according to Regulation (EC) No. 1907/2006

Carsystem Multi Green Plus

| Version | | Revision Date: | Date of last issue: 29.06.2022 | |
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

| 1.1 | Product identifier | | |
|-----|-----------------------------------|-----|---|
| | Trade name | : | Carsystem Multi Green Plus |
| | Product code | : | 152.357 |
| | This substance/ mixture conta | ins | nanoforms |
| 1.2 | Relevant identified uses of th | e s | ubstance or mixture and uses advised against |
| | Use of the Sub- stance/Mixture | : | Body filler/stopper |
| | Recommended restrictions on use | : | Reserved for industrial and professional use. |
| 1.3 | Details of the supplier of the | sa | fety data sheet |
| | Company | - | JASA AG Müslistrasse 43 8957 Spreitenbach Schweiz |
| | | | info@jasa-ag.ch, www.jasa-ag.ch |
| | Telephone Telefax | | +41 (0)44 431 60 70 +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 - single ex- posure, Category 3, Respiratory system | H335: May cause respiratory irritation. |
| On a sifing tennest survey to visite a new sets of | 1970. Courses domeses to organs through and |

Specific target organ toxicity - repeated exposure, Category 1

H372: Causes damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms



| Signal Word | : | Danger | |
|--------------------------|---|---|--|
| Hazard Statements | : | H226 Flammable liquid and vapor. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H361d Suspected of damaging the unborn child. H372 Causes damage to organs through prolonged or repeated exposure. | |
| Precautionary Statements | : | Prevention: 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:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with wa-

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| | | easy to do. Contir | utes. Remove contact lenses, if present and ue rinsing. exposed or concerned: Get medical advice/ |
| | | Storage: | |
| | | P405 Store lock | ed up. |
| | | Disposal: | |
| | | • | f contents/ container to an approved facility in ocal, regional, national and international regu- |
| | | ah muat ha liatad an | 4 1. 1 . 1 |

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. EC-No. | Classification | Concentration (% w/w) |
|---------------|---|---|--------------------------|
| | Index-No. | | · · · · |
| | Registration number | | |
| styrene | 100-42-5 202-851-5 601-026-00-0 01-2119457861-32 | Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT SE 3; H335 (Respiratory system) STOT RE 1; H372 (hearing organs) | >= 20 - < 25 |

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| maleic anhydride | 108-31-6 203-571-6 607-096-00-9 01-2119472428 | Asp. Tox. 1; H304 Aquatic Chronic 3; H412Acute toxicity estimateAcute inhalation toxicity (vapor): 11,8 mg/lAcute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT RE 1; H372 (Respiratory system) EUH071Becific concentration limit Skin Sens. 1A; H317 >= 0,001 %Acute toxicity estimate Acute toxicity estimate Acute oral toxicity: 1.090 mg/kg |
| Talc | 14807-96-6 238-877-9 | >= 30 - < 50 |
| Silicon dioxide | 7631-86-9 231-545-4 01-2119379499 | 9-16 |

For explanation of abbreviations see section 16.

This substance/ mixture contains nanoforms

Components:

Silicon dioxide:

Particle characteristics

Particle size

: 2,5 - 50 nm

single particles, (D50, number distribution), Transmission Electron Microscopy / Electron Microscopy (TEM/EM) calculation

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|---------------|--------------------------------|--|---|--|
| Assessment | | : Assessment: This substance/ mixture contains nanoforms | | |
| Shape | | : Shape: spheres | | |
| | Crystallinity | : Crystallinity: an | norphous | |
| | 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 advice immediately. Move out of dangerous area. Take off contaminated clothing and shoes immediately. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. Show this material safety data sheet to the doctor in attendance. | | | |
| 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. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. 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, for at least 15 minutes. Keep eye wide open while rinsing. If easy to do, remove contact lens, if worn. Consult a physician. | | | |
| If swallowed | : Rinse mouth with water. Do NOT induce vomiting. Call a physician immediately. | | | |
| 4.2 Most important symptoms and effects, both acute and delayed | | | | |
| Risks | Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Suspected of damaging the unborn child. | | | |

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| | | | Causes damage t exposure. | o organs through prolonged or repeated |
| 4.3 Ind | lication of any immediate | meo | dical attention and | special treatment needed |
| Tr | reatment | : | Treat symptomati Keep under medi | cally. cal supervision for at least 48 hours. |
| SECT | ION 5: Firefighting meas | sur | es | |
| 5.1 Ex | tinguishing media | | | |
| | uitable extinguishing media | : | Carbon dioxide (C Dry powder Water spray jet Alcohol-resistant | |
| | nsuitable extinguishing edia | : | High volume wate | er jet |
| 5.2 Sp | ecial hazards arising from | the | e substance or mi | xture |
| | pecific hazards during fire hting | : | Build-up of dange fire/high temperat | rous/toxic fumes possible in cases of ure. |
| | azardous combustion prod- cts | : | bustion Carbon monoxide | nposition products due to incomplete com- e, carbon dioxide and unburned hydrocar- |
| | | | bons (smoke). | |
| 5.3 Ad | vice for firefighters | | | |
| | pecial protective equipment r fire-fighters | : | | e, wear self-contained breathing apparatus. tective equipment. |
| Fı | urther information | : | Collect contamina must not be disch Fire residues and | o cool unopened containers. ated fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

