

## Wasmiddel 1,2,3-Schoon Black

Version number: 1.0

Date of compilation: 2025-08-12

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

#### 1.1 Product identifier

|                             |                              |
|-----------------------------|------------------------------|
| Trade name                  | Wasmiddel 1,2,3-Schoon Black |
| Registration number (REACH) | not relevant (mixture)       |
| Product number              | TP2067_SCH                   |

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

|                          |                                                 |
|--------------------------|-------------------------------------------------|
| Relevant identified uses | Detergent<br>Laundry detergent<br>Consumer uses |
|--------------------------|-------------------------------------------------|

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

##### Supplier

Vipack B.V.  
Minckelersstraat 7  
6372 PP Landgraaf  
Netherlands  
Telephone: +31 (0)45 7501 220  
Telefax: +31 (0)45 5 32 73 56  
e-mail: [info@vipack.nl](mailto:info@vipack.nl)  
Website: [www.vipack.nl](http://www.vipack.nl)

##### Distributor

123schoon.nl  
Koningsbeltweg 52  
1329AK Almere  
Netherlands  
Telephone: +31 (0) 294-787125  
e-mail: [Info@123schoon.nl](mailto:Info@123schoon.nl)  
e-mail (competent person)

[info@vipack.nl](mailto:info@vipack.nl)

#### 1.4 Emergency telephone number

|                               |                      |
|-------------------------------|----------------------|
| Emergency information service | +31 848340120 (24/7) |
|-------------------------------|----------------------|

| Poison centre |                                            |                                                                               |
|---------------|--------------------------------------------|-------------------------------------------------------------------------------|
| Country       | Name                                       | Telephone                                                                     |
| Ireland       | National Poisons Information Centre (NPIC) | Consumer: 01 809 2166 (8am-10pm)   Healthcare Professional: 1 809 2566 (24/7) |

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

| Section | Hazard class                      | Category | Hazard class and category | Hazard statement |
|---------|-----------------------------------|----------|---------------------------|------------------|
| 3.3     | serious eye damage/eye irritation | 1        | Eye Dam. 1                | H318             |

For full text of H-phrases: see SECTION 16

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- signal word      Danger

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### - pictograms

GHS05



### - hazard statements

H318

Causes serious eye damage.

### - precautionary statements

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P280

Wear eye protection.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER/doctor.

### - hazardous ingredients for labelling

Contains: C12-14 PARETH-7; SODIUM DODECYLBENZENESULFONATE; SODIUM LAURETH SULFATE.

## 2.3 Other hazards

### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0,1\%$ .

### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture).

### 3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

REACH information: In order to use the most updated information we have incorporated data available via the public REACH dossier into the safety datasheet. Ingredients in the mixture do not fulfill the tonnage requirements for REACH registration as they are produced and/or imported <1 tonne per year.

| Name of substance                                        | Identifier                                                                                   | Wt%       | Classification acc. to GHS                                                                   | Pictograms                                                                                                                                                                  | Notes |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Alcohols, C12-14 (even numbered), ethoxylated (7-EO)     | EC No<br>931-837-8                                                                           | 5 – < 10  | Acute Tox. 4 / H302<br>Eye Dam. 1 / H318                                                     |   |       |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | CAS No<br>68891-38-3<br><br>EC No<br>500-234-8<br><br>REACH Reg. No<br>01-2119488639-16-xxxx | 2.5 – < 5 | Skin Irrit. 2 / H315<br>Eye Dam. 1 / H318                                                    |                                                                                        |       |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | CAS No<br>68411-30-3<br><br>EC No<br>270-115-0<br><br>REACH Reg. No<br>01-2119489428-22-xxxx | 2.5 – < 5 | Acute Tox. 4 / H302<br>Skin Irrit. 2 / H315<br>Eye Dam. 1 / H318<br>Aquatic Chronic 3 / H412 |   |       |

