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## **MEFISTO SHOCK**

| Version | Revision Date: | SDS Number:  | Date of last issue: 25.04.2024   |
|---------|----------------|--------------|----------------------------------|
| 2.0     | 03.12.2024     | 215000009788 | Country / Language: GB / 6N (EN) |

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

| 1.1 Product identifier   |       |   |
|--|-------|---|
| Trade name   | :     | MEFISTO SHOCK   |
| Product code   | :     | 0000000062648082  |
| 1.2 Relevant identified uses of t                                | he s  | substance or mixture and uses advised against   |
| Use of the Sub-<br>stance/Mixture                                | :     | Insecticide   |
| Recommended restrictions on use                                  | :     | Professional use  |
| 1.3 Details of the supplier of the                               | e saf | ety data sheet  |
| Company  | :     | Antec International Limited<br>Windham Road<br>CO10 2XD Sudbury / Suffolk<br>Chilton Industrial Estate, Great Britain |
| Responsible Department   | :     | +49 221 8885 2288<br>infosds@lanxess.com  |
| <b>1.4 Emergency telephone numb</b><br>Emergency telephone numbe |       | For 24/7 multilingual emergency please call<br>CHEMTREC EMEA: +44 20 3885 0382 and mention                            |

CCN1018725.

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

| Skin corrosion, Sub-category 1B       | H314: Causes severe skin burns and eye damage.                                   |
|---------------------------------------|--|
| Serious eye damage, Category 1        | H318: Causes serious eye damage.   |
| Respiratory sensitisation, Category 1 | H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin sensitisation, Category 1        | H317: May cause an allergic skin reaction.                                       |



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|----------------|--------------------------------|-------------------------|---------------------------------|--|
| Shor<br>gory   | -term (acute) aquatic h<br>1   | azard, Cate-            | H400: Very toxic to             | aquatic life.                                |
| Long<br>egory  | -term (chronic) aquatic<br>/ 1 | hazard, Cat-            | H410: Very toxic to<br>effects. | aquatic life with long lasting               |

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

| Hazard pictograms                 | : |  |
|-----------------------------------|---|--|
| Signal word                       | : | Danger   |
| Hazard statements                 | : | <ul> <li>H290 May be corrosive to metals.</li> <li>H302 Harmful if swallowed.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>  |
| Supplemental Hazard<br>Statements | : | EUH071Corrosive to the respiratory tract.  |
| Precautionary statements          | : | <ul> <li>Prevention:</li> <li>P261 Avoid breathing mist or vapours.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.</li> <li>P284 Wear respiratory protection.</li> </ul>  |
|                                   |   | Response:P301 + P330 + P331IF SWALLOWED: Rinse mouth. DoNOT induce vomiting.P303 + P361 + P353IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.P304 + P340 + P310IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call aPOISON CENTER/ doctor.P305 + P351 + P338 + P310IF IN EYES: Rinse cautiouslywith water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call aPOISON CENTER/ doctor.P342 + P311If experiencing respiratory symptoms: Call aPOISON CENTER/ doctor.P391Collect spillage. |



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## II

Hazardous components which must be listed on the label:

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides glutaral deltamethrin (ISO) (R)-p-mentha-1,8-diene

### 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.

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

### 3.2 Mixtures

### Components

| Chemical name   | CAS-No.                               | Classification   | Concentration |
|---|---------------------------------------|--|---------------|
|   | EC-No.                                |  | (% w/w)       |
|   | Index-No.                             |  |               |
|   | Registration number                   |  |               |
| Quaternary ammonium compounds,<br>benzyl-C12-16-alkyldimethyl, chlo-<br>rides | 68424-85-1<br>270-325-2               | Acute Tox. 4; H302<br>Skin Corr. 1B;<br>H314<br>Eye Dam. 1; H318<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410   | >= 30 - < 50  |
|   |                                       | M-Factor (Acute<br>aquatic toxicity): 10<br>M-Factor (Chronic<br>aquatic toxicity): 1  |               |
| glutaral  | 111-30-8<br>203-856-5<br>605-022-00-X | Acute Tox. 3; H301<br>Acute Tox. 2; H330<br>Skin Corr. 1B;<br>H314<br>Eye Dam. 1; H318<br>Resp. Sens. 1;<br>H334<br>Skin Sens. 1A;<br>H317<br>STOT SE 3; H335<br>(Respiratory sys-<br>tem)<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 2;<br>H411<br>EUH071 | >= 10 - < 20  |



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|----------------|------------------------------|---------------------------------------|---|-----------------|
|                |                              |                                       | M-Factor (Acute<br>aquatic toxicity): 1                       |                 |
| hydro          | carbons                      | Not Assigne<br>918-811-1              |   | >= 10 - < 20    |
| deltar         | nethrin (ISO)                | 52918-63-5<br>258-256-6<br>607-319-00 | Acute Tox. 3; H331  | >= 0.25 - < 1   |
| (R)-p          | -mentha-1,8-diene            | 5989-27-5<br>227-813-5<br>601-096-00  | Flam. Liq. 3; H226<br>Skin Irrit. 2; H315                     | >= 0.1 - < 0.25 |

### Specific Concentration limits (Regulation EC) No 1272/2008)

|               |           | -000/          |               |
|---------------|-----------|----------------|---------------|
| Chemical name | CAS-No.   | Classification | Concentration |
|               | EC-No.    |                | (%)           |
| glutaral      | 111-30-8  | STOT SE3; H335 | 0.5 - < 5 %   |
|               | 203-856-5 |                |               |

For explanation of abbreviations see section 16.

Disclaimer: EC numbers starting with 6, 7, 8, or 9 in this document are ECHA List Numbers used for internal reference and do not carry legal significance as typical EC Numbers in Safety Data Sheets.

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

#### 4.1 Description of first aid measures General advice Move out of dangerous area. : Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. Protection of first-aiders No action shall be taken involving any personal risk or without : suitable training. If inhaled : Call a physician or poison control centre immediately. If unconscious, place in recovery position and seek medical advice. In case of skin contact Wash off with soap and plenty of water. ÷ . Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Immediately flush eye(s) with plenty of water. In case of eye contact Continue rinsing eyes during transport to hospital. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. If swallowed Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Take victim immediately to hospital. 4.2 Most important symptoms and effects, both acute and delayed Risks Harmful if swallowed. ÷.... May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes severe burns. Corrosive to the respiratory tract. 4.3 Indication of any immediate medical attention and special treatment needed Treatment : Treat symptomatically.

