 Conditions to avoid

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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|----------------|--------------------|-----------------------------------|--|
| Cond           | itions to avoid    | Extremes<br>Keep awa<br>Contact w | oose to temperatures above: > 25 °C<br>of temperature and direct sunlight.<br>y from heat and sources of ignition.<br>th incompatible substances can cause decomposi-<br>below SADT. |
| 10.5 Incor     | mpatible materials |                                   |  |
| Mater          | rials to avoid     |                                   | rs, strong acids and bases, heavy metals and<br>al salts, reducing agents  |

#### **10.6 Hazardous decomposition products**

Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

## **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

| Acute toxicity<br>Not classified due to lack of da | ata. |  |  |  |  |
|--|------|--|--|--|--|
| Product:<br>Acute oral toxicity                    | :    | Acute toxicity estimate: > 2.000 mg/kg                                     |  |  |  |
|  |      | Method: Calculation method   |  |  |  |
| Components:  |      |  |  |  |  |
| dibenzoyl peroxide:                                |      |  |  |  |  |
| Acute oral toxicity                                | :    | LD50 Oral (Rat): > 2.000 mg/kg   |  |  |  |
| Acute inhalation toxicity                          | :    | LC0 (Rat): > 24,3 mg/l<br>Exposure time: 4 h                               |  |  |  |
| ethanediol:  |      |  |  |  |  |
| Acute inhalation toxicity                          | :    | LC50 (Rat): > 2,5 mg/l<br>Exposure time: 6 h<br>Test atmosphere: dust/mist |  |  |  |
| Acute dermal toxicity                              | :    | LD50 Dermal (Mouse): > 3.500 mg/kg   |  |  |  |
| Skin corrosion/irritation                          | nta  |  |  |  |  |
| Serious eye damage/eye irritation                  |      |  |  |  |  |
| Causes serious eye irritation.                     |      |  |  |  |  |
| Respiratory or skin sensitization                  |      |  |  |  |  |
| Skin sensitization                                 |      |  |  |  |  |
| NAL  |      |  |  |  |  |

May cause an allergic skin reaction.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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|--------------|---|---------------------------|--|
|              | Respiratory sensitization<br>Not classified due to lack of              | data.                     |  |
|              | Germ cell mutagenicity<br>Not classified due to lack of                 | data.                     |  |
|              | <b>Carcinogenicity</b><br>Not classified due to lack of                 | data.                     |  |
|              | Reproductive toxicity Not classified due to lack of                     | data.                     |  |
|              | STOT-single exposure Not classified due to lack of                      | data.                     |  |
|              | STOT-repeated exposure<br>Not classified due to lack of                 | data.                     |  |
| 9            | Components:   |                           |  |
| <br>-        | <b>ethanediol:</b><br>Routes of exposure<br>Target Organs<br>Assessment |                           | e or mixture is classified as specific target organ ated exposure, category 2. |
|              | Aspiration toxicity<br>Not classified due to lack of                    | data.                     |  |
| <u>(</u>     | Components:   |                           |  |
|              | ethanediol:<br>No aspiration toxicity classit                           | ication                   |  |
| 11.2         | Information on other haza   | rds                       |  |
| I            | Endocrine disrupting pro  | perties                   |  |

## Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

**Components:** 

dibenzoyl peroxide:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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|---------------|----------------------|--|---|--|---|
| Т             | oxicity              | to fish  | : | LC50 (Oncorhync<br>Exposure time: 96<br>Method: OECD Te                      |   |
|               |                      |  |   | NOEC (Oncorhyn<br>Exposure time: 96  | chus mykiss (rainbow trout)): 0,0316 mg/l<br>s h                  |
|               |                      | to daphnia and other invertebrates                   | : | EC50 (Daphnia m<br>Exposure time: 48<br>Method: OECD Te                      |   |
|               |                      |  |   | NOEC (Daphnia n<br>Exposure time: 48<br>Method: OECD Te                      |   |
|               | oxicity<br>lants     | to algae/aquatic                                     | : | EC50 (Pseudokiro<br>mg/l<br>Exposure time: 72<br>Method: OECD Te             |   |
|               |                      |  |   | NOEC (Pseudokir<br>mg/l<br>Exposure time: 72<br>Method: OECD Te              |   |
|               | /I-Facto<br>city)    | or (Acute aquatic tox-                               | : | 10   |   |
| a             |                      | to daphnia and other<br>invertebrates (Chron-<br>ty) | : | EC10: 0,001 mg/l<br>Exposure time: 21<br>Species: Daphnia<br>Method: OECD Te | magna (Water flea)  |
|               | /I-Facto<br>oxicity) | or (Chronic aquatic                                  | : | 10   |   |
| e             | thane                | diol:  |   |  |   |
| Т             | oxicity              | to fish  | : | LC50 (Pimephales<br>Exposure time: 96  | s promelas (fathead minnow)): > 72.860 mg/l<br>5 h                |
|               |                      | to daphnia and other invertebrates                   | : | EC50 (Daphnia m<br>Exposure time: 48<br>Method: OECD Te                      |   |
|               | oxicity<br>lants     | to algae/aquatic                                     | : | NOEC (algae): > 7<br>Exposure time: 72<br>Method: OECD Te                    | 2 h   |
|               | oxicity<br>city)     | to fish (Chronic tox-                                | : | NOEC: 15.380 mg<br>Exposure time: 7 g<br>Species: Pimepha                    |   |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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|----------------|---|---------|--|---|
|                | ity to daphnia and other<br>tic invertebrates (Chron-<br>icity) | E       | NOEC: 8.590 mg/<br>Exposure time: 7 c<br>Species: Ceriodap                       |   |
| 12.2 Pers      | istence and degradabi   | lity    |  |   |
| Com            | ponents:  |         |  |   |
| diber          | nzoyl peroxide:   |         |  |   |
| Biode          | egradability  | E       | Result: Readily bio<br>Biodegradation: 7<br>Exposure time: 28<br>Method: OECD Te | ′1 %  |
| ethar          | nediol:   |         |  |   |
| Biode          | egradability  | E       | Result: Readily bio<br>Biodegradation: 9<br>Exposure time: 10<br>Aethod: OECD Te | 0 - 100 %   |
| 12.3 Bioa      | ccumulative potential   |         |  |   |
| Com            | ponents:  |         |  |   |
| Partit         | nzoyl peroxide:<br>ion coefficient: n-<br>iol/water             | : 10    | og Pow: 3,2 (20 °  | C)  |
| otha           | nediol:   |         |  |   |
| Partit         | ion coefficient: n-<br>ol/water                                 | : 10    | og Pow: -1,36 (25  | э°С)  |
|                | i <b>lity in soil</b><br>ata available                          |         |  |   |
| 12.5 Resu      | Ilts of PBT and vPvB a  | ssess   | ment   |   |
| <u>Prod</u>    | uct:  |         |  |   |
| Asse           | ssment  | te<br>V | o be either persis   | xture contains no components considered<br>tent, bioaccumulative and toxic (PBT), or<br>d very bioaccumulative (vPvB) at levels of  |
| 12.6 Endo      | ocrine disrupting prope   | erties  |  |   |
| Prod           | uct:  |         |  |   |
| Asse           | ssment  | e<br>F  | ered to have endo<br>REACH Article 57  | xture does not contain components consid-<br>crine disrupting properties according to<br>(f) or Commission Delegated regulation<br>r Commission Regulation (EU) 2018/605 at |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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|--|---------------------|---|---|--|
|  |                     | levels of 0.1%                                  | 6 or higher.  |  |
| 12.7 Other   | adverse effects     |   |   |  |
| Product:<br>Additional ecological infor- : No data available<br>mation |                     |   |   |  |
| SECTION  | 13: Disposal cons   | iderations                                      |   |  |
| 13.1 Waste   | e treatment methods |   |   |  |
| Produ  | ct                  | Do not dispos<br>Do not empty<br>tainer at haza | aste streams during collection.<br>se of with domestic refuse.<br>v into drains, dispose of this material and its con-<br>ardous or special waste collection point.<br>accordance with local regulations. |  |
| Conta  | minated packaging   | the unused p                                    | at is not properly emptied must be disposed of as roduct.<br>accordance with local regulations.   |  |
| Waste  | Code                | 16 05 06, lab<br>hazardous sເ<br>icals          | Waste Codes are only suggestions:<br>oratory chemicals, consisting of or containing<br>ibstances, including mixtures of laboratory chem-<br>roxides, for example hydrogen peroxide                        |  |

# SECTION 14: Transport information

## 14.1 UN number or ID number

| ADN                          | : | UN 3108   |
|------------------------------|---|---|
| ADR                          | : | UN 3108   |
| RID                          | : | UN 3108   |
| IMDG                         | : | UN 3108   |
| ΙΑΤΑ                         | : | UN 3108   |
| 14.2 UN proper shipping name |   |   |
| ADN                          | : | ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide) |
| ADR                          | : | ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide) |
| RID                          | : | ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide) |
| IMDG                         | : | ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide) |