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| Name of substance                     | Identifier                                                                    | Wt% | Classification acc. to GHS                                                                                                                                                                                                  | Pictograms                                                                          | Notes  |
|---------------------------------------|-------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|
| Pyridine-2-thiol 1-oxide, sodium salt | CAS No<br>3811-73-2<br><br>EC No<br>223-296-5<br><br>Index No<br>613-344-00-7 | < 1 | Acute Tox. 4 / H302<br>Acute Tox. 3 / H311<br>Acute Tox. 3 / H331<br>Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>Skin Sens. 1 / H317<br>STOT RE 1 / H372<br>Aquatic Acute 1 / H400<br>Aquatic Chronic 2 / H411<br>EUH070 |  | GHS-HC |

### Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

| Name of substance                                        | Identifier                                     | Specific Conc. Limits                                            | M-Factors              | ATE                                   | Exposure route                             |
|----------------------------------------------------------|------------------------------------------------|------------------------------------------------------------------|------------------------|---------------------------------------|--------------------------------------------|
| Alcohols, C12-14 (even numbered), ethoxylated (7-EO)     | EC No<br>931-837-8                             | -                                                                | -                      | 500 mg/kg                             | oral                                       |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | CAS No<br>68891-38-3<br><br>EC No<br>500-234-8 | Eye Dam. 1; H318: C ≥ 10 %<br>Eye Irrit. 2; H319: 5 % ≤ C < 10 % | -                      | -                                     |                                            |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | CAS No<br>68411-30-3<br><br>EC No<br>270-115-0 | -                                                                | -                      | 1,080 mg/kg                           | oral                                       |
| Pyridine-2-thiol 1-oxide, sodium salt                    | CAS No<br>3811-73-2<br><br>EC No<br>223-296-5  | -                                                                | M-factor (acute) = 100 | 500 mg/kg<br>790 mg/kg<br>0.5 mg/l/4h | oral<br>dermal<br>inhalation:<br>dust/mist |

### Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

#### Following skin contact

Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

#### Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms and effects are not known to date.

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

For specialist advice physicians should contact the poison centre.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Water mist; Alcohol resistant foam; Dry extinguishing powder; Carbon dioxide (CO<sub>2</sub>); Sand;  
Co-ordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet.

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

Hazardous combustion products

During fire hazardous fumes/smoke could be produced: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

### 5.3 Advice for firefighters

Keep containers cool with water spray. In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (EN 133). Standard protective clothing for firefighters.

## SECTION 6: Accidental release measures

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

For non-emergency personnel

Remove persons to safety. Ventilate affected area. Special danger of slipping by leaking/spilling product.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Absorb the spillage with an inert, dry material. Rinse away the rest with plenty of water.

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Recommendations

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- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

## 7.2 Conditions for safe storage, including any incompatibilities

### Managing of associated risks

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

### Control of effects

### Protect against external exposure, such as

High temperatures. UV-radiation/sunlight. Frost.

### Consideration of other advice

Keep in a cool place. Store in a well-ventilated place. Keep container tightly closed. Keep only in original container.

- packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

## 7.3 Specific end use(s)

See section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

No information available.

#### Relevant DNELs/DMELs/PNECs and other threshold levels

| Relevant DNELs of components of the mixture           |            |           |                        |                                    |                               |                            |
|-------------------------------------------------------|------------|-----------|------------------------|------------------------------------|-------------------------------|----------------------------|
| Name of substance                                     | CAS No     | End-point | Threshold level        | Protection goal, route of exposure | Used in                       | Exposure time              |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | 68891-38-3 | DNEL      | 132 µg/cm <sup>2</sup> | human, dermal                      | worker (industry)             | chronic - local effects    |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | 68891-38-3 | DNEL      | 79 µg/cm <sup>2</sup>  | human, dermal                      | consumer (private households) | chronic - local effects    |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | 68891-38-3 | DNEL      | 411 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry)             | chronic - systemic effects |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | 68891-38-3 | DNEL      | 5,830 mg/kg bw/day     | human, dermal                      | worker (industry)             | chronic - systemic effects |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | 68891-38-3 | DNEL      | 87.1 mg/m <sup>3</sup> | human, inhalatory                  | consumer (private households) | chronic - systemic effects |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts | 68891-38-3 | DNEL      | 2,500 mg/kg bw/day     | human, dermal                      | consumer (private households) | chronic - systemic effects |