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| | | proved filter. | |
| 6.2 Enviro | nmental precautions | | |
| Enviro | onmental precautions | | o surface water or sanitary sewer system. s should be advised if significant spillages ained. |
| 6.3 Metho | ds and material for co | ontainment and clea | ning up |
| Metho | ods for cleaning up | acid binder, uni | ert absorbent material (e.g. sand, silica gel, versal binder, sawdust). e, closed containers for disposal. th water. |
| 6.4 Refere | nce to other sections | | |
| For person | al protection see section | on 8., For disposal co | nsiderations see section 13. |

7.1 Precautions for safe handling

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

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- 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. Keep away from food and drink. |
| Storage class (TRGS 510) | : | 3 |
| 7.3 Specific end use(s) Specific use(s) | : | No data available |

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| 14807-96-6 Peak-limit cat | AGW (Inhalable | 10 mg/m3 | | | |
|---|--|--|---|--|--|
| Peak-limit cat | fraction) | l'o mg/mo | DE TRGS 900 | | |
| | egory: 2;(II) | · | | | |
| | | s compliance with the OEL | and biological | | |
| tolerance valu | ies, there is no risk o | of harming the unborn child | | | |
| | AGW (Alveolate fraction) | 1,25 mg/m3 | DE TRGS 900 | | |
| Peak-limit cat | egory: 2;(II) | • | • | | |
| | | s compliance with the OEL | and biological | | |
| | | | | | |
| | TWA (Respirable dust) | 0,1 mg/m3 | 2004/37/EC | | |
| Further inform | nation: Carcinogens | or mutagens | • | | |
| 100-42-5 | AGW | 20 ppm | DE TRGS 900 | | |
| Peak-limit cat | egory: 2;(II) | | • | | |
| | | compliance with the OEL | and biological | | |
| | | | | | |
| 13463-67-7 | AGW (Inhalable | 10 mg/m3 | DE TRGS 900 | | |
| Peak-limit cat | egory: 2;(II) | | | | |
| Further information: When there is compliance with the OEL and biological | | | | | |
| | | | DE TRGS | | |
| | | | 900 | | |
| Peak-limit cat | / | (| | | |
| Further information: When there is compliance with the OEL and biological | | | | | |
| 7631-86-9 | TWA (Respirable | 0,1 mg/m3 | 2004/37/EC | | |
| | | | | | |
| | | | DE TRGS | | |
| | | | 900 | | |
| Further information: When there is compliance with the OEL and biological | | | | | |
| 108-31-6 | AGW (Vapour | 0,02 ppm | DE TRGS 900 | | |
| | | | | | |
| Further inform tablished, that in combination OEL and biolo | nation: In well-found t never can be excee n with an exceeding ogical tolerance valu | eded. This substance will b value., When there is com es, there is no risk of harm | e indicated by = = pliance with the ing the unborn | | |
| | Peak-limit cat Further inform tolerance valu Further inform 100-42-5 Peak-limit cat Further inform tolerance valu 13463-67-7 Peak-limit cat Further inform tolerance valu 7631-86-9 Further inform tolerance valu 7631-86-9 Further inform tolerance valu 7631-86-9 Further inform tolerance valu 7631-86-9 Further inform tolerance valu 108-31-6 Peak-limit cat Further inform tolerance valu | AGW (Alveolate fraction)Peak-limit category: 2;(II)Further information: When there is tolerance values, there is no risk of dust)Further information: Carcinogens100-42-5AGWPeak-limit category: 2;(II)Further information: When there is tolerance values, there is no risk of 13463-67-713463-67-7AGW (Inhalable fraction)Peak-limit category: 2;(II)Further information: When there is tolerance values, there is no risk of fraction)Peak-limit category: 2;(II)Further information: When there is tolerance values, there is no risk of AGW (Alveolate fraction)Peak-limit category: 2;(II)Further information: When there is tolerance values, there is no risk of AGW (Alveolate fraction)Peak-limit category: 2;(II)Further information: When there is tolerance values, there is no risk of AGW (Inhalable fraction)Further information: Carcinogens AGW (Inhalable fraction)Further information: When there is tolerance values, there is no risk of AGW (Vapour and aerosols)Further information: In well-found tablished, that never can be exceed in combination with an exceeding OEL and biological tolerance value sit tolerance value | fraction) Peak-limit category: 2;(II) Further information: When there is compliance with the OEL tolerance values, there is no risk of harming the unborn child dust) Further information: Carcinogens or mutagens 100-42-5 AGW 20 ppm 86 mg/m3 Peak-limit category: 2;(II) Further information: When there is compliance with the OEL tolerance values, there is no risk of harming the unborn child 13463-67-7 AGW (Inhalable fraction) 10 mg/m3 (Titanium dioxide) Peak-limit category: 2;(II) Further information: When there is compliance with the OEL tolerance values, there is no risk of harming the unborn child 13463-67-7 AGW (Inhalable fraction) 10 mg/m3 (Titanium dioxide) Peak-limit category: 2;(II) Further information: When there is compliance with the OEL tolerance values, there is no risk of harming the unborn child 1,25 mg/m3 (Titanium dioxide) Peak-limit category: 2;(II) Further information: When there is compliance with the OEL tolerance values, there is no risk of harming the unborn child 1,25 mg/m3 (Titanium dioxide) Peak-limit category: 2;(II) Further information: When there is compliance with the OEL tolerance values, there is no risk of harming the unborn child 1,631-86-9 TWA (Respirable dust) 0,1 mg/m3 Further information: Carcinogens or mutagens | | |

