

# SAFETY DATA SHEET

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

## Carsystem Silicone Remover Water

|         |         |                |                                 |
|---------|---------|----------------|---------------------------------|
| Version |         | Revision Date: | Date of last issue: 19.09.2023  |
| 2.2     | DE / EN | 07.03.2024     | Date of first issue: 02.08.2022 |

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

#### 1.1 Product identifier

Trade name : Carsystem Silicone Remover Water  
Product code : 146.705

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

Use of the Sub- : Cleaning agent, Degreasing agent  
stance/Mixture

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

Company : JASA AG  
Müslistrasse 43  
8957 Spreitenbach  
Schweiz  
  
info@jasa-ag.ch, www.jasa-ag.ch  
  
Telephone : +41 (0)44 431 60 70  
Telefax : +41 (0)44 432 63 17  
  
**Responsible Department** : Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch

#### 1.4 Emergency telephone

Telephone : Tox Info Suisse (STIZ), Tel: 145

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

|                                   |  |
|-----------------------------------|--|
| Flammable liquids, Category 3     | H226: Flammable liquid and vapor.              |
| Serious eye damage, Category 1    | H318: Causes serious eye damage.               |
| Reproductive toxicity, Category 2 | H361d: Suspected of damaging the unborn child. |

#### 2.2 Label elements

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

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.  
H318 Causes serious eye damage.  
H361d Suspected of damaging the unborn child.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

##### **Response:**

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

##### **Disposal:**

P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

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

propan-1-ol  
4-hydroxy-4-methylpentan-2-one

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### 2.3 Other hazards

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

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

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Mixture

#### Components

| Chemical name  | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number     | Classification  | Concentration<br>(% w/w) |
|--|---|---|--------------------------|
| propan-1-ol  | 71-23-8<br>200-746-9<br>603-003-00-0<br>01-2119486761-29  | Flam. Liq. 2; H225<br>Eye Dam. 1; H318<br>STOT SE 3; H336<br>(Central nervous system)   | >= 2,5 - < 10            |
| 4-hydroxy-4-methylpentan-2-one                                     | 123-42-2<br>204-626-7<br>603-016-00-1<br>01-2119473975-21 | Flam. Liq. 3; H226<br>Eye Irrit. 2; H319<br>Repr. 2; H361d<br>STOT SE 3; H335<br>(Respiratory system)<br><br>specific concentration<br>limit<br>Eye Irrit. 2; H319<br>>= 10 % | >= 1 - <= 5              |
| butanone   | 78-93-3<br>201-159-0<br>606-002-00-3<br>01-2119457290-43  | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>(Central nervous system)<br>EUH066   | >= 1 - <= 5              |
| Alcohols, C12-18, ethers with polyethylene glycol mono-Butyl ether | 146340-16-1<br>604-522-5                                  | Skin Irrit. 2; H315<br>Aquatic Acute 1;<br>H400   | >= 0,25 - < 1,5          |

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          | : | First aider needs to protect himself.<br>Remove from exposure, lie down.<br>Take off all contaminated clothing immediately.   |
| If inhaled              | : | Remove to fresh air.<br>Keep patient warm and at rest.<br>If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.                                     |
| In case of skin contact | : | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.<br>If symptoms persist, call a physician.   |
| In case of eye contact  | : | In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>Protect unharmed eye.<br>If symptoms persist, call a physician. |
| If swallowed            | : | Do NOT induce vomiting.<br>Get medical attention immediately.<br>If a person vomits when lying on his back, place him in the recovery position.   |

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

- |       |   |   |
|-------|---|---|
| Risks | : | Causes serious eye damage.<br>Suspected of damaging the unborn child. |
|-------|---|---|

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

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

- |                                       |   |   |
|---------------------------------------|---|---|
| Specific hazards during fire fighting | : | May form explosive mixtures in air.<br>Build-up of dangerous/toxic fumes possible in cases of |
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fire/high temperature.

Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : In the event of fire and/or explosion do not breathe fumes. Use a water spray to cool fully closed containers. 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.

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## SECTION 6: Accidental release measures

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

Personal precautions : Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Avoid contact with skin and eyes. Wear personal protective equipment. Evacuate personnel to safe areas.

### 6.2 Environmental precautions

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.

Do not flush into surface water or sanitary sewer system.

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

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Non-sparking tools should be used. Shovel into suitable container for disposal.

Do not flush with water.

### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Local/Total ventilation : Ensure adequate ventilation.
- Advice on safe handling : Avoid formation of aerosol.  
Keep container closed when not in use.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapors or spray mist.  
Avoid contact with skin and eyes.
- Advice on protection against fire and explosion : Vapors may form explosive mixtures with air. Vapors are heavier than air and may spread along floors. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

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

- Requirements for storage areas and containers : Store in original container. Store in cool place.
- Further information on storage conditions : Protect from frost, heat and sunlight.
- Advice on common storage : Keep away from food and drink.  
Incompatible with oxidizing agents.
- Storage class (TRGS 510) : 3

#### 7.3 Specific end use(s)

- Specific use(s) : No data available

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

| Components                     | CAS-No.                              | Value type (Form of exposure) | Control parameters             | Basis       |
|--------------------------------|--------------------------------------|-------------------------------|--------------------------------|-------------|
| 4-hydroxy-4-methylpentan-2-one | 123-42-2                             | AGW                           | 20 ppm<br>96 mg/m <sup>3</sup> | DE TRGS 900 |
|                                | Peak-limit category: 2;(I)           |                               |                                |             |
|                                | Further information: Skin absorption |                               |                                |             |
|                                |                                      | MAK                           | 20 ppm                         | DE DFG MAK  |

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|          |   |      |                                  |                |
|----------|---|------|----------------------------------|----------------|
|          |   |      | 96 mg/m <sup>3</sup>             |                |
|          | Further information: Danger of absorption through the skin, Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C |      |                                  |                |
| butanone | 78-93-3   | TWA  | 200 ppm<br>600 mg/m <sup>3</sup> | 2000/39/EC     |
|          | Further information: Indicative   |      |                                  |                |
|          |   | STEL | 300 ppm<br>900 mg/m <sup>3</sup> | 2000/39/EC     |
|          | Further information: Indicative   |      |                                  |                |
|          |   | AGW  | 200 ppm<br>600 mg/m <sup>3</sup> | DE TRGS<br>900 |
|          | Peak-limit category: 1;(l)  |      |                                  |                |
|          | Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child   |      |                                  |                |
|          |   | MAK  | 200 ppm<br>600 mg/m <sup>3</sup> | DE DFG MAK     |
|          | Further information: Danger of absorption through the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed  |      |                                  |                |

### Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters            | Sampling time                                       | Basis         |
|----------------|---------|-------------------------------|---|---------------|
| butanone       | 78-93-3 | 2-butanone: 2 mg/l<br>(Urine) | Immediately after exposure or after working hours   | TRGS 903      |
|                |         | 2-butanon: 5 mg/l<br>(Urine)  | Immediately after exposition or after working hours | DE DFG<br>BAT |

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

| Substance name                 | End Use   | Routes of exposure | Potential health effects   | Value                  |
|--------------------------------|-----------|--------------------|----------------------------|------------------------|
| propan-1-ol                    | Workers   | Inhalation         | Long-term systemic effects | 268 mg/m <sup>3</sup>  |
|                                | Workers   | Inhalation         | Acute systemic effects     | 1723 mg/m <sup>3</sup> |
|                                | Workers   | Skin contact       | Long-term systemic effects | 136 mg/kg              |
|                                | Consumers | Inhalation         | Long-term systemic effects | 80 mg/m <sup>3</sup>   |
|                                | Consumers | Inhalation         | Acute systemic effects     | 1036 mg/m <sup>3</sup> |
|                                | Consumers | Skin contact       | Long-term systemic effects | 81 mg/kg               |
|                                | Consumers | Oral               | Long-term systemic effects | 61 mg/kg               |
| 4-hydroxy-4-methylpentan-2-one | Workers   | Inhalation         | Long-term systemic effects | 59,2 mg/m <sup>3</sup> |
|                                | Workers   | Inhalation         | Acute local effects        | 240 mg/m <sup>3</sup>  |
|                                | Workers   | Skin contact       | Long-term systemic         | 840 mg/kg              |

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|          |           |              | effects                    |                        |
|----------|-----------|--------------|----------------------------|------------------------|
|          | Consumers | Inhalation   | Long-term systemic effects | 10,4 mg/m <sup>3</sup> |
|          | Consumers | Skin contact | Long-term systemic effects | 60 mg/kg               |
|          | Consumers | Oral         | Long-term systemic effects | 3 mg/kg                |
| butanone | Workers   | Inhalation   | Long-term systemic effects | 600 mg/m <sup>3</sup>  |
|          | Workers   | Skin contact | Long-term systemic effects | 1161 mg/kg             |
|          | Consumers | Inhalation   | Long-term systemic effects | 106 mg/m <sup>3</sup>  |
|          | Consumers | Skin contact | Long-term systemic effects | 412 mg/kg              |
|          | Consumers | Oral         | Long-term systemic effects | 31 mg/kg               |

