

# SAFETY DATA SHEET

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



## SIMIN

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 24.09.2024  |
| 1.1     | 15.10.2024     | 50002987    | Date of first issue: 24.09.2024 |

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

#### 1.1 Product identifier

**Product name** SIMIN

#### Other means of identification

**Product code** 50002987

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

**Use of the Substance/Mixture** : Insecticide

**Recommended restrictions on use** : Use as recommended by the label.

#### 1.3 Manufacturer or supplier's details

**Supplier Address** FMC Chemicals Hellas MEPE  
Syngrou Avenue 348  
17674 Kallithea  
Greece  
  
Telephone: +30 211 1982768  
Telefax: +30 211 1138614  
E-mail address: SDS-Info@fmc.com .

#### 1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:  
Greece: 30-2111768478 (CHEMTREC)

Medical emergency:  
Greece: 30 210 77 93 777

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### **Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters airways.

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|  |   |
|--|---|
| Serious eye damage, Category 1                               | H318: Causes serious eye damage.                            |
| Short-term (acute) aquatic hazard, Category 1                | H315: Causes skin irritation.                               |
| Long-term (chronic) aquatic hazard, Category 1               | H318: Causes serious eye damage.                            |
| Acute toxicity, Category 4                                   | H304: May be fatal if swallowed and enters airways.         |
| Skin irritation, Category 2                                  | H400: Very toxic to aquatic life.                           |
| Specific target organ toxicity - single exposure, Category 3 | H410: Very toxic to aquatic life with long lasting effects. |

## 2.2 Label elements

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

Hazard pictograms :



Signal word : Danger

Hazard statements :

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H336 May cause drowsiness or dizziness.
- H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements : P102 Keep out of reach of children.

### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

### Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

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P302 + P352 IF ON SKIN: Wash with plenty of water and soap.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P331 Do NOT induce vomiting.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.

### Storage:

P405 Store locked up.

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

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified  
BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., CALCIUM SALT  
deltamethrin (ISO)  
2-ethylhexan-1-ol

### Additional Labelling

For special phrases (SP) and safety intervals, consult the label.

## 2.3 Other hazards

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

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

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name  | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification              | Concentration<br>(% w/w) |
|--|---|-----------------------------|--------------------------|
| Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified | 64742-94-5<br>265-198-5<br>649-424-00-3               | Asp. Tox. 1; H304<br>EUH066 | >= 70 - < 100            |

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|--|---|--|---------------|
| BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., CALCIUM SALT | 1335202-81-7                            | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Aquatic Chronic 3; H412   | >= 3 - < 10   |
| deltamethrin (ISO)                                       | 52918-63-5<br>258-256-6<br>607-319-00-X | Acute Tox. 3; H301<br>Acute Tox. 2; H330<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br><br>M-Factor (Acute aquatic toxicity): 1.000.000<br>M-Factor (Chronic aquatic toxicity): 1.000.000<br><br>Acute toxicity estimate<br><br>Acute oral toxicity: 87,4 mg/kg<br>Acute inhalation toxicity (dust/mist): 0,2321 mg/l | >= 2,5 - < 10 |
| 2-ethylhexan-1-ol  | 104-76-7<br>203-234-3                   | Acute Tox. 4; H332<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335 (Respiratory system)<br><br>Acute toxicity estimate<br><br>Acute inhalation toxicity (dust/mist): 4,3 mg/l  | >= 1 - < 2,5  |
| Ethoxylated oleyl amine, dodecylbenzenesulphonic salt    | 66467-20-7                              | Acute Tox. 4; H302<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Aquatic Chronic 3; H412<br><br>Acute toxicity estimate<br><br>Acute oral toxicity: 1.570 mg/kg  | >= 2 - < 3    |

