

# SAFETY DATA SHEET

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



## AIR INTAKE AND THROTTLE VALVE CLEANER - 500 ML

|         |                |                |                                 |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number:    | Date of last issue: 17.07.2023  |
| 9.1     | 18.10.2023     | 10681748-00012 | Date of first issue: 03.11.2011 |

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

#### 1.1 Product identifier

Trade name : AIR INTAKE AND THROTTLE VALVE CLEANER - 500 ML

Product code : 5861113500

Unique Formula Identifier (UFI) : PHCE-T05P-Y009-GNUR

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

Use of the Sub-stance/Mixture : Professional use product  
Additive

Recommended restrictions on use : Not applicable

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

Company : Adolf Wuerth GmbH & Co. KG  
Reinhold-Würth-Str. 12-17  
74653 Künzelsau

Telephone : +49 794015 0

Telefax : +49 794015 10 00

E-mail address of person responsible for the SDS : isi@wuerth.com

#### 1.4 Emergency telephone number

+49 (0)6132 – 84463

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

|                             |   |
|-----------------------------|---|
| Aerosols, Category 1        | H222: Extremely flammable aerosol.<br>H229: Pressurised container: May burst if heated. |
| Skin irritation, Category 2 | H315: Causes skin irritation.   |

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|--|--|
| Eye irritation, Category 2                                   | H319: Causes serious eye irritation.                   |
| Specific target organ toxicity - single exposure, Category 3 | H336: May cause drowsiness or dizziness.               |
| Long-term (chronic) aquatic hazard, Category 2               | H411: 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 : H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic 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.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P273 Avoid release to the environment.

#### **Response:**

P391 Collect spillage.

#### **Storage:**

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

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

Acetone  
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane  
Propan-2-ol  
1-Methoxy-2-propanol

### 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.

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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) |
|---|--|---|--------------------------|
| Acetone   | 67-64-1<br>200-662-2<br>606-001-00-8<br>01-2119471330-49 | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>EUH066   | >= 30 - < 50             |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | Not Assigned<br><br>01-2119475514-35                     | Flam. Liq. 2; H225<br>Skin Irrit. 2; H315<br>STOT SE 3; H336<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411 | >= 30 - < 50             |
| Propan-2-ol   | 67-63-0<br>200-661-7<br>603-117-00-0<br>01-2119457558-25 | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336   | >= 1 - < 10              |
| 1-Methoxy-2-propanol  | 107-98-2<br>203-539-1<br>603-064-00-3                    | Flam. Liq. 3; H226<br>STOT SE 3; H336   | >= 1 - < 10              |
| 3-Butoxypropan-2-ol   | 5131-66-8<br>225-878-4<br>603-052-00-8                   | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319   | >= 1 - < 10              |
| Substances with a workplace exposure limit :                      |  |   |                          |
| Carbon dioxide  | 124-38-9<br>204-696-9                                    | Press. Gas Liquefied<br>gas; H280   | >= 1 - < 10              |

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 : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Get medical attention.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.

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

- Risks : Causes skin irritation.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

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

- Treatment : Treat symptomatically and supportively.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

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

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Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Flash back possible over considerable distance.  
Vapours may form explosive mixtures with air.  
Exposure to combustion products may be a hazard to health.  
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

Hazardous combustion products : Carbon oxides

### 5.3 Advice for firefighters

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

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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## SECTION 6: Accidental release measures

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

Personal precautions : Remove all sources of ignition.  
Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Non-sparking tools should be used.  
Soak up with inert absorbent material.  
Suppress (knock down) gases/vapours/mists with a water spray jet.  
For large spills, provide dyking or other appropriate contain-

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ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 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

- |                         |   |   |
|-------------------------|---|---|
| Technical measures      | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.   |
| Local/Total ventilation | : | If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.  |
| Advice on safe handling | : | For outdoor use only<br>Do not get on skin or clothing.<br>Avoid breathing spray.<br>Do not swallow.<br>Do not get in eyes.<br>Wash skin thoroughly after handling.<br>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment<br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>Take precautionary measures against static discharges.<br>Take care to prevent spills, waste and minimize release to the environment.<br>Do not spray on an open flame or other ignition source. |
| Hygiene measures        | : | If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.  |

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

- |   |   |  |
|---|---|--|
| Requirements for storage areas and containers | : | Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Do not pierce or burn, even after use. Keep |
|---|---|--|

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cool. Protect from sunlight.

