

# SAFETY DATA SHEET

## MOBIHEL 2:1 CLEARCOAT ANTI SCRATCH



Version 1.0      Revision Date: 01.12.2023      SDS Number: MAT000471552  
JO/EN      Date of last issue: -      Date of first issue: 01.12.2023

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

#### 1.1 Product identifier

Trade name : MOBIHEL 2:1 CLEARCOAT ANTI SCRATCH  
Product code : 47155201

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

Use of the Sub-stance/Mixture : Coatings and paints, thinners, paint removers  
Recommended restrictions on use : Reserved for industrial and professional use.

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

Company : Helios TBLUS d.o.o.  
Količevo 65  
1230 Domžale  
Slovenia  
Telephone Company : 386 (1) 722 4383  
Telefax Company : 386 (1) 722 4310  
Responsible/issuing person : 386 (1) 722 4383  
productsafety@helios.si

#### 1.4 Emergency telephone number

Emergency telephone number: 911

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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.                                       |
| Skin irritation, Category 2  | H315: Causes skin irritation.  |
| Eye irritation, Category 2   | H319: Causes serious eye irritation.                                     |
| Specific target organ toxicity - single exposure, Category 3, Respiratory system | H335: May cause respiratory irritation.                                  |
| Specific target organ toxicity - repeated exposure, Category 2                   | H373: May cause damage to organs through prolonged or repeated exposure. |
| Long-term (chronic) aquatic hazard, Category 3                                   | H412: Harmful to aquatic life with long lasting effects.                 |

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### 2.2 Label elements

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

Hazard pictograms :



Signal word : Warning

Hazard statements :  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

#### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe mist or vapours.  
P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

#### Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:  
reaction mixture of ethylbenzene, m-xylene and p-xylene

#### Additional Labelling

EUH208 Contains mixture of benzotriazole, mixture of sterically composed sebacates.  
May produce an allergic reaction.

### 2.3 Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification | Concentration<br>(% w/w) |
|---------------|---|----------------|--------------------------|
|               |   |                |                          |

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|  |  |  |               |
|--|--|--|---------------|
| reaction mixture of ethylbenzene, m-xylene and p-xylene  | -<br>905-562-9<br>01-2119555267-33                           | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335<br>(Respiratory system)<br>STOT RE 2; H373<br>Asp. Tox. 1; H304 | >= 30 - < 50  |
| n-butyl acetate  | 123-86-4<br>204-658-1<br>607-025-00-1<br>01-2119485493-29    | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)  | >= 1 - < 10   |
| 2-methoxy-1-methylethyl acetate  | 108-65-6<br>203-603-9<br>607-195-00-7<br>01-2119475791-29    | Flam. Liq. 3; H226<br>STOT SE 3; H336<br>(Central nervous system)  | >= 1 - < 10   |
| mixture of benzotriazole   | 104810-48-2<br>400-830-7<br>607-176-00-3<br>01-0000015075-76 | Skin Sens. 1; H317<br>Aquatic Chronic 2;<br>H411   | >= 0.25 - < 1 |
| Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 1065336-91-5<br>915-687-0<br>01-2119491304-40                | Skin Sens. 1; H317<br>Repr. 2; H361f<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410   | >= 0.25 - < 1 |

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.

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Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

Risks : Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.

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

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

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

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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.

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### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

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

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### 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 exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application 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.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

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 : When using do not eat or drink. When using do not smoke.  
Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : 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) : For further information, refer to the product technical data sheet.