For explanation of abbreviations see section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- |                            |   |  |
|----------------------------|---|--|
| General advice             | : | Call a physician immediately.<br>Show this safety data sheet to the doctor in attendance.  |
| Protection of first-aiders | : | First Aid responders should pay attention to self-protection and use the recommended protective clothing<br>Avoid inhalation, ingestion and contact with skin and eyes.<br>If potential for exposure exists refer to Section 8 for specific personal protective equipment. |
| If inhaled                 | : | If unconscious, place in recovery position and seek medical advice.  |
| In case of skin contact    | : | Wash off immediately with soap and plenty of water.  |
| In case of eye contact     | : | In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  |
| If swallowed               | : | Get medical attention immediately.   |

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

- |       |   |  |
|-------|---|--|
| Risks | : | Harmful if swallowed or in contact with skin.<br>May be fatal if swallowed and enters airways.<br>Causes skin irritation.<br>Causes serious eye damage.<br>Toxic if inhaled. |
|-------|---|--|

#### 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   | : | Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical<br>Water spray |
| Unsuitable extinguishing media | : | High volume water jet  |

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

- |                                       |   |   |
|---------------------------------------|---|---|
| Specific hazards during fire-fighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products         | : | No hazardous combustion products are known                                |

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### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

## SECTION 6: Accidental release measures

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

- Personal precautions : Use personal protective equipment.  
Keep people away from and upwind of spill/leak.  
Only qualified personnel equipped with suitable protective equipment may intervene.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Never return spills in original containers for re-use.  
For disposal considerations see section 13.

### 6.2 Environmental precautions

- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

- Methods for cleaning up : Absorb spillage to prevent material damage.  
Use neutralizing agents.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the ap-

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plication area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

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

Requirements for storage areas and containers : Prevent unauthorized access. No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Registered pesticide to be used in accordance with a label approved by country-specific regulatory authorities.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                      | CAS-No.  | Value type (Form of exposure) | Control parameters             | Basis       |
|---------------------------------|----------|-------------------------------|--------------------------------|-------------|
| 2-ethylhexan-1-ol               | 104-76-7 | TWA                           | 1 ppm<br>5,4 mg/m <sup>3</sup> | 2017/164/EU |
| Further information: Indicative |          |                               |                                |             |
|                                 |          | TWA                           | 1 ppm<br>5,4 mg/m <sup>3</sup> | GR OEL      |

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

| Substance name    | End Use | Exposure routes | Potential health effects | Value                |
|-------------------|---------|-----------------|--------------------------|----------------------|
| Ethoxylated oleyl | Workers | Inhalation      | Long-term systemic       | 12 mg/m <sup>3</sup> |

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|-------------------------------------|-----------|------------|----------------------------|------------|
| amine, dodecylbenzenesulphonic salt |           |            | effects                    |            |
|                                     | Workers   | Inhalation | Long-term local effects    | 12 mg/m3   |
|                                     | Workers   | Dermal     | Long-term systemic effects | 170 mg/kg  |
|                                     | Consumers | Inhalation | Long-term systemic effects | 3 mg/m3    |
|                                     | Consumers | Inhalation | Long-term local effects    | 3 mg/m3    |
|                                     | Consumers | Dermal     |                            | 85 mg/kg   |
|                                     | Consumers | Oral       |                            | 0,85 mg/kg |

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

| Substance name  | Environmental Compartment | Value      |
|---|---------------------------|------------|
| Ethoxylated oleyl amine, dodecylbenzenesulphonic salt | Fresh water               | 0,268 mg/l |
|   | Marine water              | 0,027 mg/l |
|   | Sewage treatment plant    | 3,43 mg/l  |
|   | Fresh water sediment      | 8,1 mg/kg  |
|   | Marine sediment           | 8,1 mg/kg  |
|   | Soil                      | 35 mg/kg   |

## 8.2 Exposure controls

### Personal protective equipment

- Eye/face protection : Tightly fitting safety goggles
- Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Protective measures : Plan first aid action before beginning work with this product.  
Wear suitable protective equipment.  
Ensure that eye flushing systems and safety showers are located close to the working place.  
Always have on hand a first-aid kit, together with proper instructions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties