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



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|-------------|------------------------------------|-----------------------------------|-----|--|--|--|
|             | Unsuita<br>media                   | able extinguishing                | :   | High volume wate                       | er jet   |  |
| 5.2         | Special                            | hazards arising from              | the | e substance or mi                      | xture  |  |
|             | Specifi<br>fighting                | c hazards during fire-<br>I       | :   | Do not allow run-<br>courses.          | Do not allow run-off from fire fighting to enter drains or water courses.  |  |
|             |                                    |                                   |     | Do not allow run-o<br>courses.         | off from fire fighting to enter drains or water  |  |
|             | Hazardous combustion prod-<br>ucts |                                   | :   | Carbon dioxide (C<br>Carbon monoxide   |  |  |
|             |                                    |                                   |     | hydrogen chloride                      | 9  |  |
| 5.3         | Advice                             | for firefighters                  |     |  |  |  |
|             | •                                  | l protective equipment<br>ighters | :   | Wear self-contain essary.              | ed breathing apparatus for firefighting if nec-  |  |
|             | Furthe                             | <sup>-</sup> information          | :   | must not be disch<br>Fire residues and | ated 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**

| • • •                                | e equipment and emergency procedures<br>Use personal protective equipment.<br>Ensure adequate ventilation.   |
|--------------------------------------|--|
| 6.2 Environmental precautions        |  |
| Environmental precautions :          | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform<br>respective authorities. |
| 6.3 Methods and material for contain | inment and cleaning up   |
| Methods for cleaning up :            | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).   |
|                                      | Keep in suitable, closed containers for disposal.  |

### 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



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|-------------|-------------------------|--------------------------------------|-----|---|---|
|             | Advice on safe handling |                                      | :   | Do not smoke.<br>Provide sufficient<br>Dispose of rinse v<br>regulations.<br>Smoking, eating a<br>plication area.<br>Persons suscepti<br>allergies, chronic | apours/dust.  |
|             |                         | on protection against<br>d explosion | :   | Normal measures   | for preventive fire protection.   |
|             | Hygien                  | e measures                           | :   | General industria   | hygiene practice.   |
|             |                         |                                      |     |   | ot eat or drink. When using do not smoke.<br>re breaks and at the end of workday. |
| 7.2         | Conditi                 | ons for safe storage.                | inc | luding any incom  | patibilities  |

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

|     | Requirements for storage areas and containers | : | Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. |
|-----|---|---|--|
|     |   |   | Containers which are opened must be carefully resealed and kept upright to prevent leakage.  |
|     | Further information on stor-<br>age stability | : | Stable under recommended storage conditions.   |
| 7.3 | Specific end use(s)                           |   |  |

## 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<br>of exposure) | Control parameters    | Basis   |  |
|------------|--|----------------------------------|-----------------------|---------|--|
| glutaral   | 111-30-8   | TWA                              | 0.05 ppm<br>0.2 mg/m3 | GB EH40 |  |
|            | Further information: Capable of causing occupational asthma. |                                  |                       |         |  |



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|----------------|------------------------------|--|--|---------|--|--|
|                |                              | STEL   | 0.05 ppm<br>0.2 mg/m3  | GB EH40 |  |  |
|                | Furth                        | Further information: Capable of causing occupational asthma. |  |         |  |  |

#### 8.2 Exposure controls

#### **Engineering measures**

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Personal protective equipment

| Eye/face protection                                      | :  | Tightly fitting safety goggles<br>Wear face-shield and protective suit for abnormal processing<br>problems.   |
|--|----|---|
| Hand protection<br>Material<br>Directive<br>Wearing time | :: | Polychloroprene - CR<br>Protective gloves complying with EN 374.<br>< 60 min  |
| Material<br>Directive<br>Wearing time                    | :  | Nitrile rubber - NBR<br>Protective gloves complying with EN 374.<br>< 60 min  |
| Material<br>Directive<br>Wearing time                    | :  | Polyvinyl chloride - PVC<br>Protective gloves complying with EN 374.<br>< 60 min  |
| Remarks  | :  | After contamination with product change the gloves immedi-<br>ately and dispose of them according to relevant national and<br>local regulations<br>The suitability for a specific workplace should be discussed<br>with the producers of the protective gloves. |
| Skin and body protection                                 | :  | Impervious clothing   |
|  |    | Choose body protection according to the amount and concen-<br>tration of the dangerous substance at the work place.   |
| Respiratory protection                                   | :  | In case of insufficient ventilation, wear suitable respiratory equipment.   |
| Filter type  | :  | Combined particulates and organic vapour type (A-P)   |

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

### 9.1 Information on basic physical and chemical properties

Appearance : Emulsion



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|----------------|--|---|------------------------------------|--|
|                |  |   |                                    |  |
| Phy            | sical state                                  | : | liquid                             |  |
| Cold           | bur  | : | orange                             |  |
| Odo            | ur   | : | citrus                             |  |
| Odo            | ur Threshold                                 | : | No data available                  | 9  |
| Melt           | ing point/ range                             | : | No data available                  | 9  |
| Free           | ezing point                                  |   | -15 °C                             |  |
| Boili          | ng point/boiling range                       | : | No data available                  | 9  |
|                | er explosion limit / Upper<br>mability limit | : | No data available                  | 9  |
|                | er explosion limit / Lower<br>mability limit | : | No data available                  | 9  |
| Flas           | h point                                      | : |                                    | ion (EC) No. 440/2008, Annex, A.9                                  |
| Dec            | omposition temperature                       | : | No data available                  | 9  |
| pН             |  | : | 4.4<br>Concentration: 1            | %  |
|                | osity<br>/iscosity, dynamic                  | : | 32.9 mPa⋅s (20 °<br>Method: OECD 1 | °C)<br>Test Guideline 114  |
|                |  |   | 15.5 mPa⋅s (40 °<br>Method: OECD 1 | °C)<br>Fest Guideline 114  |
| ١              | /iscosity, kinematic                         | : | 35.2 mm2/s (20 °                   | °C)  |
|                | ıbility(ies)<br>Vater solubility             | : | No data available                  | 9  |
| S              | Solubility in other solvents                 | : | No data available                  | 9  |
|                | ition coefficient: n-<br>nol/water           | : | No data available                  | 9  |
| Vap            | our pressure                                 | : | No data available                  | 3  |
| Rela           | ative density                                | : |                                    | Fest Guideline 109   |