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

amended by 2020/878/EU

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### Relevant DNELs of components of the mixture

| Name of sub-stance                                       | CAS No     | End-point | Threshold level       | Protection goal, route of exposure | Used in                       | Exposure time              |
|----------------------------------------------------------|------------|-----------|-----------------------|------------------------------------|-------------------------------|----------------------------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | DNEL      | 25 mg/kg bw/day       | human, oral                        | consumer (private households) | chronic - systemic effects |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | DNEL      | 6 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry)             | chronic - local effects    |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | DNEL      | 1.5 mg/m <sup>3</sup> | human, inhalatory                  | consumer (private households) | chronic - local effects    |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | DNEL      | 7.6 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry)             | chronic - systemic effects |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | DNEL      | 119 mg/kg bw/day      | human, dermal                      | worker (industry)             | chronic - systemic effects |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | DNEL      | 1.3 mg/m <sup>3</sup> | human, inhalatory                  | consumer (private households) | chronic - systemic effects |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | DNEL      | 42.5 mg/kg bw/day     | human, dermal                      | consumer (private households) | chronic - systemic effects |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | DNEL      | 0.425 mg/kg bw/day    | human, oral                        | consumer (private households) | chronic - systemic effects |

### Relevant PNECs of components

| Name of sub-stance                                       | CAS No     | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
|----------------------------------------------------------|------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | PNEC      | 0.071 mg/l      | aquatic organisms     | water                        | intermittent release         |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | PNEC      | 0.129 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | PNEC      | 0.013 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | PNEC      | 10 g/l          | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | PNEC      | 4.835 mg/kg     | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | PNEC      | 0.483 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | PNEC      | 7.5 mg/kg       | terrestrial organisms | soil                         | short-term (single instance) |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | PNEC      | 0.268 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |

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| Relevant PNECs of components                             |            |           |                 |                       |                              |                              |
|----------------------------------------------------------|------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of sub-stance                                       | CAS No     | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | PNEC      | 0.027 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | PNEC      | 3.43 mg/l       | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | PNEC      | 8.1 mg/kg       | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | PNEC      | 6.8 mg/kg       | aquatic organisms     | marine sediment              | short-term (single instance) |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | PNEC      | 35 mg/kg        | terrestrial organisms | soil                         | short-term (single instance) |

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection



Use safety goggle with side protection (EN 166).

##### Skin protection

None under normal conditions of use.

##### Hand protection

None under normal conditions of use.

##### - other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

##### Respiratory protection

None under normal conditions of use. In case of inadequate ventilation wear respiratory protection. Full face mask/half mask/quarter mask (EN 136/140).

##### Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                          |                                                                     |
|----------------------------------------------------------|---------------------------------------------------------------------|
| Physical state                                           | liquid                                                              |
| Colour                                                   | purple                                                              |
| Odour                                                    | characteristic                                                      |
| Melting point/freezing point                             | not determined                                                      |
| Boiling point or initial boiling point and boiling range | 100 °C<br>calculated value, referring to a component of the mixture |

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|                                 |                                                                                                                     |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Flammability                    | this material is combustible, but will not ignite readily                                                           |
| Lower and upper explosion limit | LEL: UEL: not determined                                                                                            |
| Flash point                     | no data available                                                                                                   |
| Auto-ignition temperature       | 250 °C (auto-ignition temperature (liquids and gases))<br>calculated value, referring to a component of the mixture |
| Decomposition temperature       | no data available                                                                                                   |
| pH (value)                      | 8.4 – 8.8 (in aqueous solution: 100 % (w/w), 20 °C)                                                                 |
| Kinematic viscosity             | not determined                                                                                                      |
| Dynamic viscosity               | 70 - 100 s at 20 °C (Dincup 4)                                                                                      |