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|  |   |   |
|--|---|---|
| Physical state                                   | : | liquid  |
| Colour   | : | yellow  |
| Odour  | : | solvent-like  |
| Odour Threshold                                  | : | No data available   |
| Melting point/freezing point                     | : | No data available   |
| Initial boiling point and boiling range          | : | No data available   |
| Upper explosion limit / Upper flammability limit | : | No data available   |
| Lower explosion limit / Lower flammability limit | : | No data available   |
| Flash point                                      | : | 56,6 °C<br>Method: Directive 67/548/EEC, Annex V, A.9.      |
| Auto-ignition temperature                        | : | 430 °C<br>Method: Regulation (EC) No. 440/2008, Annex, A.16 |
| Decomposition temperature                        | : | No data available   |
| pH   | : | 5,6 (20 °C)<br>Method: CIPAC MT 75.3                        |
| Viscosity  | : |   |
| Viscosity, dynamic                               | : | 1,78 mPa.s (20 °C)  |
| Viscosity, kinematic                             | : | No data available   |
| Solubility(ies)                                  | : |   |
| Water solubility                                 | : | dispersible   |
| Partition coefficient: n-octanol/water           | : | No data available   |
| Vapour pressure                                  | : | No data available   |
| Relative density                                 | : | No data available   |
| Density  | : | 0,9 g/cm <sup>3</sup><br>Method: OECD Test Guideline 109    |
| Relative vapour density                          | : | No data available   |

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

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### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

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

#### Acute toxicity

Harmful if swallowed or in contact with skin.

Toxic if inhaled.

#### Product:

Acute oral toxicity : LD50 (Rabbit): > 2.000 mg/kg

Acute inhalation toxicity : LD50 (Rat): > 5,25 mg/l  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
  
Acute toxicity estimate: 0,7964 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402

#### Components:

#### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 4,688 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

#### **deltamethrin (ISO):**

Acute oral toxicity : LD50 (Rat): 87,4 mg/kg

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Acute inhalation toxicity : LC50: > 0,232 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

### 2-ethylhexan-1-ol:

Acute oral toxicity : LD50 (Rat, male): 2.047 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4,3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 3.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### Ethoxylated oleyl amine, dodecylbenzenesulphonic salt:

Acute oral toxicity : LD50 (Rat, male and female): 1.570 mg/kg  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit, male): 2.504 mg/kg  
Method: OECD Test Guideline 402  
  
LD50 (Rabbit, female): 2.881 mg/kg  
Method: OECD Test Guideline 402

### Skin corrosion/irritation

Causes skin irritation.

#### Product:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation

Remarks : Extremely corrosive and destructive to tissue.

#### Components:

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Species : Rabbit  
Assessment : Repeated exposure may cause skin dryness or cracking.  
Result : No skin irritation  
Remarks : Minimal effects that do not meet the threshold for classification.  
Based on data from similar materials

##### **BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., CALCIUM SALT:**

Assessment : Irritating to skin.

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### **deltamethrin (ISO):**

Result : No skin irritation

### **2-ethylhexan-1-ol:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation

### **Ethoxylated oleyl amine, dodecylbenzenesulhponic salt:**

Species : reconstructed human epidermis (RhE)  
Method : OECD Test Guideline 431  
Result : Skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye damage.

#### **Product:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Remarks : Risk of serious damage to eyes.

Remarks : May cause irreversible eye damage.