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Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|----------------|----------|---|--|----------|
| styrene | 100-42-5 | mandelic acid + phenylglyoxylic acid: 600 mg/g Creatinine (Urine) | In case of long- term exposure: after more than one shift, Immedi- ately after expo- sure or after work- ing hours | TRGS 903 |

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

| Substance name | End Use | Routes of expo- sure | Potential health ef- fects | Value |
|------------------|-----------|-------------------------|---|---------------------|
| styrene | Workers | Dermal | Long-term systemic effects, Chronic ef- fects | 406 mg/kg bw/day |
| | Workers | Inhalation | Long-term systemic effects, Chronic ef- fects | 85 mg/m3 |
| | Workers | Inhalation | Acute systemic ef- fects, Chronic effects | 289 mg/m3 |
| | Workers | Inhalation | Acute local effects, Short-term exposure | 306 mg/m3 |
| | Consumers | Oral | Long-term systemic effects, Chronic ef- fects | 2,1 mg/kg bw/day |
| | Consumers | Dermal | Long-term systemic effects, Chronic ef- fects | 343 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects, Chronic ef- fects | 10,2 mg/m3 |
| | Consumers | Inhalation | Acute systemic ef- fects, Short-term exposure | 174,25 mg/m3 |
| | Consumers | Inhalation | Acute local effects, Short-term exposure | 182,75 mg/m3 |
| maleic anhydride | Workers | Inhalation | Long-term systemic effects | 0,081 mg/m3 |
| | Workers | Inhalation | Acute systemic ef- 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 |
| | | weight (d.w.) |
| | Sea sediment | 0,307 mg/kg dry weight (d.w.) |
| | Soil | 0,2 mg/kg dry |
| | | weight (d.w.) |

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| | 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 dr weight (d.w.) |
| | Sea sediment | 0,03 mg/kg dry weight (d.w.) |
| | Soil | 0,037 mg/kg dr weight (d.w.) |
| | Sewage treatment plant (STP) | 44,6 mg/l |
| Personal protective equi Eye/face protection | : Safety glasses with side-shields con | forming to EN166 |
| Hand protection Material | : Fluorinated rubber | |
| Break through time | 2 > 480 min | |
| Glove thickness | : >= 0,4 mm | |
| Directive | : DIN EN 374 | |
| Protective index | : Class 6 | |
| Remarks | : Gloves should be discarded and replaced if there is any indi- cation of degradation or chemical breakthrough. The data about break through time/strength of material are standard values! The exact break through time/strength of material ha to be obtained from the producer of the protective glove. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Preventive skin protection Butyl gloves are not suitable. Nitrile gloves are not suitable. Avoid natural rubber gloves. | |
| Skin and body protection | : Please wear suitable protective clothing, e.g. made of cotton or heat-resistant synthetic fibres. Long sleeved clothing | |

Respiratory protection : Apply technical measures to comply with the occupational exposure limits. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used. Dry sanding, flame cutting and/or welding of the cured material will give rise to dust and/or hazardous fumes.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

| Filter type | : | Combined particulates and organic vapor type (A-P) |
|-------------|---|--|
| | | |

Protective measures : Ensure that eye flushing systems and safety showers are

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| | | Avoid contact v | o the working place. with the skin and the eyes. adequate ventilation. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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

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| | Relativ | ve vapor density | : | No data availabl | e | |
| | | e characteristics sessment | : | Assessment: Th | is substance/ mixture contains nanoforms | |
| Particle size | | ticle size | : Further particle properties for nanomaterials see section 3 | | | |
| 9.2 | Other i i Explos | nformation ives | : | Not explosive | | |
| | Flamm | ability (liquids) | : | Flammable | I flammable/explosive vapor-air mixture. | |
| | Self-ig | | : | not auto-flamma | ble | |

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

10.6 Hazardous decomposition products

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

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SECTION 11: Toxicological information