### Solubility

|                  |         |
|------------------|---------|
| Water solubility | soluble |
|------------------|---------|

|                                                   |                                   |
|---------------------------------------------------|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---------------------------------------------------|-----------------------------------|

|                 |                                                                               |
|-----------------|-------------------------------------------------------------------------------|
| Vapour pressure | 2.3 kPa at 20 °C<br>calculated value, referring to a component of the mixture |
|-----------------|-------------------------------------------------------------------------------|

### Density and/or relative density

|                         |                                               |
|-------------------------|-----------------------------------------------|
| Density                 | 1.025 – 1.029 g/cm <sup>3</sup> at 20 °C      |
| Relative vapour density | information on this property is not available |

|                          |                       |
|--------------------------|-----------------------|
| Particle characteristics | not relevant (liquid) |
|--------------------------|-----------------------|

## 9.2 Other information

|                                                    |                                                             |
|----------------------------------------------------|-------------------------------------------------------------|
| Information with regard to physical hazard classes | hazard classes acc. to GHS (physical hazards): not relevant |
|----------------------------------------------------|-------------------------------------------------------------|

### Other safety characteristics

|             |                                 |
|-------------|---------------------------------|
| Miscibility | Completely miscible with water. |
|-------------|---------------------------------|

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

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UV-radiation/sunlight. Extremely high or low temperatures.

### 10.5 Incompatible materials

Oxidisers.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

##### Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity estimate (ATE) of components              |            |                       |             |
|----------------------------------------------------------|------------|-----------------------|-------------|
| Name of substance                                        | CAS No     | Exposure route        | ATE         |
| Alcohols, C12-14 (even numbered), ethoxylated (7-EO)     |            | oral                  | 500 mg/kg   |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | oral                  | 1,080 mg/kg |
| Pyridine-2-thiol 1-oxide, sodium salt                    | 3811-73-2  | oral                  | 500 mg/kg   |
| Pyridine-2-thiol 1-oxide, sodium salt                    | 3811-73-2  | dermal                | 790 mg/kg   |
| Pyridine-2-thiol 1-oxide, sodium salt                    | 3811-73-2  | inhalation: dust/mist | 0.5 mg/l/4h |

| Acute toxicity of components                             |            |                |          |              |         |
|----------------------------------------------------------|------------|----------------|----------|--------------|---------|
| Name of substance                                        | CAS No     | Exposure route | Endpoint | Value        | Species |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | oral           | LD50     | 4,100 mg/kg  | rat     |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | oral           | LD50     | 1,080 mg/kg  | rat     |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | dermal         | LD50     | >2,000 mg/kg | rat     |
| Pyridine-2-thiol 1-oxide, sodium salt                    | 3811-73-2  | oral           | LD50     | 1,208 mg/kg  | rat     |
| Pyridine-2-thiol 1-oxide, sodium salt                    | 3811-73-2  | dermal         | LD50     | 1,900 mg/kg  | rabbit  |

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

##### Serious eye damage/eye irritation

Causes serious eye damage.

##### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

##### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

##### Carcinogenicity

Shall not be classified as carcinogenic.

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### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## 11.2 Information on other hazards

### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

### Other information

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

| Aquatic toxicity (acute) of components of the mixture    |            |                   |           |                                        |               |
|----------------------------------------------------------|------------|-------------------|-----------|----------------------------------------|---------------|
| Name of substance                                        | CAS No     | Endpoint          | Value     | Species                                | Exposure time |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | ErC50             | 27.7 mg/l | algae                                  | 72 h          |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | LC50              | 7.1 mg/l  | zebra fish (Danio rerio)               | 96 h          |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | EC50              | 7.4 mg/l  | daphnia magna                          | 48 h          |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | NOEC              | 0.95 mg/l | green algae (Desmod-esmus subspicatus) | 72 h          |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | LC50              | 1.67 mg/l | bluegill (Lepomis macrochirus)         | 96 h          |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | EC50              | 2.9 mg/l  | daphnia magna                          | 48 h          |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | NOEC              | 0.5 mg/l  | algae                                  | 96 h          |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | LOEC              | 1 mg/l    | algae                                  | 96 h          |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | growth (EbCx) 10% | 13.1 mg/l | algae                                  | 96 h          |
| Pyridine-2-thiol 1-oxide, sodium salt                    | 3811-73-2  | EC50              | 0.6 mg/l  | aquatic invertebrates                  | 48 h          |
| Pyridine-2-thiol 1-oxide, sodium salt                    | 3811-73-2  | ErC50             | 0.46 mg/l | algae                                  | 72 h          |
| Pyridine-2-thiol 1-oxide, sodium salt                    | 3811-73-2  | EbC50             | 0.23 mg/l | algae                                  | 72 h          |
| Pyridine-2-thiol 1-oxide, sodium salt                    | 3811-73-2  | LC50              | 7.3 µg/l  | rainbow trout (Oncorhynchus mykiss)    | 96 h          |
| Pyridine-2-thiol 1-oxide, sodium salt                    | 3811-73-2  | NOEC              | 0.18 mg/l | aquatic invertebrates                  | 48 h          |

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| Aquatic toxicity (chronic) of components of the mixture  |            |                   |                     |                                        |               |
|----------------------------------------------------------|------------|-------------------|---------------------|----------------------------------------|---------------|
| Name of substance                                        | CAS No     | Endpoint          | Value               | Species                                | Exposure time |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | EC50              | >10 <sup>9</sup> /l | soil microorganisms                    | 16 h          |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | NOEC              | ≥1.19 mg/l          | daphnia magna                          | 21 d          |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | growth (EbCx) 10% | 4.4 mg/l            | green algae (Desmod-esmus subspicatus) | 72 h          |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | EC50              | 1.5 mg/l            | daphnia magna                          | 21 d          |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | LC50              | 1.67 mg/l           | daphnia magna                          | 21 d          |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | NOEC              | 0.23 mg/l           | rainbow trout (Onco-rhynchus mykiss)   | 72 d          |
| Pyridine-2-thiol 1-oxide, sodium salt                    | 3811-73-2  | EC50              | 1.81 mg/l           | microorganisms                         | 3 h           |
| Pyridine-2-thiol 1-oxide, sodium salt                    | 3811-73-2  | growth (EbCx) 10% | 1 mg/l              | microorganisms                         | 3 h           |

### 12.2 Persistence and degradability

Not established. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents.

| Degradability of components                              |            |                           |                  |      |        |
|----------------------------------------------------------|------------|---------------------------|------------------|------|--------|
| Name of substance                                        | CAS No     | Process                   | Degradation rate | Time | Method |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | DOC removal               | 100 %            | 28 d |        |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 | oxygen depletion          | ≥77 %            | 28 d |        |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | carbon dioxide generation | 85 %             | 29 d |        |
| Pyridine-2-thiol 1-oxide, sodium salt                    | 3811-73-2  | carbon dioxide generation | 2 %              | 8 d  |        |

### 12.3 Bioaccumulative potential

Not established.

| Bioaccumulative potential of components                  |            |             |                            |          |
|----------------------------------------------------------|------------|-------------|----------------------------|----------|
| Name of substance                                        | CAS No     | BCF         | Log KOW                    | BOD5/COD |
| Alcohols, C12-14, ethoxylated, sulfates, sodium salts    | 68891-38-3 |             | 0.3 (23 °C)                |          |
| Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts | 68411-30-3 | ≥2 – ≤1,000 | 1.4 (23 °C)                |          |
| Pyridine-2-thiol 1-oxide, sodium salt                    | 3811-73-2  |             | -2.38 (pH value: 7, 20 °C) |          |

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

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### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

|      |                                                         |                                                                              |
|------|---------------------------------------------------------|------------------------------------------------------------------------------|
| 14.1 | UN number or ID number                                  | not assigned                                                                 |
| 14.2 | UN proper shipping name                                 | not assigned                                                                 |
| 14.3 | Transport hazard class(es)                              | none                                                                         |
| 14.4 | Packing group                                           | not assigned                                                                 |
| 14.5 | Environmental hazards                                   | non-environmentally hazardous acc. to the dangerous goods regulations        |
| 14.6 | Special precautions for user                            | Provisions for dangerous goods (ADR) should be complied within the premises. |
| 14.7 | Maritime transport in bulk according to IMO instruments | No data available.                                                           |