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|--|---|---|--|
| ΙΑΤΑ   | : Organic peroxic<br>(dibenzoyl pero            |   |  |
| 14.3 Transport hazard class(es)  |   |   |  |
|  | Class   | Subsidiary risks  |  |
| ADN  | : 5.2   |   |  |
| ADR  | : 5.2   |   |  |
| RID  | : 5.2   |   |  |
| IMDG   | : 5.2   |   |  |
| ΙΑΤΑ   | : 5.2   | HEAT  |  |
| 14.4 Packing group   |   |   |  |
| ADN<br>Packing group<br>Classification Code<br>Labels  | : Not assigned by<br>: P1<br>: 5.2              | / regulation  |  |
| <b>ADR</b><br>Packing group<br>Classification Code<br>Labels<br>Tunnel restriction code      | : Not assigned by<br>: P1<br>: 5.2<br>: (D)     | regulation  |  |
| <b>RID</b><br>Packing group<br>Classification Code<br>Hazard Identification Number<br>Labels | : P1  | 539   |  |
| <b>IMDG</b><br>Packing group<br>Labels<br>EmS Code   | : Not assigned by<br>: 5.2<br>: F-J, S-R        | / regulation  |  |
| IATA (Cargo)<br>Packing instruction (cargo<br>aircraft)<br>Packing group                     | : 570<br>: Not assigned by                      | / regulation  |  |
| Labels   |   | des, Keep Away From Heat  |  |
| IATA (Passenger)<br>Packing instruction (passen-<br>ger aircraft)<br>Packing group<br>Labels | : 570<br>: Not assigned by<br>: Organic Peroxic | / regulation<br>des, Keep Away From Heat                          |  |
| 14.5 Environmental hazards   |   |   |  |
| <b>ADN</b><br>Environmentally hazardous  | : no  |   |  |
| ADR<br>Environmentally hazardous   | : no  |   |  |

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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#### RID

Environmentally hazardous : no IMDG Marine pollutant : yes

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

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

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

| REACH - Restrictions on the manufacture, placing<br>the market and use of certain dangerous substa<br>mixtures and articles (Annex XVII)                     | •        | lowii<br>Num<br>If yo   | ditions of restriction for the fol-<br>ng entries should be considered:<br>hber on list 75<br>u intend to use this product as<br>to ink, please contact your ven- |
|--|----------|---|---|
| REACH - Candidate List of Substances of Very Concern for Authorization (Article 59).   | High     | Not   | applicable  |
| Regulation (EC) No 1005/2009 on substances the plete the ozone layer   | hat de-  | Not   | applicable  |
| Regulation (EU) 2019/1021 on persistent organi tants (recast)  | c pollu- | Not   | applicable  |
| REACH - List of substances subject to authorisa (Annex XIV)  | ation    | Not   | applicable  |
| Seveso III: Directive 2012/18/EU of the Euro-P6b pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances. |          | SELF-REACTIVE SUBSTANCES<br>AND MIXTURES and ORGANIC<br>PEROXIDES |   |
|  | E1 EI    | NVIRO   | NMENTAL HAZARDS   |
| Water hazard class (Germa- : WGK 2 obvio<br>ny) Classification   |          |   | water<br>V, Annex 1 (5.2)   |

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#### Other regulations:

BG-Merkblatt M001 beachten (German regulatory requirements) BGV B4 organische Peroxide. (German regulatory requirements)

Gefahrengruppe nach § 3 BGV B4: II (German regulatory requirements) § 5Abs. 4b : Derogation according to the Ordinance on the Prohibition of Chemicals (ChemVerbotsV)

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### **15.2 Chemical Safety Assessment**

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

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

#### Full text of H-Statements

| H241                             | : | Heating may cause a fire or explosion.   |  |
|----------------------------------|---|--|--|
| H302                             | : | Harmful if swallowed.  |  |
| H317                             | : | May cause an allergic skin reaction.   |  |
| H319                             | : | Causes serious eye irritation.   |  |
| H373                             | : | May cause damage to organs through prolonged or repeated exposure if swallowed.                                    |  |
| H400                             | : | Very toxic to aquatic life.  |  |
| H410                             | : | Very toxic to aquatic life with long lasting effects.  |  |
| Full text of other abbreviations |   |  |  |
| Acute Tox.                       | : | Acute toxicity   |  |
| Aquatic Acute                    | : | Short-term (acute) aquatic hazard  |  |
| Aquatic Chronic                  | : | Long-term (chronic) aquatic hazard   |  |
| Eye Irrit.                       | : | Eye irritation   |  |
| Org. Perox.                      | : | Organic peroxides  |  |
| Skin Sens.                       | : | Skin sensitization   |  |
| STOT RE                          | : | Specific target organ toxicity - repeated exposure   |  |
| 2000/39/EC                       |   | Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |  |
| DE DFG MAK                       | : |  |  |
| DE TRGS 900                      | : | Germany. TRGS 900 - Occupational exposure limit values.  |  |
| 2000/39/EC / TWA                 | : | Limit Value - eight hours  |  |
| 2000/39/EC / STEL                |   | Short term exposure limit  |  |
| DE DFG MAK / MAK                 |   |  |  |
| DE TRGS 900 / AGW                | : | Time Weighted Average  |  |
|                                  |   |  |  |

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

| Further information<br>Classification of the mixture: Classification procedure: |      |                                     |  |
|---|------|-------------------------------------|--|
| Org. Perox. E   | H242 | Based on product data or assessment |  |
| Eye Irrit. 2  | H319 | Calculation method                  |  |
| Skin Sens. 1  | H317 | Calculation method                  |  |
| Aquatic Acute 1   | H400 | Calculation method                  |  |
| Aquatic Chronic 1   | H410 | Calculation method                  |  |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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