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

| Substance name                 | Environmental Compartment    | Value        |
|--------------------------------|------------------------------|--------------|
| propan-1-ol                    | Fresh water                  | 10 mg/l      |
|                                | Sea water                    | 1 mg/l       |
|                                | Sewage treatment plant (STP) | 96 mg/l      |
|                                | Fresh water sediment         | 22,8 mg/kg   |
|                                | Sea sediment                 | 2,28 mg/kg   |
| 4-hydroxy-4-methylpentan-2-one | Soil                         | 2,2 mg/kg    |
|                                | Fresh water                  | 2 mg/l       |
|                                | Sea water                    | 0,2 mg/l     |
|                                | Sewage treatment plant (STP) | 10 mg/l      |
|                                | Fresh water sediment         | 9,06 mg/kg   |
| butanone                       | Sea sediment                 | 0,91 mg/kg   |
|                                | Soil                         | 0,63 mg/kg   |
|                                | Fresh water                  | 55,8 mg/l    |
|                                | Sea water                    | 55,8 mg/l    |
|                                | Sewage treatment plant (STP) | 709 mg/l     |
|                                | Fresh water sediment         | 284,74 mg/kg |
|                                | Sea sediment                 | 284,7 mg/kg  |
|                                | Soil                         | 22,5 mg/kg   |

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

### Hand protection

Material : butyl-rubber  
Rate of permeability : > 480 min  
Glove thickness :  $\geq$  0,7 mm  
Directive : DIN EN 374  
Protective index : Class 6

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The data



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about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Preventive skin protection

Skin and body protection : Please wear suitable protective clothing, e.g. made of cotton or heat-resistant synthetic fibres.  
Long sleeved clothing

Respiratory protection : Apply technical measures to comply with the occupational exposure limits.  
Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

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

Protective measures : Avoid contact with the skin and the eyes.  
Avoid contact with skin and clothing.  
Handle in accordance with good industrial hygiene and safety practice.  
Follow the skin protection plan.

When using do not eat, drink or smoke.

### Environmental exposure controls

Soil : Avoid subsoil penetration.

Water : Do not flush into surface water or sanitary sewer system.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Color : off-white

Odor : characteristic

Melting point/range : not determined

Boiling point/boiling range : not determined

Upper explosion limit / Upper : 13,5 %(V)

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flammability limit

Lower explosion limit / Lower  
flammability limit : 1,4 %(V)

Flash point : 23 °C

pH : 6 - 7  
Concentration: 100 %

Viscosity  
Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Solubility(ies)  
Water solubility : completely miscible

Partition coefficient: n-  
octanol/water : not determined

Vapor pressure : 105 hPa (20 °C)

Density : 0,96 g/cm<sup>3</sup> (20 °C)

### 9.2 Other information

Explosives : Not explosive  
In use, may form flammable/explosive vapour-air mixture.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if used as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Vapors may form explosive mixture with air.

### 10.4 Conditions to avoid

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Conditions to avoid : Extremes of temperature and direct sunlight.  
Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified due to lack of data.

#### Components:

##### **propan-1-ol:**

Acute oral toxicity : LD50 Oral (Rat): ca. 8.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 33,8 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rabbit): 4.032 mg/kg  
Method: OECD Test Guideline 402

##### **4-hydroxy-4-methylpentan-2-one:**

Acute oral toxicity : LD50 Oral (Rat): 3.002 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat): >= 7,6 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD0 (Rat): > 1.875 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

##### **butanone:**

Acute oral toxicity : LD50 Oral (Rat): 3.460 mg/kg  
Method: OECD Test Guideline 423

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Acute dermal toxicity : LD50 Dermal (Rabbit): 5.000 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

Not classified due to lack of data.

### **Components:**

#### **Alcohols, C12-18, ethers with polyethylene glycol mono-Butyl ether:**

Result : Skin irritation

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

Causes serious eye damage.

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified due to lack of data.

#### **Respiratory sensitization**

Not classified due to lack of data.

#### **Germ cell mutagenicity**

Not classified due to lack of data.

#### **Carcinogenicity**

Not classified due to lack of data.

#### **Reproductive toxicity**

Suspected of damaging the unborn child.

### **Components:**

#### **4-hydroxy-4-methylpentan-2-one:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

#### **STOT-single exposure**

Not classified due to lack of data.

### **Components:**

#### **4-hydroxy-4-methylpentan-2-one:**

Assessment : May cause respiratory irritation.

#### **butanone:**

Assessment : May cause drowsiness or dizziness.