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

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

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| | Method: OECD | Test Guideline 401 | | |
| Acute inhalation toxicity | : LC50 (Rat): > 5 Exposure time: Test atmospher Method: OECD | 4 h | | |
| Acute dermal toxicity | : LD50 Dermal (F | Rabbit): > 2.000 mg/kg | | |
| Skin corrosion/irritation Causes skin irritation. | | | | |
| Components: | | | | |
| styrene: | | | | |
| Species Result | : Rabbit : irritating | | | |
| Serious eye damage/eye | | | | |
| Causes serious eye irritation. | | | | |
| Components: | mponents: | | | |
| styrene: | | | | |
| Species Result | : Rabbit : irritating | | | |
| Respiratory or skin sensitization | | | | |
| Skin sensitization May cause an allergic skir | reaction. | | | |
| Respiratory sensitization Not classified based on av | | | | |
| Components: | | | | |
| styrene: | | | | |
| Species Result | : Guinea pig : Does not cause | skin sensitization. | | |
| maleic anhydride: | | | | |
| Result | : The product is a | a skin sensitizer, sub-category 1A. | | |
| Germ cell mutagenicity Not classified based on av | ailable information. | | | |
| Carcinogenicity | | | | |
| Not classified based on available information. | | | | |

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|--|--|----------------------------------|---|---|---|--|--|--|
| | Reproductive toxicity | | | | | | | |
| | Suspected of damaging the unborn child. | | | | | | | |
| Components: | | | | | | | | |
| ļ | styren Reproc sessmo | ductive toxicity - As- | Suspected of damaging the unborn child., Some evidence adverse effects on development, based on animal experi- ments. | | | | | |
| | STOT-single exposure May cause respiratory irritation. | | | | | | | |
| 9 | Compo | onents: | | | | | | |
| : | styren | e: | | | | | | |
| | Assess | sment | : | May cause respira | atory irritation. | | | |
| | STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure. | | | | eated exposure. | | | |
| (| Components: | | | | | | | |
| : | styren | e: | | | | | | |
| - | | s of exposure Organs sment | : | Inhalation hearing organs Causes damage t exposure. | o organs through prolonged or repeated | | | |
| I | maleic | anhydride: | | | | | | |
| | Routes | s of exposure Organs | : : | Inhalation Respiratory syste Causes damage t exposure. | m o organs through prolonged or repeated | | | |
| | • | tion toxicity | | | | | | |
| | | ssified based on availa | able | information. | | | | |
| | Compo | onents: | | | | | | |
| styrene: May be fatal if swallowed and enters airways. | | | | | | | | |
| 11.2 | Inform | nation on other hazard | ds | | | | | |
| I | Endoc | rine disrupting prope | rtie | s | | | | |
| | Produ | | | - | | | | |
| - | | <u>u.</u> | | | | | | |

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

:

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|----------------|--|----|---|---|
| | | | (EU) 2017/2100 o levels of 0.1% or l | r Commission Regulation (EU) 2018/605 at higher. |
| SECTIO | ON 12: Ecological infor | ma | tion | |
| 12.1 To | xicity | | | |
| Co | mponents: | | | |
| sty | rene: | | | |
| То | kicity to fish | : | LC50 (Pimephales Exposure time: 96 | s promelas (fathead minnow)): 4,02 mg/l s h |
| То | kicity to daphnia and other | : | | agna (Water flea)): 4,7 mg/l |
| aqu | uatic invertebrates | | Exposure time: 48 Method: OECD Te | |
| To» pla | kicity to algae/aquatic nts | : | EC50 (Selenastru Exposure time: 72 | m capricornutum (green algae)): 4,9 mg/l ? h |
| | | | EC10 (Selenastru Exposure time: 96 | m capricornutum (green algae)): 0,28 mg/l Sh |
| То | kicity to microorganisms | : | EC50 (Natural mid Method: OECD Te | croorganism): ca. 500 mg/l est Guideline 209 |
| aqu | kicity to daphnia and other uatic invertebrates (Chron- oxicity) | : | NOEC: 1,01 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te | magna (Water flea) |
| Eco | otoxicology Assessment | | | |
| | ronic aquatic toxicity | : | Harmful to aquation | c life with long lasting effects. |
| ma | leic anhydride: | | | |
| To> | kicity to fish | : | LC50 (Lepomis m Exposure time: 96 Method: EPA-660 | |
| | kicity to daphnia and other latic invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD Te | |
| To» pla | kicity to algae/aquatic nts | : | EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te | |
| | kicity to daphnia and other uatic invertebrates (Chron- | : | NOEC: 10 mg/l Exposure time: 21 | d |