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|----------------|------------------------------|---|--|
| Density        |                              | : 0.992 g/cm3<br>Method: OE0              | (20 °C)<br>CD Test Guideline 109                                   |
| 9.2 Othe       | r information                |   |  |
| Explosives     |                              | : Not explosive<br>Method: EC<br>GLP: Yes |  |
| Oxic           | lizing properties            | : The substan                             | ce or mixture is not classified as oxidizing.                      |
|                |                              | Method: Reg<br>GLP: Yes                   | ulation (EC) No. 440/2008, Annex, A.21                             |
| Flan           | nmable solids                |   |  |
| E              | Burning number               | : No data avai                            | lable  |
| Self           | ignition                     | : 387 °C<br>Method: Reg<br>GLP: Yes       | ulation (EC) No. 440/2008, Annex, A.15                             |
| Meta           | al corrosion rate            | : Corrosive to                            | metals   |
| Eva            | poration rate                | : No data avai                            | lable  |
| Surf           | ace tension                  | : 29.4 mN/m, 2                            | 20.1 °C, OECD Test Guideline 115, GLP: Yes                         |

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

#### 10.1 Reactivity

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

#### 10.2 Chemical stability

Stable under normal conditions.

| 10.3 Possibility of hazardous reactions |   |  |  |  |
|---|---|--|--|--|
| Hazardous reactions                     | : Under normal conditions of storage and use, hazardous reac-<br>tions will not occur.                    |  |  |  |
| 10.4 Conditions to avoid                |   |  |  |  |
| Conditions to avoid                     | : Heat, flames and sparks.  |  |  |  |
| 10.5 Incompatible materials             |   |  |  |  |
| Materials to avoid                      | : Strong acids and strong bases<br>Strong oxidizing agents<br>Ammonia<br>Amines<br>Copper<br>Iron<br>Zinc |  |  |  |
| 10 / 32                                 |   |  |  |  |



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Aluminium

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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

### 11.1 Information on toxicological effects

| Acute toxicity        |  |
|-----------------------|--|
| Harmful if swallowed. |  |
| Product:              |  |

| Acute oral toxicity       | : | LD50 (Rat, female): > 300 - 2,000 mg/kg<br>Method: OECD Test Guideline 423<br>GLP: Yes<br>Remarks: Expert judgement                         |
|---------------------------|---|---|
| Acute inhalation toxicity | : | LC50 (Rat, male and female): > 5.02 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 436<br>GLP: Yes |

#### **Components:**

| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:Acute oral toxicity: LD50 (Rat): 398 mg/kg |   |   |  |  |
|--|---|---|--|--|
| Acute dermal toxicity  | : | LD50 (Rat): 3,412 mg/kg   |  |  |
| glutaral:  |   |   |  |  |
| Acute oral toxicity  | : | LD50 (Rat, male and female): 100 mg/kg<br>Method: OECD Test Guideline 401<br>GLP: Yes<br>Remarks: Active ingredient             |  |  |
| Acute inhalation toxicity  | : | LC50 (Rat, female): 0.28 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>GLP: No |  |  |
|  |   | LC50 (Rat, male): 0.35 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>GLP: No   |  |  |
| Acute dermal toxicity  | : | LD50 (Rabbit, male and female): > 2,000 mg/kg<br>Method: OECD Test Guideline 402  |  |  |



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|----------------------|------------------------------|---|
|                      |                              | GLP: Yes<br>Assessment: The substance or mixture has no acute dermal<br>toxicity  |
| hydro                | ocarbons:                    |   |
| Acute                | oral toxicity                | : LD50 (Rat, male and female): 7,050 mg/kg<br>Method: OECD Test Guideline 420<br>GLP: Yes   |
| Acute                | inhalation toxicity          | <ul> <li>LC50 (Rat, male and female): &gt; 4.688 mg/l<br/>Exposure time: 4 Months<br/>Test atmosphere: vapour<br/>Method: OECD Test Guideline 403<br/>GLP: Yes<br/>Remarks: Highest producible concentration.<br/>Dosage caused no mortality</li> </ul> |
| Acute                | dermal toxicity              | <ul> <li>LD50 (Rabbit, male and female): &gt; 5,000 mg/kg<br/>Method: OECD Test Guideline 402<br/>GLP: Yes<br/>Remarks: Extrapolation according to Regulation (EC) No.<br/>440/2008</li> </ul>  |
|                      | -mentha-1,8-diene:           | : LD50 (Rat): 4,400 mg/kg   |
|                      | corrosion/irritation         |   |
|                      | es severe burns.             |   |
| Prod                 | uct:                         |   |
| Speci                |                              | : Rabbit  |
| Metho                |                              | : OECD Test Guideline 404   |
| Resu<br>GLP          | it.                          | <ul><li>Corrosive after 3 minutes to 1 hour of exposure</li><li>Yes</li></ul>   |
| <u>Com</u>           | <u>oonents:</u>              |   |
| Quat                 | ernary ammonium c            | ompounds, benzyl-C12-16-alkyldimethyl, chlorides:   |
| Resu                 | lt                           | : Corrosive after 3 minutes to 1 hour of exposure   |
| gluta                | ral:                         |   |
| Speci                | es                           | : Rabbit  |
|                      | sure time                    | : 4 h   |
| Metho                |                              | : OECD Test Guideline 404   |
| Resu<br>GLP          | IL                           | : Causes burns.<br>: No information available.  |
|                      |                              |   |
| hvdro                | ocarbons:                    |   |
| <b>hydro</b><br>Resu | ocarbons:<br>It              | : Repeated exposure may cause skin dryness or cracking.   |



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### (R)-p-mentha-1,8-diene:

| Species | : Rabbit                  |
|---------|---------------------------|
| Method  | : OECD Test Guideline 404 |
| Result  | : No skin irritation      |

#### Serious eye damage/eye irritation

Causes serious eye damage.

### **Components:**

#### glutaral:

| Species | : | Rabbit                          |
|---------|---|---------------------------------|
| Method  | : | Draize Test                     |
| Result  | : | Irreversible effects on the eye |
| GLP     | : | No                              |
|         |   |                                 |

#### hydrocarbons:

Remarks

: No eye irritation

### (R)-p-mentha-1,8-diene:

| Species | : | Rabbit                  |
|---------|---|-------------------------|
| Method  | : | OECD Test Guideline 405 |
| Result  | : | No eye irritation       |

#### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### **Components:**

glutaral:

| Exposure routes | Inhalation   |
|-----------------|--|
| Species         | Human  |
| Result          | May cause sensitisation by inhalation.             |
| Test Type       | Open epicutaneous test                             |
| Exposure routes | Skin contact                                       |
| Species         | Guinea pig   |
| Result          | May cause sensitisation by skin contact.           |
| Test Type       | Local lymph node assay (LLNA)                      |
| Exposure routes | Skin contact                                       |
| Species         | Mouse  |
| Result          | The product is a skin sensitiser, sub-category 1A. |