#### **Components:**

### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Species : Rabbit  
Assessment : No eye irritation  
Remarks : Minimal effects that do not meet the threshold for classification.  
Based on data from similar materials

### **BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., CALCIUM SALT:**

Assessment : Corrosive

### **deltamethrin (ISO):**

Result : slight irritation

### **2-ethylhexan-1-ol:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritation to eyes, reversing within 21 days

### **Ethoxylated oleyl amine, dodecylbenzenesulhponic salt:**

Species : Rabbit  
Method : OECD Test Guideline 405

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Result : Irreversible effects on the eye

### Respiratory or skin sensitisation

#### Skin sensitisation

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

#### Respiratory sensitisation

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

#### Product:

|         |   |  |
|---------|---|--|
| Species | : | Guinea pig                               |
| Method  | : | OECD Test Guideline 406                  |
| Remarks | : | Not expected to cause skin sensitisation |

#### Components:

##### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

|           |   |                                      |
|-----------|---|--------------------------------------|
| Test Type | : | Maximisation Test                    |
| Species   | : | Guinea pig                           |
| Result    | : | Not a skin sensitizer.               |
| Remarks   | : | Based on data from similar materials |

##### deltamethrin (ISO):

|        |   |                        |
|--------|---|------------------------|
| Result | : | Not a skin sensitizer. |
|--------|---|------------------------|

##### Ethoxylated oleyl amine, dodecylbenzenesulphonic salt:

|                 |   |                                      |
|-----------------|---|--------------------------------------|
| Test Type       | : | Maximisation Test                    |
| Exposure routes | : | Skin contact                         |
| Species         | : | Guinea pig                           |
| Method          | : | OECD Test Guideline 406              |
| Result          | : | Not a skin sensitizer.               |
| Remarks         | : | Based on data from similar materials |

### Germ cell mutagenicity

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

#### Components:

##### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

|                       |   |   |
|-----------------------|---|---|
| Genotoxicity in vitro | : | Test Type: reverse mutation assay<br>Method: OECD Test Guideline 471<br>Result: negative<br>Remarks: Based on data from similar materials |
| Genotoxicity in vivo  | : | Test Type: Bone marrow chromosome aberration<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Result: negative                |

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### **deltamethrin (ISO):**

Genotoxicity in vivo : Result: negative

### **2-ethylhexan-1-ol:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

### **Ethoxylated oleyl amine, dodecylbenzenesulphonic salt:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negative  
Remarks: Based on data from similar materials

Test Type: gene mutation test  
Test system: Chinese hamster ovary cells  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Rodent Dominant Lethal Assay  
Species: Mouse (male)  
Result: negative  
Remarks: Based on data from similar materials

### **Carcinogenicity**

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

### **Components:**

#### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Species : Rat, male and female  
Application Route : inhalation (vapour)  
Exposure time : 12 month(s)  
NOAEC : 1,8 mg/l  
Result : negative  
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **deltamethrin (ISO):**

Result : negative

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### 2-ethylhexan-1-ol:

|                   |   |             |
|-------------------|---|-------------|
| Species           | : | Rat         |
| Application Route | : | Oral        |
| Exposure time     | : | 24 month(s) |
| Result            | : | negative    |

### Reproductive toxicity

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

### Components:

#### 2-ethylhexan-1-ol:

|                               |   |                                      |
|-------------------------------|---|--------------------------------------|
| Effects on foetal development | : | Test Type: Embryo-foetal development |
|                               |   | Species: Mouse                       |
|                               |   | Application Route: Oral              |
|                               |   | Method: OECD Test Guideline 414      |
|                               |   | Result: negative                     |

### STOT - single exposure

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

### Components:

#### 2-ethylhexan-1-ol:

|            |   |                                   |
|------------|---|-----------------------------------|
| Assessment | : | May cause respiratory irritation. |
|------------|---|-----------------------------------|

### STOT - repeated exposure

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

### Repeated dose toxicity

### Components:

#### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

|                   |   |                      |
|-------------------|---|----------------------|
| Species           | : | Rat, male and female |
| NOAEC             | : | 0,9 - 1,8 mg/l       |
| Application Route | : | inhalation (vapour)  |
| Exposure time     | : | 12 Months            |