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| ic toxicity) | | Species: Daphnia magna (Water flea) | | | |
| Ecotoxicology Assessment | | | | | |
| Chronic aquatic toxicity | : | This product has no known ecotoxicological effects. | | | |
| Silicon dioxide: | | | | | |
| Toxicity to fish | : | LC0 (Brachydanio rerio (zebrafish)): > 10.000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 | | | |
| Toxicity to daphnia and other aquatic invertebrates | : | Exposure time: 48 | nagna (Water flea)): > 1.000 mg/l 8 h rest Guideline 202 | | |
| 12.2 Persistence and degradabil | ity | | | | |
| Components: | | | | | |
| styrene: | | | | | |
| Biodegradability | : | Result: Readily bi Biodegradation: Exposure time: 28 | 70,9 % | | |
| maleic anhydride: | | | | | |
| Biodegradability | : | Result: Readily bi Biodegradation: Exposure time: 22 Method: OECD T | > 90 % | | |
| 12.3 Bioaccumulative potential | | | | | |
| Components: | | | | | |
| styrene: | | | | | |
| Partition coefficient: n- octanol/water | : | log Pow: 2,96 (25 | ο°C) | | |
| maleic anhydride: | | | | | |
| Partition coefficient: n- octanol/water | : | log Pow: -2,61 (20 | 0 °C) | | |
| Talc: | | | | | |
| Partition coefficient: n- octanol/water | : | log Pow: -9,4 (25 pH: 7 | °C) | | |
| Silicon dioxide: | | | | | |
| Partition coefficient: n- octanol/water | : | Remarks: Not ap | plicable | | |
| | 17 / 23 | | | | |

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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: 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.

12.6 Endocrine disrupting properties

Product:

| Assessment | : The substance/mixture does not contain components consid- ered 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. |
|------------|---|
|------------|---|

12.7 Other adverse effects

Product:

| Additional ecological infor- | : | No data available |
|------------------------------|---|-------------------|
| mation | | |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

| Product | : | Do not dispose of with domestic refuse. Do not empty into drains, dispose of this material and its con- tainer at hazardous or special waste collection point. Dispose of in accordance with local regulations. Dispose of wastes in an approved waste disposal facility. Send to a licensed waste management company. |
|------------------------|---|---|
| Contaminated packaging | : | Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Store containers and offer for recycling of material when in accordance with the local regulations. Packaging that is not properly emptied must be disposed of as the unused product. 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 |

according to Regulation (EC) No. 1907/2006

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| SECTION 14: T | ranchart infarr | | | | te of first issue: 29.06.2022 |
|--|-----------------------------|-----|-------------------------------|----|-------------------------------|
| | ransport mon | nat | ion | | |
| 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 s | shipping name | | | | |
| ADN | | : | RESIN SOLUTI | ON | |
| ADR | | : | RESIN SOLUTIO | ON | |
| RID | | : | RESIN SOLUTI | ON | |
| IMDG | | : | RESIN SOLUTIO | ON | |
| ΙΑΤΑ | | : | Resin solution | | |
| 14.3 Transport h | azard class(es) | | | | |
| | | | Class | | Subsidiary risks |
| ADN | | ÷ | 3 | | |
| ADR | | : | 3 | | |
| RID | | : | 3 | | |
| IMDG | | : | 3 | | |
| ΙΑΤΑ | | : | 3 | | |
| 14.4 Packing gro | oup | | | | |
| ADN | | | | | |
| Packing grou Classification | | : | III F1 30 3 | | |
| ADR Packing grou Classification | n Code tification Number | : | III F1 30 3 (D/E) | | |
| RID Packing grou Classification Hazard Iden Labels IMDG | | : | III F1 30 3 | | |

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| L | Packing group Labels EmS Code | : | III 3 F-E, <u>S-E</u> | |
| F F F | ATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels | : | 366 Y344 III | |
| l F G F F | ADDENS ATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels | : | Flammable Liquid 355 Y344 III Flammable Liquid | |
| 14.5 | Environmental hazards | | | |
| E | ADN Environmentally hazardous | : | no | |
| - | ADR Environmentally hazardous | : | no | |
| - | RID Environmentally hazardous | : | no | |
| | MDG Marine pollutant | : | no | |
| 14.6 | Special precautions for use | er | | |

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- lowing entries should be considered: Number on list 75, 3 | |
|--|---|--|--|
| | | If you intend to use this product as tattoo ink, please contact your ven- dor. | |
| REACH - Candidate List of Substances of Very High | : | Not applicable | |

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|-------------|---|------------------------------|---|--|--|--|
| | Concern for Authorization (A | rticle 59). | | | | |
| | Regulation (EC) No 1005/2009 on substances that de- : Not applicable plete the ozone layer | | | | | |
| | Regulation (EU) 2019/1021 on persistent organic pollu- : Not applicable tants (recast) | | | | | |
| | REACH - List of substances subject to authorisation : Not applicable (Annex XIV) | | | | | |
| | Seveso III: Directive 2012/18 pean Parliament and of the C control of major-accident haz dangerous substances. | Council on the | P5c FLAMMABLE LIQUIDS | | | |
| | Water hazard class (Germa- ny) | | usly hazardous to water according to AwSV, Annex 1 (5.2) | | | |
| | Volatile organic compounds | | /42/EC c compounds (VOC) content: < 250 g/l or 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

| H226 : | Flammable liquid and vapor. |
|--------|---|
| H302 : | Harmful if swallowed. |
| H304 : | May be fatal if swallowed and enters airways. |
| H314 : | Causes severe skin burns and eye damage. |
| H315 : | Causes skin irritation. |
| H317 : | May cause an allergic skin reaction. |
| H318 : | Causes serious eye damage. |
| H319 : | Causes serious eye irritation. |
| H332 : | Harmful if inhaled. |