#### hydrocarbons:



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|------------------------------|--|--|--|--|--|--|
| Expo<br>Spec<br>Meth<br>Resu | od   |  |  |  |  |  |
|                              | od   | : Dermal<br>: Mouse<br>: OECD Test Gu<br>: May cause sen | ideline 429<br>sitisation by skin contact.   |  |  |  |
|                              | n cell mutagenicity<br>classified due to lack of | data.  |  |  |  |  |
| Com                          | ponents:   |  |  |  |  |  |
| <b>glut</b> a<br>Geno        | aral:<br>otoxicity in vitro                      | Metabolic activ  | almonella typhimurium<br>ation: with and without metabolic activation<br>• Test Guideline 471  |  |  |  |
|                              |  | Test system: C<br>Metabolic activ                        | omosome aberration test in vitro<br>hinese hamster fibroblasts<br>ation: with and without metabolic activation<br>Test Guideline 473       |  |  |  |
|                              |  | Test system: C<br>Metabolic activ                        | itro mammalian cell gene mutation test<br>hinese hamster ovary cells<br>ation: with and without metabolic activation<br>Test Guideline 476 |  |  |  |
| Geno                         | otoxicity in vivo                                | Species: Mous<br>Cell type: Bone<br>Application Rot      | ute: Intraperitoneal injection<br>Test Guideline 474   |  |  |  |
|                              |  | Species: Rat (r<br>Cell type: Liver<br>Application Rot   | cells<br>ute: Oral<br>Test Guideline 486   |  |  |  |



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|--------------|---|-------|---|--|
|              |   |       |   | ex-linked recessive lethal (SLRL) test.<br>ila melanogaster (vinegar fly) (male) |
| ł            | ydrocarbons:  |       |   |  |
|              | Genotoxicity in vitro                                     | :     | Test system: Man<br>Metabolic activation<br>Method: OECD To<br>Result: negative<br>GLP: Yes | on: with and without metabolic activation  |
|              |   |       | Test system: Bac<br>Metabolic activation<br>Method: OECD To<br>Result: negative<br>GLP: Yes | on: with and without metabolic activation  |
|              |   |       | Test system: Man<br>Metabolic activation<br>Method: OECD To<br>Result: negative<br>GLP: Yes | on: with and without metabolic activation  |
|              |   |       | Test system: Man<br>Metabolic activation<br>Method: OECD To<br>Result: negative<br>GLP: Yes | on: with and without metabolic activation  |
| (            | Genotoxicity in vivo                                      | :     | Species: Mamma<br>Application Route<br>Method: OECD To<br>Result: negative<br>GLP: Yes      | : Inhalation   |
|              |   |       | Species: Mamma<br>Application Route<br>Method: OECD To<br>Result: negative<br>GLP: Yes      | : Oral   |
|              | <b>Carcinogenicity</b><br>Not classified due to lack of d | lata. |   |  |
| <u>(</u>     | Components:   |       |   |  |
| ç            | glutaral:   |       |   |  |
|              | Species<br>Application Route                              | :     | Rat, male and fen<br>Oral   | nale   |
| E            | Exposure time   | :     | 2 Years   |  |
| -            | Dose<br>NOAEL   | :     | 100 - 500 - 2000  <br>100 ppm   | parts per million  |
|              |   |       | 15/32   |  |



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|----------------|---|--|--|--|
|                | Method<br>Result<br>GLP                       |  | est Guideline 451  |  |
| -              | oductive toxicity<br>lassified due to lack of | data.  |  |  |
| Com            | ponents:                                      |  |  |  |
| gluta          | ral:  |  |  |  |
| Effec          | ts on fertility                               | Species<br>Applicat<br>Dose: 10<br>General<br>Fertility:<br>Early Er<br>Method:          | be: Two-generation study<br>Rat, male and female<br>ion Route: Oral<br>00 - 500 - 2000 parts per million<br>Toxicity - Parent: NOAEL: 500 p<br>NOAEL: 2,000 parts per million<br>nbryonic Development: NOAEL:<br>OECD Test Guideline 416<br>Animal testing did not show any e                        | 500 ppm                                      |
| Effec<br>ment  | ts on foetal develop-                         | Species<br>Applicat<br>Dose: 50<br>General<br>Teratogo<br>Embryo-<br>Method:             | be: Pre-natal<br>: Rat, female<br>ion Route: Oral<br>D - 250 - 750 parts per million<br>Toxicity Maternal: NOEL: 50 ppr<br>enicity: NOAEL: 750 ppm<br>foetal toxicity: NOAEL: 750 ppm<br>OECD Test Guideline 414<br>Did not show teratogenic effects   |  |
|                |   | Species<br>Applicat<br>Dose: 5<br>General<br>Teratogo<br>Embryo-<br>Method:<br>Result: I | be: Pre-natal<br>: Rabbit, female<br>ion Route: Oral<br>- 15 - 45 milligram per kilogram<br>Toxicity Maternal: NOAEL: 15 m<br>enicity: NOAEL: 45 mg/kg body v<br>foetal toxicity: NOAEL: 15 mg/kg<br>OECD Test Guideline 414<br>Embryotoxic effects and adverse<br>rere detected only at high matern | veight<br>body weight<br>effects on the off- |
| hydr           | ocarbons:                                     |  |  |  |
| -              | ts on fertility                               | Applicat<br>Dose: ><br>Duration<br>Frequen<br>Symptor                                    | : Rat, male and female<br>ion Route: Inhalation<br>= 1500 parts per million<br>of Single Treatment: 17 weeks<br>cy of Treatment: 5 days/week<br>ms: No observed adverse effect o<br>OECD Test Guideline 416  | concentration                                |
|                | - / - /                                       |  | 16 / 32  |  |
| Drint Data     | · 21 01 2025                                  |  |  | A company                                    |