Advice on common storage : Do not store with the following product types:  
Self-reactive substances and mixtures  
Organic peroxides  
Oxidizing agents  
Flammable solids  
Pyrophoric liquids  
Pyrophoric solids  
Self-heating substances and mixtures  
Substances and mixtures, which in contact with water, emit flammable gases  
Explosives  
Gases

Storage class (TRGS 510) : 2B

Recommended storage temperature : 0 - 40 °C

### 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       |
|---|--|-------------------------------|------------------------------------|-------------|
| Acetone   | 67-64-1  | TWA                           | 500 ppm<br>1.210 mg/m <sup>3</sup> | 2000/39/EC  |
|   | Further information: Indicative  |                               |                                    |             |
|   |  | AGW                           | 500 ppm<br>1.200 mg/m <sup>3</sup> | DE TRGS 900 |
|   | Peak-limit: excursion factor (category): 2;(I)   |                               |                                    |             |
|   | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |                               |                                    |             |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | Not Assigned   | AGW                           | 700 mg/m <sup>3</sup>              | DE TRGS 900 |
|   | Peak-limit: excursion factor (category): 2;(II)  |                               |                                    |             |
|   | Further information: Group exposure limit for hydrocarbon solvent mixtures   |                               |                                    |             |
| Propan-2-ol   | 67-63-0  | AGW                           | 200 ppm<br>500 mg/m <sup>3</sup>   | DE TRGS 900 |
|   | Peak-limit: excursion factor (category): 2;(II)  |                               |                                    |             |
|   | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |                               |                                    |             |

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|                      |  |      |                                      |                |
|----------------------|--|------|--------------------------------------|----------------|
| 1-Methoxy-2-propanol | 107-98-2   | STEL | 150 ppm<br>568 mg/m <sup>3</sup>     | 2000/39/EC     |
|                      | Further information: Identifies the possibility of significant uptake through the skin, Indicative                                       |      |                                      |                |
|                      |  | TWA  | 100 ppm<br>375 mg/m <sup>3</sup>     | 2000/39/EC     |
|                      | Further information: Identifies the possibility of significant uptake through the skin, Indicative                                       |      |                                      |                |
|                      |  | AGW  | 100 ppm<br>370 mg/m <sup>3</sup>     | DE TRGS<br>900 |
|                      | Peak-limit: excursion factor (category): 2;(I)   |      |                                      |                |
|                      | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |      |                                      |                |
| Carbon dioxide       | 124-38-9   | TWA  | 5.000 ppm<br>9.000 mg/m <sup>3</sup> | 2006/15/EC     |
|                      | Further information: Indicative  |      |                                      |                |
|                      |  | AGW  | 5.000 ppm<br>9.100 mg/m <sup>3</sup> | DE TRGS<br>900 |
|                      | Peak-limit: excursion factor (category): 2;(II)  |      |                                      |                |

### Biological occupational exposure limits

| Substance name       | CAS-No.  | Control parameters                       | Sampling time                                     | Basis    |
|----------------------|----------|--|---|----------|
| Acetone              | 67-64-1  | Acetone: 80 mg/l<br>(Urine)              | Immediately after exposure or after working hours | TRGS 903 |
| Propan-2-ol          | 67-63-0  | Acetone: 25 mg/l<br>(Blood)              | Immediately after exposure or after working hours | TRGS 903 |
|                      |          | Acetone: 25 mg/l<br>(Urine)              | Immediately after exposure or after working hours | TRGS 903 |
| 1-Methoxy-2-propanol | 107-98-2 | 1-Methoxypropan-2-ol: 15 mg/l<br>(Urine) | Immediately after exposure or after working hours | TRGS 903 |

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

| Substance name | End Use   | Exposure routes | Potential health effects   | Value                      |
|----------------|-----------|-----------------|----------------------------|----------------------------|
| Propan-2-ol    | Workers   | Inhalation      | Long-term systemic effects | 500 mg/m <sup>3</sup>      |
|                | Workers   | Skin contact    | Long-term systemic effects | 888 mg/kg<br>bw/day        |
|                | Consumers | Inhalation      | Long-term systemic effects | 89 mg/m <sup>3</sup>       |
|                | Consumers | Skin contact    | Long-term systemic effects | 319 mg/kg<br>bw/day        |
|                | Consumers | Ingestion       | Long-term systemic effects | 26 mg/kg<br>bw/day         |
|                | Acetone   | Workers         | Inhalation                 | Long-term systemic effects |