Consult the technical guidelines for the use of this substance/mixture.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components  | CAS-No.   | Value type (Form of exposure) | Control parameters               | Basis        |
|---|-----------|-------------------------------|----------------------------------|--------------|
| reaction mixture of ethylbenzene, m-xylene and p-xylene | 1330-20-7 | TWA                           | 50 ppm<br>221 mg/m <sup>3</sup>  | 2000/39/EC   |
|   |           | STEL                          | 100 ppm<br>442 mg/m <sup>3</sup> | 2000/39/EC   |
| n-butyl acetate   | 123-86-4  | STEL                          | 150 ppm<br>723 mg/m <sup>3</sup> | 2019/1831/EU |
|   |           | TWA                           | 50 ppm<br>241 mg/m <sup>3</sup>  | 2019/1831/EU |
| 2-methoxy-1-methylethyl acetate                         | 108-65-6  | STEL                          | 100 ppm<br>550 mg/m <sup>3</sup> | 2000/39/EC   |
|   |           | TWA                           | 50 ppm<br>275 mg/m <sup>3</sup>  | 2000/39/EC   |

#### Derived No Effect Level (DNEL)

#### according to Regulation (EC) No. 1907/2006:

| Substance name  | End Use   | Exposure routes | Potential health effects   | Value                  |
|---|-----------|-----------------|----------------------------|------------------------|
| reaction mixture of ethylbenzene, m-xylene and p-xylene | Workers   | Inhalation      | Long-term systemic effects | 77 mg/m <sup>3</sup>   |
|   | Consumers | Inhalation      | Long-term local effects    | 65.3 mg/m <sup>3</sup> |
|   | Workers   | Inhalation      | Acute systemic effects     | 442 mg/m <sup>3</sup>  |

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|                                 |           |            |                            |                  |
|---------------------------------|-----------|------------|----------------------------|------------------|
|                                 | Workers   | Inhalation | Acute local effects        | 289 mg/m3        |
|                                 | Consumers | Inhalation | Acute systemic effects     | 260 mg/m3        |
|                                 | Workers   | Inhalation | Long-term local effects    | 221 mg/m3        |
|                                 | Consumers | Inhalation | Long-term systemic effects | 14.8 mg/m3       |
|                                 | Consumers | Inhalation | Acute local effects        | 260 mg/m3        |
|                                 | Consumers | Dermal     | Long-term systemic effects | 108 mg/kg bw/day |
|                                 | Consumers | Oral       | Long-term systemic effects | 16 mg/kg bw/day  |
|                                 | Workers   | Dermal     | Long-term systemic effects | 180 mg/kg bw/day |
| n-butyl acetate                 | Workers   | Inhalation | Acute systemic effects     | 600 mg/m3        |
|                                 | Workers   | Inhalation | Acute local effects        | 600 mg/m3        |
|                                 | Workers   | Inhalation | Long-term systemic effects | 48 mg/m3         |
|                                 | Workers   | Inhalation | Long-term local effects    | 300 mg/m3        |
|                                 | Consumers | Inhalation | Acute systemic effects     | 300 mg/m3        |
|                                 | Consumers | Inhalation | Acute local effects        | 300 mg/m3        |
|                                 | Consumers | Inhalation | Long-term systemic effects | 12 mg/m3         |
|                                 | Consumers | Inhalation | Long-term local effects    | 35.7 mg/m3       |
|                                 | Consumers | Dermal     | Long-term systemic effects | 3.4 mg/kg bw/day |
|                                 | Consumers | Dermal     | Acute systemic effects     | 6 mg/kg bw/day   |
|                                 | Consumers | Oral       | Long-term systemic effects | 2 mg/kg bw/day   |
|                                 | Consumers | Oral       | Acute systemic effects     | 2 mg/kg bw/day   |
|                                 | Workers   | Dermal     | Long-term systemic effects | 7 mg/kg bw/day   |
|                                 | Workers   | Dermal     | Acute systemic effects     | 11 mg/kg bw/day  |
| 2-methoxy-1-methylethyl acetate | Workers   | Inhalation | Long-term systemic effects | 275 mg/m3        |
|                                 | Workers   | Inhalation | Acute local effects        | 550 mg/m3        |
|                                 | Consumers | Inhalation | Long-term systemic effects | 33 mg/m3         |
|                                 | Consumers | Inhalation | Long-term local effects    | 33 mg/m3         |
|                                 | Workers   | Dermal     | Long-term systemic effects | 796 mg/kg bw/day |
|                                 | Consumers | Dermal     | Long-term systemic effects | 320 mg/kg bw/day |
|                                 | Consumers | Oral       | Long-term systemic effects | 36 mg/kg bw/day  |