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|----------------|------------------------------|---|--------------------------------|--|--|
|                |                              |   | esult: No effe<br>ent were del | ects on fertility and early embryonic develop-<br>tected.                |  |
|                |                              | Ap<br>Do<br>Du<br>Sy  | iration of Sii<br>mptoms: N    |  |  |
|                |                              | Species: Rat, female<br>Application Route: Oral<br>Dose: > 450 milligram per kilogram<br>Duration of Single Treatment: 21 d<br>Symptoms: NOAEL, Developmental Toxicity<br>Method: OECD Test Guideline 414 |                                |  |  |
|                | Γ - single exposure          |   |                                |  |  |
|                | d on available data, th      | ne classific  | ation criteria                 | a are not met.   |  |
| <u>Prod</u>    |                              |   |                                |  |  |
| Asse           | ssment                       |   |                                | e or mixture is not classified as specific target<br>a, single exposure. |  |
| Com            | ponents:                     |   |                                |  |  |
| gluta          | ral:                         |   |                                |  |  |
| Asse           | ssment                       | : Ma  | ay cause res                   | spiratory irritation.  |  |
| hydro          | ocarbons:                    |   |                                |  |  |
|                | et Organs<br>ssment          |   | rcotic effect<br>ay cause dro  | ts<br>owsiness or dizziness.   |  |
|                | F - repeated exposur         |   |                                |  |  |
|                | lassified due to lack o      | f data.   |                                |  |  |
| Repe           | ated dose toxicity           |   |                                |  |  |
| <u>Com</u>     | ponents:                     |   |                                |  |  |
| gluta          | ral:                         |   |                                |  |  |
| Spec           |                              |   | it, male and                   |  |  |
| NOAI<br>LOAE   |                              |   | 0 parts per<br>)00 ppm         | million  |  |
| -              | cation Route                 | : Or  |                                |  |  |
| Expo           | sure time                    |   | Days                           |  |  |
| Numl<br>Dose   | per of exposures             |   | aily<br>0 - 500 - 20           | 00 parts per million   |  |
| Meth           |                              |   |                                | uideline 408   |  |
| GLP            |                              |   | : Yes                          |  |  |
| Rema           | arks                         | : Su  | bchronic to                    | хісіту   |  |
|                |                              |   |                                |  |  |



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|----------------------------------|---|--|--|
| Expo                             | EL<br>EL<br>cation Route<br>sure time<br>per of exposures<br>od         | <ul> <li>Rat, male and</li> <li>500 parts per</li> <li>2000 ppm</li> <li>Oral</li> <li>12 Months</li> <li>daily</li> <li>100 - 500 - 20</li> <li>OECD Test Gi</li> <li>Yes</li> <li>Chronic toxicit</li> </ul> | million<br>00 parts per million<br>uideline 452                        |
| Expo                             | EL<br>cation Route<br>sure time<br>oer of exposures<br>od               | <ul> <li>Dog, male and</li> <li>500 parts per</li> <li>Oral</li> <li>12 Months</li> <li>daily</li> <li>20 - 100 - 500</li> <li>OECD Test G</li> <li>Yes</li> <li>Chronic toxicit</li> </ul>                    | million<br>parts per million<br>uideline 452                           |
| Test a<br>Expo                   | EC<br>cation Route<br>atmosphere<br>sure time<br>per of exposures<br>od |  | r, 5 days a week<br>- 0,25 - 0,5 - 1 parts per million<br>uideline 413 |
| Speci<br>NOAI<br>Applic<br>Expos | EL<br>cation Route<br>sure time<br>oer of exposures<br>od               | <ul> <li>Rat, male and</li> <li>300 mg/kg</li> <li>Oral</li> <li>13 weeks</li> <li>7 days/week</li> <li>300 mg/kg</li> <li>OECD Test G</li> <li>Yes</li> <li>Subchronic to:</li> </ul>                         | uideline 408   |
| Test a<br>Expo                   | cation Route<br>atmosphere<br>sure time<br>per of exposures<br>od       | <ul> <li>Rat, male and</li> <li>Inhalation</li> <li>vapour</li> <li>13 weeks</li> <li>5 days/week</li> <li>&gt; 0,38 mg/l</li> <li>OECD Test G</li> <li>Subchronic to:</li> </ul>                              | uideline 413   |



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## **MEFISTO SHOCK**

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#### Aspiration toxicity

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

#### Product:

No aspiration toxicity classification

### **Components:**

### hydrocarbons:

May be fatal if swallowed and enters airways.

### **Further information**

#### Product:

Remarks

: No data available

### **SECTION 12: Ecological information**

### 12.1 Toxicity

#### **Components:**

#### Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:

| Toxicity to fish                                    | - | LC50 : 0.515 mg/l<br>Exposure time: 96 h   |  |
|---|---|--|--|
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 : 0.016 mg/l<br>Exposure time: 48 h   |  |
| Toxicity to algae/aquatic plants                    | : | NOEC (Pseudokirchneriella subcapitata (microalgae)): 0.009<br>mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 201   |  |
| M-Factor (Acute aquatic tox-<br>icity)              | : | 10   |  |
| M-Factor (Chronic aquatic toxicity)                 | : | 1  |  |
| glutaral:   |   |  |  |
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Analytical monitoring: No<br>Method: OECD Test Guideline 203<br>GLP: No<br>Remarks: Fresh water<br>nominal concentration |  |
|   |   | LC50 (Lepomis macrochirus (Bluegill sunfish)): 13 mg/l   |  |
| 19 / 32   |   |  |  |



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|-------------|--|--|--|
|             |  | Exposure time:<br>Test Type: stati<br>Analytical monit<br>Method: OECD<br>GLP: No<br>Remarks: Fresh<br>nominal concen                                      | c test<br>toring: No<br>Test Guideline 203<br>n water                          |
|             |  | LC50 (Cyprinod<br>Exposure time:<br>Test Type: stati<br>Analytical monit<br>GLP: No<br>Remarks: salt w<br>nominal concer                                   | c test<br>toring: No<br>vater  |
|             |  | LC50 (Cyprinod<br>Exposure time:<br>Test Type: flow<br>Analytical monit<br>Method: OPPTS<br>GLP: Yes<br>Remarks: salt w                                    | -through test<br>toring: Yes<br>S 850.1075                                     |
|             | Toxicity to daphnia and other<br>aquatic invertebrates | End point: Imm<br>Exposure time:<br>Test Type: stati<br>Analytical monit   | 48 h<br>c test<br>toring: No<br>ation (EC) No. 440/2008, Annex, C.2<br>n water |
|             |  | EC50 (Daphnia<br>End point: Imme<br>Exposure time:<br>Test Type: stati<br>Analytical monit<br>Method: EPA-6<br>GLP: No<br>Remarks: Frest<br>nominal concer | 48 h<br>c test<br>toring: No<br>60/3-75-009<br>n water                         |
|             |  | EC50 (Acartia to<br>Exposure time:<br>Test Type: stati<br>Analytical monit<br>Method: ISO 14<br>GLP: Yes<br>Remarks: salt w<br>nominal concer              | 48 h<br>c test<br>toring: Yes<br>669 and PARCOM method<br>vater                |
|             | Toxicity to algae/aquatic                              | : ErC50 (Desmo   | desmus subspicatus (green algae)): 0.6 mg/l                                    |