#### 2-ethylhexan-1-ol:

|                   |   |                         |
|-------------------|---|-------------------------|
| Species           | : | Rat                     |
|                   | : | 250 mg/kg               |
| Application Route | : | Oral                    |
| Exposure time     | : | 13 Weeks                |
| Method            | : | OECD Test Guideline 408 |

#### Ethoxylated oleyl amine, dodecylbenzenesulphonic salt:

|                   |   |                      |
|-------------------|---|----------------------|
| Species           | : | Rat, male and female |
| NOAEL             | : | 300 mg/kg bw/day     |
| Application Route | : | Oral - feed          |
| Exposure time     | : | >75 days             |

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Remarks : Based on data from similar materials

### Aspiration toxicity

May be fatal if swallowed and enters airways.

### Components:

#### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

May be fatal if swallowed and enters airways.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

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

### Experience with human exposure

#### Components:

#### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Skin contact : Symptoms: Repeated exposure may cause skin dryness or cracking.

### Further information

#### Product:

Remarks : Solvents may degrease the skin.

#### Components:

#### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Remarks : Vapour concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.



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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Product:

|   |   |  |
|---|---|--|
| Toxicity to fish                                    | : | LC50 (Danio rerio (zebra fish)): 0,09 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203                         |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 5,56 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                       |
| Toxicity to algae/aquatic plants                    | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): 429,12 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |

##### Components:

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

|  |   |  |
|--|---|--|
| Toxicity to fish   | : | LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203           |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EL50 (Daphnia magna (Water flea)): 1,4 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                      |
| Toxicity to algae/aquatic plants                                       | : | EL50 (Pseudokirchneriella subcapitata (green algae)): 1 - 3 mg/l<br>Exposure time: 24 h<br>Method: OECD Test Guideline 201 |
| Toxicity to microorganisms   | : | LL50 (Tetrahymena pyriformis): 677,9 mg/l<br>Exposure time: 72 h<br>Test Type: Growth inhibition                           |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | EL50: 0,89 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Method: OECD Test Guideline 211           |

##### **BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., CALCIUM SALT:**

##### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

##### **deltamethrin (ISO):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,727 µg/l

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Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,4 µg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,0753 µg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (Scenedesmus subspicatus): > 9,1 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1.000.000

Toxicity to fish (Chronic toxicity) : NOEC: < 32 ng/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 4.1 ng/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 1.000.000

Toxicity to soil dwelling organisms : LC50: > 1.290 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : LD50: > 4.640 mg/kg  
Species: Anas platyrhynchos (Mallard duck)

LD50: > 2.250 mg/kg  
Species: Colinus virginianus (Bobwhite quail)

LD50: 0,0015 µg/bee  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)

LD50: 0,079 µg/bee  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)

### 2-ethylhexan-1-ol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 17,1 - 28,2 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 39 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC10 (Desmodesmus subspicatus (green algae)): 3,2 mg/l  
Exposure time: 72 h

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EC50 (Desmodesmus subspicatus (green algae)): 11,5 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Anabaena flos-aquae (cyanobacterium)): 16,6 mg/l  
Exposure time: 72 h

### Ethoxylated oleyl amine, dodecylbenzenesulphonic salt:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,67 mg/l  
Exposure time: 96 h  
Test Type: static test  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,9 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 16,8 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOEC (Desmodesmus subspicatus (green algae)): 5,7 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: 0,23 mg/l  
Exposure time: 196 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 2,9 mg/l  
Exposure time: 32 d  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

Toxicity to soil dwelling organisms : LC50: > 1.000 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

NOEC: 250 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

## 12.2 Persistence and degradability

### Components:

**Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Biodegradability : Result: Readily biodegradable.

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Biodegradation: 58,6 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

### **deltamethrin (ISO):**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 50 %  
Exposure time: 25 d

### **2-ethylhexan-1-ol:**

Biodegradability : Result: Readily biodegradable.