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|--|---|-----|---|--|--|
| H3: H3: H30 H3 | 35 61d | : | ties if inhaled. May cause respira Suspected of dam Causes damage t | naging the unborn child. o organs through prolonged or repeated | |
| H3 H4 EU | | : | exposure if inhaled. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects. Corrosive to the respiratory tract. | | |
| Ful | Il text of other abbreviation | ons | | | |
| Aqu Asp Eye Fla Rep Rep Ski Ski Ski Sti | ute Tox. uatic Chronic o. Tox. e Dam. e Irrit. m. Liq. pr. sp. Sens. n Corr. n Irrit. n Sens. OT RE OT SE D4/37/EC | | Specific target org Europe. Directive | age S city | |
| TR 200 | TRGS 900 GS 903 04/37/EC / TWA TRGS 900 / AGW | :: | | ıre limit | |

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) Ef-

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fect 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

| Classification of the mixt | ıre: | Classification procedure: | |
|----------------------------|-------|-------------------------------------|--|
| Flam. Liq. 3 | H226 | Based on product data or assessment | |
| Skin Irrit. 2 | H315 | Calculation method | |
| Eye Irrit. 2 | H319 | Calculation method | |
| Skin Sens. 1 | H317 | Calculation method | |
| Repr. 2 | H361d | Calculation method | |
| STOT SE 3 | H335 | Calculation method | |
| 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.

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

| 1.1 | Product identifier | | |
|-----|-----------------------------------|-----|---|
| | Trade name | : | BPO-Härter rot |
| | Product code | : | 152.598 |
| 1.2 | Relevant identified uses of th | e s | ubstance or mixture and uses advised against |
| | Use of the Sub- stance/Mixture | : | Curing chemical |
| | Recommended restrictions on use | : | Industrial use, professional use, public use |
| 1.3 | Details of the supplier of the | sa | fety data sheet |
| | Company | | JASA AG Müslistrasse 43 8957 Spreitenbach Schweiz |
| | | | info@jasa-ag.ch, www.jasa-ag.ch |
| | Telephone Telefax | | +41 (0)44 431 60 70 +41 (0)44 432 63 17 |
| | Responsible Department | : F | Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch |
| | Francisco de la relación | | |

1.4 Emergency telephone

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

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

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

| Classification (REGULATION (EC) No 12 Organic peroxides, Type E | 72/2008) 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- gory 1 | H400: Very toxic to aquatic life. |
| Long-term (chronic) aquatic hazard, Cat- egory 1 | H410: Very toxic to aquatic life with long lasting effects. |

2.2 Label elements

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

÷

Hazard pictograms



| Signal Word | : | Warning | |
|--------------------------|---|--------------|--|
| Hazard Statements | : | H317 H319 | Heating may cause a fire. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects. |
| Precautionary Statements | : | 1 | If medical advice is needed, have product con- tainer or label at hand. 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- ses, heavy metal salts and other reducing sub- 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 pre | P338 IF IN EYES: Rinse cautiously with wa- for several minutes. Remove contact lenses, if sent and easy to do. Continue rinsing. t medical advice/ attention if you feel unwell. |
| | | Storage: | |
| | | | Store in a well-ventilated place. Keep cool. otect from sunlight. |
| | | Disposal: | |
| | | fac | pose of contents/ container to an approved ility in accordance with local, regional, national 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 | 94-36-0 202-327-6 617-008-00-0 01-2119511472-50 | Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; 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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|-------------|---------|--|---|-------------|
| | | | aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 | |
| ethar | nediol | 107-21-1 203-473-3 603-027-00-1 01-21194568 | Acute Tox. 4; H302 STOT RE 2; H373 (Kidney) | >= 1 - < 10 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

| In the case of accident or if you feel unwell, seek medical advice immediately. Move out of dangerous area. Take off contaminated clothing and shoes immediately. Show this material safety data sheet to the doctor in attendance. First aider needs to protect himself. |
|---|
| : Move to fresh air. Get medical attention. |
| : Wash off immediately with soap and plenty of water. Call a physician if irritation persists. |
| Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses. Consult a physician. |
| : Rinse mouth with water. Do NOT induce vomiting. Call a physician immediately. |
| s and effects, both acute and delayed |
| : May cause an allergic skin reaction. 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 Water spray jet Alcohol-resistant f | ōam |
| | Unsuita media | able extinguishing | : | High volume wate | r jet |
| 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 fighters | : | Wear self-contain | ed breathing apparatus and protective suit. |
| | Further | information | : | Collect contamina must not be disch Fire residues and | o cool unopened containers. ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| | | Personal precautions | : | Wear personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Do not smoke. Avoid contact with skin, eyes and clothing. In the case of vapor formation use a respirator with an ap- 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 | | Disc only with adequate ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Keep away from heat and sources of ignition. Handle and open container with care. Keep container tightly closed and dry. Never return unused material to storage receptacle. Risk of decomposition. Prevent contamination with readily oxidizable materials and polymerization accelerators. Avoid inhalation of vapor or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid release to the environment. |
|---|---|---|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight. Avoid shock and friction. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. |
| | | |