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|   |           |              |                            |                         |
|---|-----------|--------------|----------------------------|-------------------------|
|   | Workers   | Inhalation   | Acute local effects        | 2420 mg/m <sup>3</sup>  |
|   | Workers   | Skin contact | Long-term systemic effects | 186 mg/kg bw/day        |
|   | Consumers | Inhalation   | Long-term systemic effects | 200 mg/m <sup>3</sup>   |
|   | Consumers | Skin contact | Long-term systemic effects | 62 mg/kg bw/day         |
|   | Consumers | Ingestion    | Long-term systemic effects | 62 mg/kg bw/day         |
| 3-Butoxypropan-2-ol   | Workers   | Inhalation   | Long-term systemic effects | 270,5 mg/m <sup>3</sup> |
|   | Workers   | Skin contact | Long-term systemic effects | 44 mg/kg bw/day         |
|   | Consumers | Inhalation   | Long-term systemic effects | 33,8 mg/m <sup>3</sup>  |
|   | Consumers | Skin contact | Long-term systemic effects | 16 mg/kg bw/day         |
|   | Consumers | Ingestion    | Long-term systemic effects | 8,75 mg/kg bw/day       |
| 1-Methoxy-2-propanol  | Workers   | Inhalation   | Long-term systemic effects | 369 mg/m <sup>3</sup>   |
|   | Workers   | Inhalation   | Acute systemic effects     | 553,5 mg/m <sup>3</sup> |
|   | Workers   | Inhalation   | Acute local effects        | 553,5 mg/m <sup>3</sup> |
|   | Workers   | Skin contact | Long-term systemic effects | 183 mg/kg bw/day        |
|   | Consumers | Inhalation   | Long-term systemic effects | 43,9 mg/m <sup>3</sup>  |
|   | Consumers | Skin contact | Long-term systemic effects | 78 mg/kg bw/day         |
|   | Consumers | Ingestion    | Long-term systemic effects | 33 mg/kg bw/day         |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | Workers   | Inhalation   | Long-term systemic effects | 2035 mg/m <sup>3</sup>  |
|   | Workers   | Skin contact | Long-term systemic effects | 773 mg/kg bw/day        |
|   | Consumers | Inhalation   | Long-term systemic effects | 608 mg/m <sup>3</sup>   |
|   | Consumers | Skin contact | Long-term systemic effects | 699 mg/kg bw/day        |
|   | Consumers | Ingestion    | Long-term systemic effects | 699 mg/kg bw/day        |

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

| Substance name | Environmental Compartment | Value      |
|----------------|---------------------------|------------|
| Propan-2-ol    | Fresh water               | 140,9 mg/l |
|                | Marine water              | 140,9 mg/l |
|                | Intermittent use/release  | 140,9 mg/l |
|                | Sewage treatment plant    | 2251 mg/l  |

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|                      |                            |                              |
|----------------------|----------------------------|------------------------------|
|                      | Fresh water sediment       | 552 mg/kg dry weight (d.w.)  |
|                      | Marine sediment            | 552 mg/kg dry weight (d.w.)  |
|                      | Soil                       | 28 mg/kg dry weight (d.w.)   |
|                      | Oral (Secondary Poisoning) | 160 mg/kg food               |
| Acetone              | Fresh water                | 10,6 mg/l                    |
|                      | Marine water               | 1,06 mg/l                    |
|                      | Intermittent use/release   | 21 mg/l                      |
|                      | Sewage treatment plant     | 100 mg/l                     |
|                      | Fresh water sediment       | 30,4 mg/kg dry weight (d.w.) |
|                      | Marine sediment            | 3,04 mg/kg dry weight (d.w.) |
|                      | Soil                       | 29,5 mg/kg dry weight (d.w.) |
| 3-Butoxypropan-2-ol  | Fresh water                | 0,525 mg/l                   |
|                      | Marine water               | 0,0525 mg/l                  |
|                      | Sewage treatment plant     | 10 mg/l                      |
|                      | Fresh water sediment       | 2,36 mg/kg                   |
|                      | Marine sediment            | 0,236 mg/kg                  |
|                      | Soil                       | 0,16 mg/kg                   |
| 1-Methoxy-2-propanol | Fresh water                | 10 mg/l                      |
|                      | Marine water               | 1 mg/l                       |
|                      | Freshwater - intermittent  | 100 mg/l                     |
|                      | Sewage treatment plant     | 100 mg/l                     |
|                      | Fresh water sediment       | 52,3 mg/kg dry weight (d.w.) |
|                      | Marine sediment            | 5,2 mg/kg dry weight (d.w.)  |
|                      | Soil                       | 4,59 mg/kg dry weight (d.w.) |