### **Ethoxylated oleyl amine, dodecylbenzenesulphonic salt:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 85 %  
Exposure time: 29 d  
Method: OECD Test Guideline 301B

## 12.3 Bioaccumulative potential

### **Components:**

#### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Bioaccumulation : Remarks: The product/substance has a potential to bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 3,72  
Method: QSAR

### **deltamethrin (ISO):**

Bioaccumulation : Bioconcentration factor (BCF): 1.400  
Remarks: The product/substance has a potential to bioaccumulate.

### **2-ethylhexan-1-ol:**

Partition coefficient: n-octanol/water : log Pow: 2,9 (25 °C)

### **Ethoxylated oleyl amine, dodecylbenzenesulphonic salt:**

Bioaccumulation : Bioconcentration factor (BCF): 2 - 1.000  
Method: OECD Test Guideline 305E

Partition coefficient: n-octanol/water : log Pow: 1,51

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### 12.4 Mobility in soil

#### Components:

##### **Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:**

Distribution among environmental compartments : Remarks: Expected to partition to sediment and wastewater solids. Moderately volatile.

##### **deltamethrin (ISO):**

Distribution among environmental compartments : Koc: 460000 - 16300000 ml/g, log Koc: > 5,6  
Remarks: immobile

Stability in soil :

### 12.5 Results of PBT and vPvB assessment

#### Product:

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

### 12.6 Endocrine disrupting properties

#### Product:

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

### 12.7 Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.

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Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

|      |   |         |
|------|---|---------|
| ADN  | : | UN 1993 |
| ADR  | : | UN 1993 |
| RID  | : | UN 1993 |
| IMDG | : | UN 1993 |
| IATA | : | UN 1993 |

#### 14.2 UN proper shipping name

|      |   |  |
|------|---|--|
| ADN  | : | FLAMMABLE LIQUID, N.O.S.<br>(Deltamethrin)<br>(Isobutyl Alcohol) |
| ADR  | : | FLAMMABLE LIQUID, N.O.S.<br>(Deltamethrin)<br>(Isobutyl Alcohol) |
| RID  | : | FLAMMABLE LIQUID, N.O.S.<br>(Deltamethrin)<br>(Isobutyl Alcohol) |
| IMDG | : | FLAMMABLE LIQUID, N.O.S.<br>(Deltamethrin)<br>(Isobutyl Alcohol) |
| IATA | : | Flammable liquid, n.o.s.<br>(Deltamethrin)<br>(Isobutyl Alcohol) |

#### 14.3 Transport hazard class(es)

|      | Class | Subsidiary risks |
|------|-------|------------------|
| ADN  | :     | 3                |
| ADR  | :     | 3                |
| RID  | :     | 3                |
| IMDG | :     | 3                |
| IATA | :     | 3                |

#### 14.4 Packing group

|                              |   |     |
|------------------------------|---|-----|
| ADN                          | : |     |
| Packing group                | : | III |
| Classification Code          | : | F1  |
| Hazard Identification Number | : | 30  |
| Labels                       | : | 3   |

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### ADR

|                              |         |
|------------------------------|---------|
| Packing group                | : III   |
| Classification Code          | : F1    |
| Hazard Identification Number | : 30    |
| Labels                       | : 3     |
| Tunnel restriction code      | : (D/E) |

### RID

|                              |       |
|------------------------------|-------|
| Packing group                | : III |
| Classification Code          | : F1  |
| Hazard Identification Number | : 30  |
| Labels                       | : 3   |

### IMDG

|               |            |
|---------------|------------|
| Packing group | : III      |
| Labels        | : 3        |
| EmS Code      | : F-E, S-E |

### IATA (Cargo)

|                                      |                     |
|--------------------------------------|---------------------|
| Packing instruction (cargo aircraft) | : 366               |
| Packing instruction (LQ)             | : Y344              |
| Packing group                        | : III               |
| Labels                               | : Flammable Liquids |