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|------------------|--|--|---|
| plants           |  | End point: Growt<br>Exposure time: 7<br>Test Type: static<br>Analytical monito<br>Method: Regulati<br>GLP: Yes<br>Remarks: Fresh<br>nominal concenti | 2 h<br>test<br>ring: Yes<br>on (EC) No. 440/2008, Annex, C.3<br>water                                       |
|                  |  | End point: Growt<br>Exposure time: 7<br>Test Type: static<br>Analytical monito   | 2 h<br>test<br>ring: Yes<br>on (EC) No. 440/2008, Annex, C.3<br>water                                       |
| M-Fac<br>icity)  | ctor (Acute aquatic tox-                                     | : 1  |   |
| Toxici           | ty to microorganisms   | EC20 (activated<br>End point: Respire<br>Exposure time: 3<br>Test Type: static<br>Analytical monito<br>Method: OECD T<br>GLP: Yes                    | ration inhibition<br>0 min<br>test  |
|                  |  | EC50 (activated =<br>End point: Respir<br>Exposure time: 3<br>Test Type: static<br>Analytical monito<br>Method: OECD T<br>GLP: Yes                   | ration inhibition<br>0 min<br>test  |
| Toxici<br>icity) | ty to fish (Chronic tox-                                     | Test Type: flow-t<br>Analytical monito   | 7 d<br>ynchus mykiss (rainbow trout)<br>hrough test<br>ring: Yes<br><sup>r</sup> est Guideline 210<br>water |
|                  | ty to daphnia and other<br>ic invertebrates (Chron-<br>city) | : NOEC: 5 mg/l<br>End point: Repro<br>Exposure time: 2<br>Species: Daphnia<br>Test Type: semi-<br>21 / 32  | 1 d<br>a magna (Water flea)   |



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|-----------------|--|-------------------------------------|--|
|                 |  | Method: 0<br>GLP: Yes<br>Remarks:   | monitoring: Yes<br>DECD Test Guideline 221<br>Fresh water<br>oncentration                              |
| Toxic<br>ganis  | ity to soil dwelling or-<br>ms               | End point<br>Species:               | time: 14 d   |
| Plant           | toxicity                                     | End point<br>Test perio<br>Species: | l,000 mg/kg<br>: Growth inhibition<br>od: 19 d<br>Avena sativa (oats)<br>DECD Test Guideline 208       |
|                 |  | End point<br>Test perio<br>Species: | I,000 mg/kg<br>: Growth inhibition<br>od: 19 d<br>Vicia sativa<br>DECD Test Guideline 208              |
| Toxic<br>isms   | ity to terrestrial organ-                    | End point                           | 6 mg/kg<br>time: 14 d<br>: mortality<br>Anas platyrhynchos (Mallard duck)                              |
|                 |  | Exposure<br>End point               | 2,500 ppm<br>time: 5 d<br>: mortality<br>Anas platyrhynchos (Mallard duck)                             |
| hvdro           | ocarbons:                                    |                                     |  |
| -               | ity to fish                                  | Exposure<br>Method: (<br>GLP: Yes   | corhynchus mykiss (rainbow trout)): 2 - 5 mg/l<br>time: 96 h<br>DECD Test Guideline 203<br>Fresh water |
|                 | ity to daphnia and other<br>ic invertebrates | Exposure<br>Method: (<br>GLP: Yes   | phnia magna (Water flea)): 3 - 10 mg/l<br>time: 48 h<br>DECD Test Guideline 202<br>Fresh water         |
| Toxic<br>plants | ity to algae/aquatic<br>s                    | mg/l<br>Exposure                    | seudokirchneriella subcapitata (microalgae)): 1 - 3<br>time: 48 h                                      |



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|---------------|---------------------|---|---|--|--|
|               |                     |   |   | Method: OECD To<br>GLP: Yes<br>Remarks: Fresh v  |  |
|               |                     |   |   | NOEC (Pseudokir<br>Exposure time: 48<br>Method: OECD To<br>GLP: Yes<br>Remarks: Fresh v                  | est Guideline 201  |
|               | Γoxicity<br>city)   | to fish (Chronic tox-                               | : | NOEC: 0.441 mg/<br>Exposure time: 28<br>Species: Oncorhy<br>Method: QSAR<br>GLP: Yes<br>Remarks: Fresh w | 3 Days<br>nchus mykiss (rainbow trout)                             |
| a             |                     | to daphnia and other<br>invertebrates (Chron-<br>y) | : | NOEC: 0.771 mg/<br>Exposure time: 21<br>Species: Daphnia<br>Method: QSAR<br>GLP: Yes<br>Remarks: Fresh w | l Days<br>magna (Water flea)                                       |
| c             | deltame             | ethrin (ISO):                                       |   |  |  |
| Ν             |                     | or (Acute aquatic tox-                              | : | 1,000,000  |  |
|               | И-Facto<br>oxicity) | or (Chronic aquatic                                 | : | 1,000,000  |  |
| (             | R)-p-m              | entha-1,8-diene:                                    |   |  |  |
|               | Foxicity            |   | : | LC50 (Pimephale:<br>Exposure time: 96<br>Method: OECD To<br>Remarks: Fresh w                             | est Guideline 203  |
|               |                     | to daphnia and other<br>invertebrates               | : | EC50 (Daphnia m<br>Exposure time: 48<br>Method: OECD To<br>Remarks: Fresh w                              | est Guideline 202  |
|               | Foxicity<br>plants  | to algae/aquatic                                    | : | EC50 (Pseudokiro<br>mg/l<br>Exposure time: 72<br>Method: OECD To<br>Remarks: Fresh v                     | est Guideline 201  |
|               |                     |   |   | EC10 (Pseudokiro<br>mg/l<br>Exposure time: 72<br>Method: OECD To   |  |



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|-------------|--------------------|--|-----------|--|--|
|             |                    |  |           | Remarks: Fresh v   | vater  |
|             | M-Facto<br>icity)  | or (Acute aquatic tox-                                 | :         | 1  |  |
|             | Toxicity<br>icity) | to fish (Chronic tox-                                  | :         | NOEC: 0.059 mg/<br>Exposure time: 8<br>Species: Pimepha<br>Method: OECD To<br>Remarks: Fresh v   | d<br>ales promelas (fathead minnow)<br>est Guideline 212           |
|             |                    | r to daphnia and other<br>invertebrates (Chron-<br>ty) | :         | NOEC: 0.08 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Method: OECD Test Guideline 211<br>Remarks: Fresh water |  |
| 12.2        | Persist            | tence and degradabil                                   | ity       |  |  |
|             | Produc<br>Biodegr  | : <u>t:</u><br>radability                              | :         | Result: Not readil<br>Biodegradation: 2<br>Exposure time: 28<br>Method: OECD To<br>GLP: Yes<br>Result: Inherently<br>Biodegradation: 8   | 21 %<br>3 d<br>est Guideline 301D<br>9 biodegradable.              |
|             |                    |  |           | Exposure time: 28<br>Method: OECD To<br>GLP: Yes   | 3 d<br>est Guideline 302B  |
|             | <u>Compo</u>       | onents:  |           |  |  |
|             |                    | <b>nary ammonium com</b><br>radability                 | ipo:<br>: | Result: Readily bi<br>Biodegradation: 3<br>Exposure time: 28   | > 70 %   |
|             | glutara            | I:   |           |  |  |
|             | Biodegr            | radability   | :         | Result: rapidly bid<br>Biodegradation: 9<br>Exposure time: 28<br>Method: OECD To<br>GLP: Yes   | 90 - 100 %   |
|             |                    |  |           | Biodegradation: 9<br>Exposure time: 70   |  |
|             |                    |  |           | 24 / 32  |  |