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### Predicted No Effect Concentration (PNEC)

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

| Substance name  | Environmental Compartment | Value                          |
|---|---------------------------|--------------------------------|
| reaction mixture of ethylbenzene, m-xylene and p-xylene | Soil                      | 2.31 mg/kg dry weight (d.w.)   |
|   | Marine water              | 0.327 mg/l                     |
|   | Fresh water               | 0.327 mg/l                     |
|   | Marine sediment           | 12.46 mg/kg dry weight (d.w.)  |
|   | Fresh water sediment      | 12.46 mg/kg dry weight (d.w.)  |
|   | Sewage treatment plant    | 6.58 mg/l                      |
| n-butyl acetate   | Intermittent use/release  | 0.327 mg/l                     |
|   | Soil                      | 0.0903 mg/kg dry weight (d.w.) |
|   | Marine water              | 0.018 mg/l                     |
|   | Fresh water               | 0.18 mg/l                      |
|   | Marine sediment           | 0.0981 mg/kg dry weight (d.w.) |
|   | Fresh water sediment      | 0.981 mg/kg dry weight (d.w.)  |
| 2-methoxy-1-methylethyl acetate                         | Sewage treatment plant    | 35.6 mg/l                      |
|   | Intermittent use/release  | 0.36 mg/l                      |
|   | Soil                      | 0.29 mg/kg dry weight (d.w.)   |
|   | Marine water              | 0.0635 mg/l                    |
|   | Fresh water               | 0.635 mg/l                     |
|   | Marine sediment           | 0.329 mg/kg dry weight (d.w.)  |
|   | Fresh water sediment      | 3.29 mg/kg dry weight (d.w.)   |
|   | Sewage treatment plant    | 100 mg/l                       |
|   | Intermittent use/release  | 0.00635 mg/l                   |

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Equipment should conform to EN 166  
Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Gloves : | Viton® (> 0,6 mm; < 240 min); DIN EN374 |  
| PE laminate (> 0,1 mm; < 240 min); DIN EN374 |

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the

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gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

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 : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Organic vapour type (A)

### SECTION 9: Physical and chemical properties

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

Appearance : liquid  
Colour : in accordance with the product description  
Odour : solvent-like  
Odour Threshold : No data available

pH : Not applicable

Melting point/freezing point : -47.9 - 13.3 °C  
(calculation method (principal components, lowest value))

Boiling point/boiling range : 138 - 141.4 °C (calculation method (principal components, lowest value))

Flash point : 25 °C (calculation method (principal components, lowest value))

Flammability (solid, gas) : Static-accumulating flammable liquid., Combustible Solids

Upper explosion limit / Upper flammability limit : 6.6 %(V) (calculation method (principal components, highest value))

Lower explosion limit / Lower flammability limit : 1.1 %(V) (calculation method (principal components, highest value))

Vapour pressure : 8.21 hPa (calculation method (principal components, highest value))  
(20 °C)

Relative vapour density : No data available

Relative density : No data available

Density : 1 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : immiscible, partly soluble  
Solubility in other solvents : Description: miscible with most organic solvents

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|  |   |   |
|--|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: 2.77 - 3.15 (calculation method (principal components, highest value))                                       |
| Auto-ignition temperature              | : | 465 - 525 °C (calculation method (principal components, highest value))   |
| Decomposition temperature              | : | No decomposition if stored and applied as directed.<br>Hazardous decomposition products formed under fire conditions. |
| Viscosity<br>Viscosity, kinematic      | : | > 20.5 mm <sup>2</sup> /s (40 °C)   |
| Explosive properties                   | : | Not applicable  |
| Oxidizing properties                   | : | Sustains combustion   |

### 9.2 Other information

|                   |   |         |
|-------------------|---|---------|
| No data available | : |         |
| VOC               | : | 580 g/l |

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## 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.<br><br>Vapours may form explosive mixture with air. |
|---------------------|---|---|

### 10.4 Conditions to avoid

|                     |   |                          |
|---------------------|---|--------------------------|
| Conditions to avoid | : | Heat, flames and sparks. |
|---------------------|---|--------------------------|

### 10.5 Incompatible materials

|                    |   |   |
|--------------------|---|---|
| Materials to avoid | : | Incompatible with strong acids and bases. |
|--------------------|---|---|

### 10.6 Hazardous decomposition products

Adequate ventilation is required.  
Heating can release vapours which can be ignited.  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Not classified based on available information.

##### Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

##### Components:

##### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Acute oral toxicity : LD50 Oral (Rat):  $\geq$  8,700 mg/kg

Acute inhalation toxicity : LC50 (Rat): 27.14 mg/l  
Test atmosphere: vapour

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

##### **n-butyl acetate:**

Acute oral toxicity : LD50 Oral (Rat):  $\geq$  10,760 mg/kg

Acute dermal toxicity : LD50 (Rabbit):  $\geq$  5,000 mg/kg

##### **2-methoxy-1-methylethyl acetate:**

Acute oral toxicity : LD50 Oral (Rat):  $>$  2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat):  $>$  5 mg/l  
Test atmosphere: vapour

LC0 (Rat): 2000 ppm  
Exposure time: 3 h

Acute dermal toxicity : LD50 (Rabbit):  $>$  2,000 mg/kg

##### **Skin corrosion/irritation**

Causes skin irritation.

##### Product:

Remarks : May cause skin irritation and/or dermatitis.

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### Components:

#### reaction mixture of ethylbenzene, m-xylene and p-xylene:

Result : irritating

#### Serious eye damage/eye irritation

Causes serious eye irritation.

### Product:

Remarks : May cause irreversible eye damage.

### Components:

#### reaction mixture of ethylbenzene, m-xylene and p-xylene:

Result : Eye irritation

#### Respiratory or skin sensitisation

##### Skin sensitisation

Not classified based on available information.

##### Respiratory sensitisation

Not classified based on available information.

### Product:

Remarks : Causes sensitisation.

### Components:

#### mixture of benzotriazole:

Result : Probability or evidence of skin sensitisation in humans

#### mixture of sterically composed sebacates:

Result : May cause sensitisation by skin contact.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

### Components:

#### mixture of sterically composed sebacates:

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

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### **STOT - single exposure**

May cause respiratory irritation.

#### **Components:**

##### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Assessment : May cause respiratory irritation.

##### **n-butyl acetate:**

Assessment : May cause drowsiness or dizziness.

##### **2-methoxy-1-methylethyl acetate:**

Assessment : May cause drowsiness or dizziness.

### **STOT - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

#### **Components:**

##### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Assessment : May cause damage to organs through prolonged or repeated exposure.

### **Aspiration toxicity**

Not classified based on available information.

#### **Components:**

##### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

May be fatal if swallowed and enters airways.

### **Further information**

#### **Product:**

Remarks : Solvents may degrease the skin.

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Components:**

##### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Toxicity to fish : LC50 (Fish):  $\geq 1 - 10$  mg/l

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)):  $\geq 1 - 10$  mg/l

Toxicity to microorganisms : EC50 (Bacteria):  $\geq 1 - 100$  mg/l

##### **n-butyl acetate:**

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Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l  
EC50 (Desmodesmus subspicatus (green algae)): >= 647.7 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : IC50 (Tetrahymena pyriformis): 356 mg/l  
Exposure time: 40 h

### **2-methoxy-1-methylethyl acetate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l  
Exposure time: 96 h

NOEC : 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 : 408 mg/l  
Exposure time: 48 h

Toxicity to fish (Chronic toxicity) : EC10: 47.5 mg/l

### **mixture of benzotriazole:**

#### **Ecotoxicology Assessment**

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

### **mixture of sterically composed sebacates:**

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

## **12.2 Persistence and degradability**

### **Components:**

#### **reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Biodegradability : Remarks: Readily biodegradable.

Photodegradation : Remarks: Decomposes rapidly in contact with light.