### Additional information for each of the UN Model Regulations

#### Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - additional information

not assigned

#### International Maritime Dangerous Goods Code (IMDG) - additional information

not assigned

#### International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

not assigned

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

#### Restrictions according to REACH, Annex XVII

| Name                                  | Name acc. to inventory                                                                           | Restriction | No |
|---------------------------------------|--------------------------------------------------------------------------------------------------|-------------|----|
| Wasmiddel 1,2,3-Schoon Black          | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3          | 3  |
| Pyridine-2-thiol 1-oxide, sodium salt | substances in tattoo inks and permanent                                                          | R75         | 75 |

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| Name | Name acc. to inventory | Restriction | No |
|------|------------------------|-------------|----|
|      | make-up                |             |    |

### Legend

R3

- Shall not be used in:
  - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ash-trays,
  - tricks and jokes,
  - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- Articles not complying with paragraph 1 shall not be placed on the market.
- Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
  - can be used as fuel in decorative oil lamps for supply to the general public, and
  - present an aspiration hazard and are labelled with H304.
- Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
- Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
  - lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
  - grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter fluid may lead to life threatening lung damage";
  - lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;

R75

- Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
  - in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
  - in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
  - in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitizer category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
  - in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:
    - 0,1 % by weight, if the substance is used solely as a pH regulator;
    - 0,01 % by weight, in all other cases;
  - in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (\*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
  - in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:
    - "Rinse-off products";
    - "Not to be used in products applied on mucous membranes";
    - "Not to be used in eye products";
  - in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
  - in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
- For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
- If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.
- By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
  - Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
  - Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
- If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
- If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.
- Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:
  - the statement "Mixture for use in tattoos or permanent make-up";
  - a reference number to uniquely identify the batch;
  - the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a com-

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### Legend

mon ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;

(d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;

(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;

(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;

(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008. The information shall be clearly visible, easily legible and marked in a way that is indelible.

The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.

Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.

Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.

8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

### List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

### Seveso Directive

| 2012/18/EU (Seveso III) |                                       |                                                                                       |       |
|-------------------------|---------------------------------------|---------------------------------------------------------------------------------------|-------|
| No                      | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
|                         | not assigned                          |                                                                                       |       |

### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

### Water Framework Directive (WFD)

| List of pollutants (WFD)              |                            |        |           |         |
|---------------------------------------|----------------------------|--------|-----------|---------|
| Name of substance                     | Name acc. to inventory     | CAS No | Listed in | Remarks |
| Pyridine-2-thiol 1-oxide, sodium salt | Metals and their compounds |        | a)        |         |

### Legend

a) Indicative list of the main pollutants

### Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

### Regulation 648/2004/EC on detergents

| Labelling of contents |                                              |
|-----------------------|----------------------------------------------|
| Wt%                   | Constituents                                 |
| ≥5% - <15%            | anionic surfactants<br>non-ionic surfactants |

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| Labelling of contents |                                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wt%                   | Constituents                                                                                                                                                                                            |
| < 5 %                 | phosphonates<br>soap                                                                                                                                                                                    |
|                       | enzymes<br>perfumes (AMYL SALICYLATE, HEXYL CINNAMAL, LIMONENE, AMYL CINNAMAL, TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES)<br>preservation agents (SODIUM PYRITHIONE, BENZISOTHIAZOLINONE, PHENOXYETHANOL) |

### Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

A.I.S.E. Guidance on Detergents Safe Use Mixture Information (SUMI): <https://www.aise.eu/our-activities/regulatory-context/reach/safe-use-information-for-endusers.aspx>