### 8.2 Exposure controls

#### Engineering measures

Minimize workplace exposure concentrations.

If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.

#### Personal protective equipment

Eye/face protection : Wear the following personal protective equipment:  
Safety goggles  
Equipment should conform to DIN EN 166

Hand protection

Material : Nitrile rubber  
Break through time : < 480 min  
Glove thickness : 0,45 mm

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- Directive : Equipment should conform to DIN EN 374
- Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
- Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Wear the following personal protective equipment:  
If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic protective clothing.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
- Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.  
Equipment should conform to DIN EN 137
- Filter type : Self-contained breathing apparatus
- 

### SECTION 9: Physical and chemical properties

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

- Physical state : aerosol
- Propellant : Carbon dioxide
- Colour : colourless
- Odour : characteristic
- Odour Threshold : No data available
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : 55,8 °C

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Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit / Upper flammability limit : 14,3 %(V)

Lower explosion limit / Lower flammability limit : 1,8 %(V)

Flash point : -18 °C  
Flash point is only valid for liquid portion in the aerosol can.

Auto-ignition temperature : 270 °C

Decomposition temperature : No data available

pH : substance/mixture is non-soluble (in water)

Viscosity  
Viscosity, kinematic : Not applicable

Solubility(ies)  
Water solubility : insoluble

Partition coefficient: n-octanol/water : Not applicable

Vapour pressure : Not applicable

Density : 0,751 g/cm<sup>3</sup> (20 °C)  
Method: DIN 51757

Relative vapour density : Not applicable

Particle characteristics  
Particle size : Not applicable

### 9.2 Other information

Explosives : Not explosive

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Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : Not applicable

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Extremely flammable aerosol.  
Vapours may form explosive mixture with air.  
If the temperature rises there is danger of the vessels bursting  
due to the high vapor pressure.  
Can react with strong oxidizing agents.

#### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

#### 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

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Components:

##### Acetone:

Acute oral toxicity : LD50 (Rat): 5.800 mg/kg

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Acute inhalation toxicity : LC50 (Rat): 76 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 7.426 mg/kg

### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 25,2 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

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

### **Propan-2-ol:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 25 mg/l  
Exposure time: 6 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

### **1-Methoxy-2-propanol:**

Acute oral toxicity : LD50 (Rat): 4.016 mg/kg

Acute inhalation toxicity : LC50 (Mouse): < 22,2 mg/l  
Exposure time: 6 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **3-Butoxypropan-2-ol:**

Acute oral toxicity : LD50 (Rat): 3.300 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 3,52 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhalation toxicity

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

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### Carbon dioxide:

Acute inhalation toxicity : LC50 (Rat): 40000 - 50000 ppm  
Exposure time: 30 min  
Test atmosphere: vapour

### Skin corrosion/irritation

Causes skin irritation.

### Components:

#### Acetone:

Assessment : Repeated exposure may cause skin dryness or cracking.

### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

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

### Propan-2-ol:

Species : Rabbit  
Result : No skin irritation

### 1-Methoxy-2-propanol:

Species : Rabbit  
Result : No skin irritation

### 3-Butoxypropan-2-ol:

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

### Serious eye damage/eye irritation

Causes serious eye irritation.