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|--|---|--|--|
|  |   | Exposure tir<br>Lag phase:<br>Beginning o          | egradable<br>ion: 97 %<br>Dissolved organic carbon (DOC)<br>ne: 73 d                           |
| Stabi  | lity in water   | : Remarks: H                                       | ydrolyses slowly.  |
| Photo  | Photodegradation :                                    |  | DH radicals<br>on: 500,000 1/cm3<br>nt: 4.69E-10 cm3/s<br>tructure-activity relationship (SAR) |
| hydro  | ocarbons:   |  |  |
| Biode  | egradability  | Biodegradat<br>Exposure tir                        |  |
| (R)-p  | -mentha-1,8-diene:                                    |  |  |
| Biode  | egradability  | Biodegradat<br>Exposure tir                        |  |
| 2.3 Bioa                                     | ccumulative potentia                                  | al   |  |
| Com  | ponents:  |  |  |
| Partit                                       | ernary ammonium c<br>ion coefficient: n-<br>iol/water | ompounds, benzyl<br>: log Pow: 0.5                 | -C12-16-alkyldimethyl, chlorides:  |
| gluta  | ral:  |  |  |
| -  | ccumulation   |  | ue to the distribution coefficient n-octanol/water<br>n in organisms is not expected.          |
| Partition coefficient: n- :<br>octanol/water |   | : log Pow: -0.<br>pH: 7<br>Method: Reg<br>GLP: Yes | 36 (23 °C)<br>gulation (EC) No. 440/2008, Annex, A.8   |
| (R)-p  | -mentha-1,8-diene:                                    |  |  |
| Partit                                       | ion coefficient: n-<br>ol/water                       | : log Pow: 4.3<br>Method: OE                       | 8<br>CD Test Guideline 117   |
|  |   |  | 100  |



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### 12.4 Mobility in soil

### Components:

| al | lut: | ara | ٦ŀ |  |
|----|------|-----|----|--|

| glutaral:<br>Distribution among environ-<br>mental compartments | : | log Koc: 2.5  |
|---|---|---|
| Stability in soil   | : | Test Type: aerobic degradation<br>Soil temperature: 25 °C<br>Radio label: Yes<br>Method: measured<br>GLP: Yes<br>Remarks: Not expected to adsorb on soil. |

#### 12.5 Results of PBT and vPvB assessment

| Product | t: |
|---------|----|
|         |    |

| 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 Other adverse effects

#### Product:

| Endocrine disrupting poten-<br>tial    | : | This substance/mixture does not contain components consid-<br>ered to have endocrine disrupting properties for environment<br>according to UK REACH Article 57(f). |
|--|---|--|
| Additional ecological infor-<br>mation | : | An environmental hazard cannot be excluded in the event of<br>unprofessional handling or disposal.<br>Very toxic to aquatic life with long lasting effects.        |

### **SECTION 13: Disposal considerations**

| 13.1 Waste treatment methods | _ | De net contensionte nonde sustanues en ditabas suith aborei   |
|------------------------------|---|---|
| Product                      | - | Do not contaminate ponds, waterways or ditches with chemi-<br>cal or used container.  |
|                              |   | The product should not be allowed to enter drains, water courses or the soil.<br>Send to a licensed waste management company. |
| Contaminated packaging       | : | Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers.                                 |



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### **SECTION 14: Transport information**

| 14.1 UN number   |                 |   |
|--|-----------------|---|
| ADN  | :               | UN 3265   |
| ADR  | :               | UN 3265   |
| RID  | :               | UN 3265   |
| IMDG   | :               | UN 3265   |
| ΙΑΤΑ   | :               | UN 3265   |
| 14.2 UN proper shipping nam  | е               |   |
| ADN  | :               | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.<br>(QUARTERNARY AMMONIUM COMPOUNDS, BENZYL C12<br>- C16 ALKYLDIMETHYL, CHLORIDES, GLUTARALDEHYDE) |
| ADR  | :               | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.<br>(QUARTERNARY AMMONIUM COMPOUNDS, BENZYL C12<br>- C16 ALKYLDIMETHYL, CHLORIDES, GLUTARALDEHYDE) |
| RID  | :               | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.<br>(QUARTERNARY AMMONIUM COMPOUNDS, BENZYL C12<br>- C16 ALKYLDIMETHYL, CHLORIDES, GLUTARALDEHYDE) |
| IMDG   | :               | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.<br>(QUARTERNARY AMMONIUM COMPOUNDS, BENZYL C12<br>- C16 ALKYLDIMETHYL, CHLORIDES, GLUTARALDEHYDE) |
| ΙΑΤΑ   | :               | Corrosive liquid, acidic, organic, n.o.s.<br>(QUARTERNARY AMMONIUM COMPOUNDS, BENZYL C12<br>- C16 ALKYLDIMETHYL, CHLORIDES, GLUTARALDEHYDE) |
| 14.3 Transport hazard class(e  | s)              |   |
| ADN  | :               | 8   |
| ADR  | :               | 8   |
| RID  | :               | 8   |
| IMDG   | :               | 8   |
| ΙΑΤΑ   | :               | 8   |
| 14.4 Packing group   |                 |   |
| <b>ADN</b><br>Packing group<br>Classification Code<br>Hazard Identification Numb<br>Labels | )<br>Der :<br>: |   |