#### **STOT-repeated exposure**

Not classified due to lack of data.

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### Aspiration toxicity

Not classified due to lack of data.

## 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.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **propan-1-ol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4.555 mg/l  
End point: mortality  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.644 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Method: DIN 38412

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 9.170 mg/l  
End point: Growth rate  
Exposure time: 48 h

Toxicity to microorganisms : IC50 (Bacteria): > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 100 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

##### **4-hydroxy-4-methylpentan-2-one:**

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 100 mg/l  
End point: mortality  
Exposure time: 96 h  
Method: OECD Test Guideline 203

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- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 100 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### butanone:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2.993 mg/l  
End point: mortality  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 308 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 1.972 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### Ecotoxicology Assessment

- Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### Alcohols, C12-18, ethers with polyethylene glycol mono-Butyl ether:

#### Ecotoxicology Assessment

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : This product has no known ecotoxicological effects.

## 12.2 Persistence and degradability

### Components:

#### propan-1-ol:

- Biodegradability : Biodegradation: 83 - 92 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

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### 4-hydroxy-4-methylpentan-2-one:

Biodegradability : Result: rapidly biodegradable  
Biodegradation: 98,51 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301A

### 12.3 Bioaccumulative potential

#### Components:

##### propan-1-ol:

Bioaccumulation : Bioconcentration factor (BCF): 0,88

Partition coefficient: n-octanol/water : Pow: 1,6 (25 °C)  
log Pow: 0,2 (25 °C)  
pH: 7

##### 4-hydroxy-4-methylpentan-2-one:

Partition coefficient: n-octanol/water : log Pow: -0,09 (20 °C)

##### butanone:

Partition coefficient: n-octanol/water : log Pow: 0,3 (40 °C)  
pH: 7

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

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

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components 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 : No data available

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : Do not dispose of with domestic refuse.  
Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.
- In accordance with local and national regulations.
- Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of in accordance with local regulations.
- Waste Code : The following Waste Codes are only suggestions:  
07 07 04, other organic solvents, washing liquids and mother liquors

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

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

#### 14.2 UN proper shipping name

- ADN : PAINT RELATED MATERIAL  
ADR : PAINT RELATED MATERIAL  
RID : PAINT RELATED MATERIAL  
IMDG : PAINT RELATED MATERIAL  
IATA : Paint related material

#### 14.3 Transport hazard class(es)

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



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**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

Marine pollutant : no

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### 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 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

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

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : 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. P5c FLAMMABLE LIQUIDS

Water hazard class (Germany) : WGK 1 slightly water endangering  
Classification according to AwSV, Annex 1 (5.2)

Regulation (EC) No. 648/2004, as amended : less than 5 %: Non-ionic surfactants

#### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

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### 15.2 Chemical Safety Assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

### SECTION 16: Other information

#### Full text of H-Statements

|        |   |
|--------|---|
| H225   | : Highly flammable liquid and vapor.                    |
| H226   | : Flammable liquid and vapor.                           |
| H315   | : Causes skin irritation.                               |
| H318   | : Causes serious eye damage.                            |
| H319   | : Causes serious eye irritation.                        |
| H335   | : May cause respiratory irritation.                     |
| H336   | : May cause drowsiness or dizziness.                    |
| H361d  | : Suspected of damaging the unborn child.               |
| H400   | : Very toxic to aquatic life.                           |
| EUH066 | : Repeated exposure may cause skin dryness or cracking. |

#### Full text of other abbreviations

|                   |  |
|-------------------|--|
| Aquatic Acute     | : Short-term (acute) aquatic hazard  |
| Eye Dam.          | : Serious eye damage   |
| Eye Irrit.        | : Eye irritation   |
| Flam. Liq.        | : Flammable liquids  |
| Repr.             | : Reproductive toxicity  |
| Skin Irrit.       | : Skin irritation  |
| 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 |
| DE DFG BAT        | : Germany. MAK BAT Annex XIII  |
| DE DFG MAK        | : Germany. MAK BAT Annex IIa   |
| DE TRGS 900       | : Germany. TRGS 900 - Occupational exposure limit values.  |
| TRGS 903          | : c - Biological limit values  |
| 2000/39/EC / TWA  | : Limit Value - eight hours  |
| 2000/39/EC / STEL | : Short term exposure limit  |
| DE DFG MAK / MAK  | : MAK value  |
| DE TRGS 900 / AGW | : Time Weighted Average  |

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

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- Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

|              |       |
|--------------|-------|
| Flam. Liq. 3 | H226  |
| Eye Dam. 1   | H318  |
| Repr. 2      | H361d |

#### Classification procedure:

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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