7.2 Conditions for safe storage, including any incompatibilities

| oblighter of the storage, | inc | |
|---|-----|--|
| Requirements for storage areas and containers | : | Store in original container. Avoid letting the product become dry. Keep containers tightly closed in a cool, well-ventilated place. Store between 41 and 77 °F in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. |
| Advice on common storage | : | Keep away from food, drink and animal feedingstuffs. Keep away from reducing agents. Incompatible with acids and bases. Heavy metal compounds |
| Storage class (TRGS 510) | : | 5.2 |
| Recommended storage tem- perature | : | 5 - 25 °C |
| Specific end use(s) | | |
| Specific use(s) | : | No data available The rules which cover amongst other things the requirement for ventilation, protective clothing, personal protective equip- 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 | AGW (Inhalable fraction) | 5 mg/m3 | DE TRGS 900 | |
| | Peak-limit cat | egory: 1;(I) | | | |
| | | MAK (measured | 1 mg/m3 | DE DFG MAK | |
| | | as the alveolate fraction) | | | |
| | | nation: Damage to th the BAT value is ob | e embryo or foetus is unlikely served | / when the | |
| | | MAK (inhalable fraction) | 4 mg/m3 | DE DFG MAK | |
| | | nation: Damage to th the BAT value is ob | e embryo or foetus is unlikely served | / when the | |
| ethanediol | 107-21-1 | STEL | 40 ppm 104 mg/m3 | 2000/39/EC | |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | | |
| | | TWA | 20 ppm 52 mg/m3 | 2000/39/EC | |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | | |
| | | AGW (Vapour and aerosols) | 10 ppm 26 mg/m3 | DE TRGS 900 | |
| | Peak-limit category: 2;(I) | | | | |
| | Further inform | 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 26 mg/m3 | DE DFG MAK | |
| | Further information: Danger of absorption through the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed | | | | |

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

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

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

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|----------------|---------|----------------------|------------|---|----------|--|
| | | Consumers | Inhalation | Long-term local ef- 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 weight (d.w.) |
| | Sea sediment | 0,00127 mg/kg dry weight (d.w.) |
| | Soil | 0,0025 mg/kg dry 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