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|--|---|---|---|--|
|  | l group<br>cation Code<br>Identification Number | : | II<br>C3<br>80<br>8   |  |
| Tunnel   | restriction code                                | : | (E)   |  |
|  | l group<br>cation Code<br>Identification Number | : | II<br>C3<br>80<br>8   |  |
| <b>IMDG</b><br>Packing<br>Labels                     | ı group   | : |   |  |
| EmS Co   | ode   | : | F-A, S-B  |  |
| IATA (C<br>Packing<br>aircraft)<br>Packing<br>Labels | instruction (cargo                              | : | 855 : 30.00 L<br>II<br>8<br>CORDUTE<br>8  |  |
|  |   | : | 851 : 1.00 L<br>II<br>8<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>() |  |
| 14.5 Enviror   | nmental hazards                                 |   |   |  |

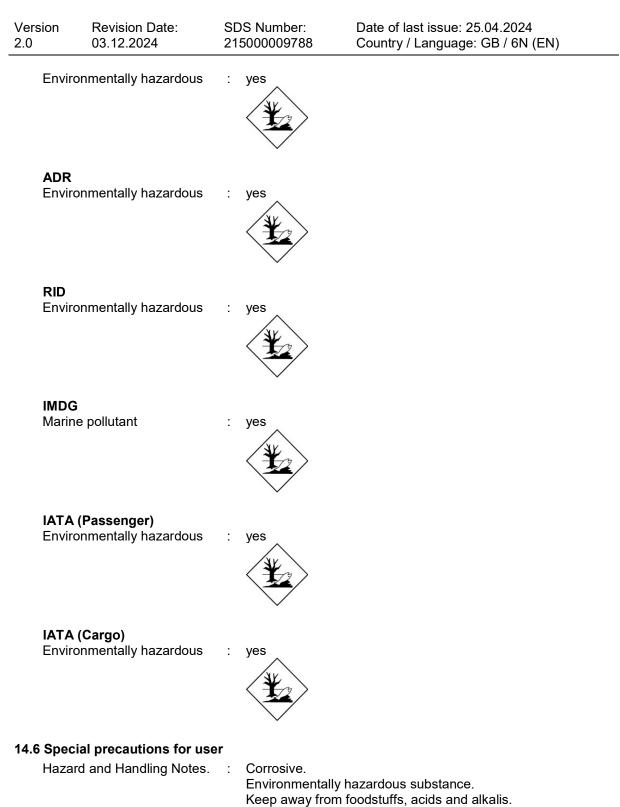
### ADN



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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.



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#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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

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

Relevant EU provisions transposed through retained EU law

| UK REACH List of restrictions (Ann  | ex 17)               | :  | Conditions of restric<br>lowing entries shou<br>Number on list 3 |                     |
|---|----------------------|----|--|---------------------|
| UK REACH Candidate list of substa<br>concern (SVHC) for Authorisation   | inces of very high   | :  | Not applicable   |                     |
| The Persistent Organic Pollutants R<br>Regulation (EU) 2019/1021 as ame<br>ain)   |                      | :  | Not applicable   |                     |
| International Chemical Weapons Co<br>Schedules of Toxic Chemicals and   |                      | :  | Not applicable   |                     |
| Regulation (EC) on substances that<br>layer   | deplete the ozone    | :  | Not applicable   |                     |
| Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors. |                      |    | Neither banned nor   | restricted          |
| Council Regulation (EC) No 273/20<br>sors   | 04 on drug precur-   | :  | Not applicable   |                     |
| UK REACH List of substances subject to authorisation (Annex XIV)  |                      |    | Not applicable   |                     |
| GB Export and import of hazardous<br>Informed Consent (PIC) Regulation  | chemicals - Prior    | :  | Not applicable   |                     |
| Control of Major Accident Hazards I   | Regulations 2015 (CO | MA | ,  | Oursetite 0         |
| E1 ENVIRONMENTAL<br>HAZARDS   |                      |    | Quantity 1<br>100 t  | Quantity 2<br>200 t |

### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.



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#### 15.2 Chemical safety assessment

Not applicable

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

#### Full text of H-Statements

| H226<br>H301<br>H302<br>H304<br>H314<br>H315<br>H317<br>H318<br>H330 |    | Flammable liquid and vapour.<br>Toxic if swallowed.<br>Harmful if swallowed.<br>May be fatal if swallowed and enters airways.<br>Causes severe skin burns and eye damage.<br>Causes skin irritation.<br>May cause an allergic skin reaction.<br>Causes serious eye damage.<br>Fatal if inhaled. |
|--|----|---|
| H331   | :  | Toxic if inhaled.   |
| H334   | :  | May cause allergy or asthma symptoms or breathing difficul-<br>ties if inhaled.   |
| H335   | :  | May cause respiratory irritation.   |
| H336   | :  | May cause drowsiness or dizziness.  |
| H400   | :  | Very toxic to aquatic life.   |
| H410   | :  | Very toxic to aquatic life with long lasting effects.   |
| H411   | :  | Toxic to aquatic life with long lasting effects.  |
| Full text of other abbreviatio                                       | ns |   |
| Acute Tox.   | :  | Acute toxicity  |
| Aquatic Acute  | :  | Short-term (acute) aquatic hazard   |
| Aquatic Chronic  | :  | Long-term (chronic) aquatic hazard  |
| Asp. Tox.  | :  | Aspiration hazard   |
| Eye Dam.   | :  | Serious eye damage  |
| Flam. Liq.   | •  | Flammable liquids   |
| Resp. Sens.  |    | Respiratory sensitisation   |
| Skin Corr.   |    | Skin corrosion  |
| Skin Irrit.  | ÷  | Skin irritation   |
| Skin Sens.   | ÷  | Skin sensitisation  |
| STOT SE<br>GB EH40   | :  | Specific target organ toxicity - single exposure<br>UK. EH40 WEL - Workplace Exposure Limits  |
| GB EH40<br>GB EH40 / TWA   | :  | Long-term exposure limit (8-hour TWA reference period)  |
|  | :  | Short term exposure limit (6-nour TWA reference period)   |

GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

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;



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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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

# Further information

| Classification of the                         | mixture: | Classification procedure:           |  |  |
|---|----------|-------------------------------------|--|--|
| Met. Corr. 1                                  | H290     | Based on product data or assessment |  |  |
| Met. Corr. 1<br>Acute Tox. 4<br>Skin Corr. 1B | H302     | Based on product data or assessment |  |  |
| Skin Corr. 1B                                 | H314     | Based on product data or assessment |  |  |
| Eye Dam. 1<br>Resp. Sens. 1                   | H318     | Based on product data or assessment |  |  |
| Resp. Sens. 1                                 | H334     | Calculation method                  |  |  |
| Skin Sens. 1                                  | H317     | Calculation method                  |  |  |
| Aquatic Acute 1                               | H400     | Calculation method                  |  |  |
| Aquatic Acute 1<br>Aquatic Chronic 1          | H410     | Calculation method                  |  |  |

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.