## SECTION 16: Other information

### Abbreviations and acronyms

| Abbr.           | Descriptions of used abbreviations                                                                                                                                                |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute Tox.      | Acute toxicity                                                                                                                                                                    |
| ADR             | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)                     |
| Aquatic Acute   | Hazardous to the aquatic environment - acute hazard                                                                                                                               |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard                                                                                                                             |
| ATE             | Acute Toxicity Estimate                                                                                                                                                           |
| BCF             | Bioconcentration factor                                                                                                                                                           |
| BOD             | Biochemical Oxygen Demand                                                                                                                                                         |
| CAS             | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                            |
| CLP             | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures                                                                                |
| COD             | Chemical oxygen demand                                                                                                                                                            |
| DGR             | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                        |
| DMEL            | Derived Minimal Effect Level                                                                                                                                                      |
| DNEL            | Derived No-Effect Level                                                                                                                                                           |
| EbC50           | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control            |
| EC50            | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval  |
| EC No           | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| ED              | Endocrine disruptor                                                                                                                                                               |
| EINECS          | European Inventory of Existing Commercial Chemical Substances                                                                                                                     |
| ELINCS          | European List of Notified Chemical Substances                                                                                                                                     |
| ErC50           | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control            |
| Eye Dam.        | Seriously damaging to the eye                                                                                                                                                     |
| Eye Irrit.      | Irritant to the eye                                                                                                                                                               |

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

amended by 2020/878/EU

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| Abbr.       | Descriptions of used abbreviations                                                                                                                                                                                                                                                       |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GHS         | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                                                                                                                                |
| IATA        | International Air Transport Association                                                                                                                                                                                                                                                  |
| IATA/DGR    | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                                                                                                                                           |
| ICAO        | International Civil Aviation Organization                                                                                                                                                                                                                                                |
| IMDG        | International Maritime Dangerous Goods Code                                                                                                                                                                                                                                              |
| index No    | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008                                                                                                                                                                 |
| LC50        | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                                                                                                                                        |
| LD50        | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval                                                                                                                                                         |
| LEL         | Lower explosion limit (LEL)                                                                                                                                                                                                                                                              |
| LOEC        | Lowest Observed Effect Concentration                                                                                                                                                                                                                                                     |
| log KOW     | n-Octanol/water                                                                                                                                                                                                                                                                          |
| M-factor    | Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present |
| NLP         | No-Longer Polymer                                                                                                                                                                                                                                                                        |
| NOEC        | No Observed Effect Concentration                                                                                                                                                                                                                                                         |
| PBT         | Persistent, Bioaccumulative and Toxic                                                                                                                                                                                                                                                    |
| PNEC        | Predicted No-Effect Concentration                                                                                                                                                                                                                                                        |
| REACH       | Registration, Evaluation, Authorisation and Restriction of Chemicals                                                                                                                                                                                                                     |
| RID         | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)                                                                                                                  |
| Skin Corr.  | Corrosive to skin                                                                                                                                                                                                                                                                        |
| Skin Irrit. | Irritant to skin                                                                                                                                                                                                                                                                         |
| Skin Sens.  | Skin sensitisation                                                                                                                                                                                                                                                                       |
| STOT RE     | Specific target organ toxicity - repeated exposure                                                                                                                                                                                                                                       |
| SVHC        | Substance of Very High Concern                                                                                                                                                                                                                                                           |
| UEL         | Upper explosion limit (UEL)                                                                                                                                                                                                                                                              |
| vPvB        | Very Persistent and very Bioaccumulative                                                                                                                                                                                                                                                 |

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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amended by 2020/878/EU

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### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                                                            |
|------|-----------------------------------------------------------------|
| H302 | Harmful if swallowed.                                           |
| H311 | Toxic in contact with skin.                                     |
| H315 | Causes skin irritation.                                         |
| H317 | May cause an allergic skin reaction.                            |
| H318 | Causes serious eye damage.                                      |
| H319 | Causes serious eye irritation.                                  |
| H331 | Toxic if inhaled.                                               |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life.                                     |
| H411 | Toxic to aquatic life with long lasting effects.                |
| H412 | Harmful to aquatic life with long lasting effects.              |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.