#### **n-butyl acetate:**

Biodegradability : Result: Biodegradable  
Biodegradation: 83 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

Stability in water : Degradation half life: 78 d  
pH: 8  
Remarks: Hydrolyses slowly.

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Photodegradation : Remarks: Decomposes rapidly in contact with light.

**2-methoxy-1-methylethyl acetate:**

Biodegradability : Remarks: Readily biodegradable.

### 12.3 Bioaccumulative potential

**Components:**

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Bioaccumulation : Bioconcentration factor (BCF): 25.9  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 2.77 - 3.15

**n-butyl acetate:**

Bioaccumulation : Bioconcentration factor (BCF): 15  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1.81

**2-methoxy-1-methylethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 1.2 (20 °C)  
pH: 6.8

**mixture of sterically composed sebacates:**

Partition coefficient: n-octanol/water : log Pow: 2.37 - 2.77  
pH: 7

### 12.4 Mobility in soil

**Components:**

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Distribution among environmental compartments : Koc: 537, log Koc: 2.73  
Remarks: Moderately mobile in soils  
The product evaporates from soil.

Stability in soil : Dissipation time: 23 d  
Percentage dissipation: 50 % (DT50)

### 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.

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### 12.6 Other adverse effects

**Product:**

Endocrine disrupting potential : 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.

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

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

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## SECTION 14: Transport information

### 14.1 UN number

ADN : UN 1263  
ADR : UN 1263  
RID : UN 1263  
IMDG : UN 1263  
IATA : UN 1263

### 14.2 UN proper shipping name

ADN : PAINT  
ADR : PAINT  
RID : PAINT  
IMDG : PAINT  
IATA : Paint

### 14.3 Transport hazard class(es)

ADN : 3

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**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

#### 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 : no

#### ADR

Environmentally hazardous : no

#### RID

Environmentally hazardous : no

#### IMDG

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Marine pollutant : no

### 14.6 Special precautions for user

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

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

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

Volatile organic compounds : Volatile organic compounds (VOC) content: 580 g/l

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

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## SECTION 16: Other information

### Full text of H-Statements

|       |   |  |
|-------|---|--|
| H226  | : | Flammable liquid and vapour.                                       |
| H304  | : | May be fatal if swallowed and enters airways.                      |
| H312  | : | Harmful in contact with skin.                                      |
| H315  | : | Causes skin irritation.  |
| H317  | : | May cause an allergic skin reaction.                               |
| H319  | : | Causes serious eye irritation.                                     |
| H332  | : | Harmful if inhaled.  |
| H335  | : | May cause respiratory irritation.                                  |
| H336  | : | May cause drowsiness or dizziness.                                 |
| H361f | : | Suspected of damaging fertility.                                   |
| H373  | : | May cause damage to organs through prolonged or repeated exposure. |
| H400  | : | Very toxic to aquatic life.  |
| H410  | : | Very toxic to aquatic life with long lasting effects.              |
| H411  | : | Toxic to aquatic life with long lasting effects.                   |

### Full text of other abbreviations

|                 |   |  |
|-----------------|---|--|
| Acute Tox.      | : | Acute toxicity                                     |
| Aquatic Acute   | : | Short-term (acute) aquatic hazard                  |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard                 |
| Asp. Tox.       | : | Aspiration hazard                                  |
| Eye Irrit.      | : | Eye irritation                                     |
| Flam. Liq.      | : | Flammable liquids                                  |
| Repr.           | : | Reproductive toxicity                              |
| Skin Irrit.     | : | Skin irritation                                    |
| Skin Sens.      | : | Skin sensitisation                                 |
| STOT RE         | : | Specific target organ toxicity - repeated exposure |

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STOT SE : Specific target organ toxicity - single exposure  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
2019/1831/EU : Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
2019/1831/EU / TWA : Limit Value - eight hours  
2019/1831/EU / STEL : Short 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; AIIIC - 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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Flam. Liq. 3                      H226  
Skin Irrit. 2                      H315  
Eye Irrit. 2                      H319  
STOT SE 3                      H335  
STOT RE 2                      H373  
Aquatic Chronic 3              H412

#### Classification procedure:

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

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