### IATA (Passenger)

|  |                     |
|--|---------------------|
| Packing instruction (passenger aircraft) | : 355               |
| Packing instruction (LQ)                 | : Y344              |
| Packing group                            | : III               |
| Labels                                   | : Flammable Liquids |

## 14.5 Environmental hazards

### ADN

|                           |       |
|---------------------------|-------|
| Environmentally hazardous | : yes |
|---------------------------|-------|

### ADR

|                           |       |
|---------------------------|-------|
| Environmentally hazardous | : yes |
|---------------------------|-------|

### RID

|                           |       |
|---------------------------|-------|
| Environmentally hazardous | : yes |
|---------------------------|-------|

### IMDG

|                  |       |
|------------------|-------|
| Marine pollutant | : yes |
|------------------|-------|

## 14.6 Special precautions for user

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

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. H2 ACUTE TOXIC

P5c FLAMMABLE LIQUIDS

E1 ENVIRONMENTAL HAZARDS

34 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)



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### Other regulations:

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

### The components of this product are reported in the following inventories:

|       |   |
|-------|---|
| TCSI  | : Not in compliance with the inventory  |
| TSCA  | : Product contains substance(s) not listed on TSCA inventory.   |
| AIIC  | : Not in compliance with the inventory  |
| DSL   | : This product contains the following components that are not on the Canadian DSL nor NDSL.<br><br>BENZENESULFONIC ACID, C10-13-ALKYL DERIVS.,<br>CALCIUM SALT<br>deltamethrin (ISO)<br>Ethoxylated oleyl amine, dodecylbenzenesulphonic salt |
| ENCS  | : Not in compliance with the inventory  |
| ISHL  | : Not in compliance with the inventory  |
| KECI  | : Not in compliance with the inventory  |
| PICCS | : Not in compliance with the inventory  |
| IECSC | : Not in compliance with the inventory  |
| NZIoC | : Not in compliance with the inventory  |
| TECI  | : Not in compliance with the inventory  |

### 15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

## SECTION 16: Other information

### Full text of H-Statements

|      |   |
|------|---|
| H301 | : Toxic if swallowed.                                   |
| H302 | : Harmful if swallowed.                                 |
| H304 | : May be fatal if swallowed and enters airways.         |
| H315 | : Causes skin irritation.                               |
| H318 | : Causes serious eye damage.                            |
| H319 | : Causes serious eye irritation.                        |
| H330 | : Fatal if inhaled.                                     |
| H332 | : Harmful if inhaled.                                   |
| H335 | : May cause respiratory irritation.                     |
| H400 | : Very toxic to aquatic life.                           |
| H410 | : Very toxic to aquatic life with long lasting effects. |

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H412 : Harmful to aquatic life with long lasting effects.  
EUH066 : Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

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  
Eye Irrit. : Eye irritation  
Skin Irrit. : Skin irritation  
STOT SE : Specific target organ toxicity - single exposure  
2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values  
GR OEL : Greece. Exposure limit values  
2017/164/EU / TWA : Limit Value - eight hours  
GR OEL / TWA : Long term exposure limit

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

### Further information

# SAFETY DATA SHEET

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



## SIMIN

|         |                |             |                                 |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 24.09.2024  |
| 1.1     | 15.10.2024     | 50002987    | Date of first issue: 24.09.2024 |

### Classification of the mixture:

|                   |      |
|-------------------|------|
| Flam. Liq. 3      | H226 |
| Asp. Tox. 1       | H304 |
| Eye Dam. 1        | H318 |
| Aquatic Acute 1   | H315 |
| Aquatic Chronic 1 | H318 |
| Acute Tox. 4      | H304 |
| 6.3 2             | H400 |
| STOT SE 3         | H410 |

### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Based on product data or assessment |
| Based on product data or assessment |
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| Based on product data or assessment |
| Calculation method                  |

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