| Personal protective equipm Eye/face protection | afety glasses with side-shields conf | orming to EN166 |
|--|---|---|
| Hand protection Material | eoprene gloves | |
| Material Break through time Glove thickness Directive Protective index | trile rubber 30 min = 0,14 mm IN EN 374 ass 2 | |
| Remarks | loves should be discarded and replation of degradation or chemical bre bout break through time/strength of lues! The exact break through time be obtained from the producer of the loce of an appropriate glove does r aterial but also on other quality feat on one producer to the other. | eakthrough. The data material are standard strength of material has ne protective glove. The not only depend on its |
| Skin and body protection | ease wear suitable protective clothi heat-resistant synthetic fibres. 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 | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of inadequate ventilation wear respiratory protection. | |
| Filter type | | : Combined par | ticulates and organic vapor type (A-P) | |
| Protective measures | | Ensure that ey located close t Avoid contact | o not eat, drink or smoke. /e flushing systems and safety showers are to the working place. with the skin and the eyes. 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 flammability limit | : | Not applicable |
| Lower explosion limit / Lower flammability limit | : | Not applicable |
| Flash point | : | Not applicable, Decomposition |
| Autoignition temperature | : | Not applicable |
| Self-Accelerating decomposi- 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 Viscosity, dynamic | : not determined | |
| Viscosity, kinematic | : not determined | |
| Solubility(ies) Water solubility | : insoluble | |
| Partition coefficient: n- octanol/water | : No data availabl | e |
| Vapor pressure | : 23 hPa (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 The substance c type E. | t: 50 % 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 Keep awa Contact w | oose to temperatures above: > 25 °C of temperature and direct sunlight. y from heat and sources of ignition. th incompatible substances can cause decomposi- below SADT. |
| 10.5 Incor | mpatible materials | | |
| Mater | rials to avoid | | rs, strong acids and bases, heavy metals and 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 Not classified due to lack of da | ata. | | | |
|--|------|--|--|--|
| Product: 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 Exposure time: 4 h | | |
| ethanediol: | | | | |
| Acute inhalation toxicity | : | LC50 (Rat): > 2,5 mg/l Exposure time: 6 h Test atmosphere: dust/mist | | |
| Acute dermal toxicity | : | LD50 Dermal (Mouse): > 3.500 mg/kg | | |
| Skin corrosion/irritation Not classified due to lack of data. | | | | |
| 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 Not classified due to lack of | data. | |
| | Germ cell mutagenicity Not classified due to lack of | data. | |
| | Carcinogenicity 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 Not classified due to lack of | data. | |
| 9 | Components: | | |
| - | ethanediol: Routes of exposure Target Organs Assessment | | e or mixture is classified as specific target organ ated exposure, category 2. |
| | Aspiration toxicity Not classified due to lack of | data. | |
| <u>(</u> | Components: | | |
| | ethanediol: 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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|--|---|--|---|
| Toxicity to fish | : | LC50 (Oncorhync Exposure time: 96 Method: OECD Te | |
| | | NOEC (Oncorhyn Exposure time: 96 | chus mykiss (rainbow trout)): 0,0316 mg/l s h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD Te | |
| | | NOEC (Daphnia n Exposure time: 48 Method: OECD Te | |
| Toxicity to algae/aquatic plants | : | EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te | |
| | | NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te | |
| M-Factor (Acute aquatic tox- icity) | : | 10 | |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | EC10: 0,001 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te | magna (Water flea) |
| M-Factor (Chronic aquatic toxicity) | : | 10 | |
| ethanediol: | | | |
| Toxicity to fish | : | LC50 (Pimephales Exposure time: 96 | s promelas (fathead minnow)): > 72.860 mg/l s h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD Te | |
| Toxicity to algae/aquatic plants | : | NOEC (algae): > 7 Exposure time: 72 Method: OECD Te | h . |
| Toxicity to fish (Chronic tox- icity) | : | NOEC: 15.380 mg Exposure time: 7 d 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 tic invertebrates (Chron- icity) | E | NOEC: 8.590 mg/ Exposure time: 7 c Species: Ceriodap | |
| 12.2 Pers | istence and degradabi | lity | | |
| Com | ponents: | | | |
| diber | nzoyl peroxide: | | | |
| Biode | egradability | E | Result: Readily bio Biodegradation: 7 Exposure time: 28 Method: OECD Te | ′1 % |
| ethar | nediol: | | | |
| Biode | egradability | E | Result: Readily bio Biodegradation: 9 Exposure time: 10 Aethod: OECD Te | 0 - 100 % |
| 12.3 Bioa | ccumulative potential | | | |
| Com | ponents: | | | |
| Partit | nzoyl peroxide: ion coefficient: n- iol/water | : 10 | og Pow: 3,2 (20 ° | C) |
| otha | nediol: | | | |
| Partit | ion coefficient: n- ol/water | : 10 | og Pow: -1,36 (25 | э°С) |
| | i lity in soil ata available | | | |
| 12.5 Resu | Ilts of PBT and vPvB a | ssess | ment | |
| <u>Prod</u> | uct: | | | |
| Asse | ssment | te V | o be either persis | xture contains no components considered tent, bioaccumulative and toxic (PBT), or d very bioaccumulative (vPvB) at levels of |
| 12.6 Endo | ocrine disrupting prope | erties | | |
| Prod | uct: | | | |
| Asse | ssment | e F | ered to have endo REACH Article 57 | xture does not contain components consid- crine disrupting properties according to (f) or Commission Delegated regulation 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 | | |
| Produ Additic mation | onal ecological infor- | : No data avail | able |
| SECTION | 13: Disposal cons | iderations | |
| 13.1 Waste | treatment methods | | |
| Produc | ct | Do not dispos Do not empty tainer at haza | aste streams during collection. se of with domestic refuse. v into drains, dispose of this material and its con- ardous or special waste collection point. accordance with local regulations. |
| Contar | ninated packaging | the unused p | at is not properly emptied must be disposed of as roduct. accordance with local regulations. |
| Waste | Code | 16 05 06, lab hazardous su icals | Waste Codes are only suggestions: oratory chemicals, consisting of or containing ibstances, including mixtures of laboratory chem- 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 peroxid (dibenzoyl perox | |
| 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 Packing group Classification Code Labels | : Not assigned by : P1 : 5.2 | regulation |
| ADR Packing group Classification Code Labels Tunnel restriction code | : Not assigned by : P1 : 5.2 : (D) | regulation |
| RID Packing group Classification Code Hazard Identification Number Labels | : Not assigned by : P1 : 539 : 5.2 | regulation |
| IMDG Packing group Labels EmS Code | : Not assigned by : 5.2 : F-J, S-R | regulation |
| IATA (Cargo) Packing instruction (cargo aircraft) | : 570 | |
| Packing group Labels | : Not assigned by : Organic Peroxid | regulation les, Keep Away From Heat |
| IATA (Passenger) Packing instruction (passen- ger aircraft) | : 570 | |
| Packing group Labels | : Not assigned by : Organic Peroxid | r regulation les, Keep Away From Heat |
| 14.5 Environmental hazards | | |
| ADN Environmentally hazardous | : no | |
| ADR 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 the market and use of certain dangerous substa mixtures and articles (Annex XVII) | • | lowir Num If yo | ditions of restriction for the fol- ng entries should be considered: ober on list 75 u intend to use this product as o 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- pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | A | | ACTIVE SUBSTANCES TURES and ORGANIC DES |
| | E1 EI | NVIROI | NMENTAL HAZARDS |
| Water hazard class (Germa- : WGK 2 obvio ny) Classification | | | water V, Annex 1 (5.2) |

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

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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 | | |
| | | | | |

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

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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 Classification of the m | nixture: | 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 |

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

BPO-Härter rot

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