### Components:

#### Acetone:

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

### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

Species : Rabbit  
Result : No eye irritation

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### Propan-2-ol:

Species : Rabbit  
Result : Irritation to eyes, reversing within 21 days

### 1-Methoxy-2-propanol:

Species : Rabbit  
Result : No eye irritation

### 3-Butoxypropan-2-ol:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritation to eyes, reversing within 7 days

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

### Components:

#### Acetone:

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Result : negative

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

Test Type : Buehler Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Result : negative

#### Propan-2-ol:

Test Type : Buehler Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : negative

#### 1-Methoxy-2-propanol:

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Result : negative

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### **3-Butoxypropan-2-ol:**

|                 |                           |
|-----------------|---------------------------|
| Test Type       | : Buehler Test            |
| Exposure routes | : Skin contact            |
| Species         | : Guinea pig              |
| Method          | : OECD Test Guideline 406 |
| Result          | : negative                |

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **Acetone:**

|                       |   |
|-----------------------|---|
| Genotoxicity in vitro | : Test Type: In vitro mammalian cell gene mutation test<br>Result: negative |
|-----------------------|---|

|  |
|--|
| Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative |
|--|

|  |
|--|
| Test Type: Chromosome aberration test in vitro<br>Result: negative |
|--|

|                      |  |
|----------------------|--|
| Genotoxicity in vivo | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)<br>Species: Mouse<br>Application Route: Ingestion<br>Result: negative |
|----------------------|--|

#### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

|                       |  |
|-----------------------|--|
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative |
|-----------------------|--|

|                      |  |
|----------------------|--|
| Genotoxicity in vivo | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Method: OPPTS 870.5395<br>Result: negative |
|----------------------|--|

#### **Propan-2-ol:**

|                       |  |
|-----------------------|--|
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative |
|-----------------------|--|

|   |
|---|
| Test Type: In vitro mammalian cell gene mutation test<br>Result: negative |
|---|

|                      |  |
|----------------------|--|
| Genotoxicity in vivo | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)<br>Species: Mouse<br>Application Route: Intraperitoneal injection |
|----------------------|--|

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Result: negative

### 1-Methoxy-2-propanol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: Chromosome aberration test in vitro  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Test Type: In vitro sister chromatid exchange assay in mam-  
malian cells  
Result: equivocal

Test Type: DNA damage and repair, unscheduled DNA syn-  
thesis in mammalian cells (in vitro)  
Method: OECD Test Guideline 482  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo  
cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

### 3-Butoxypropan-2-ol:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Result: negative

Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Result: negative

### Carcinogenicity

Not classified based on available information.

### Components:

#### Acetone:

Species : Mouse  
Application Route : Skin contact  
Exposure time : 424 days  
Result : negative

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### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

Species : Mouse  
Application Route : Skin contact  
Exposure time : 102 weeks  
Result : negative

### Propan-2-ol:

Species : Rat  
Application Route : inhalation (vapour)  
Exposure time : 104 weeks  
Method : OECD Test Guideline 451  
Result : negative

### 1-Methoxy-2-propanol:

Species : Rat  
Application Route : inhalation (vapour)  
Exposure time : 2 Years  
Method : OECD Test Guideline 453  
Result : negative

### 3-Butoxypropan-2-ol:

Species : Rat  
Application Route : inhalation (vapour)  
Exposure time : 2 Years  
Method : OECD Test Guideline 453  
Result : negative  
Remarks : Based on data from similar materials

### Reproductive toxicity

Not classified based on available information.

### Components:

#### Acetone:

Effects on fertility : Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)

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Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

### **Propan-2-ol:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative

### **1-Methoxy-2-propanol:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: inhalation (vapour)  
Method: OECD Test Guideline 416  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative

### **3-Butoxypropan-2-ol:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the  
reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Skin contact  
Method: OECD Test Guideline 414  
Result: negative

### **STOT - single exposure**

May cause drowsiness or dizziness.

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### Components:

#### **Acetone:**

Assessment : May cause drowsiness or dizziness.

#### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

Assessment : May cause drowsiness or dizziness.

#### **Propan-2-ol:**

Assessment : May cause drowsiness or dizziness.

#### **1-Methoxy-2-propanol:**

Assessment : May cause drowsiness or dizziness.

### **STOT - repeated exposure**

Not classified based on available information.

### **Repeated dose toxicity**

### Components:

#### **Acetone:**

Species : Rat  
NOAEL : 900 mg/kg  
LOAEL : 1.700 mg/kg  
Application Route : Ingestion  
Exposure time : 90 Days

Species : Rat  
NOAEL : 45 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 8 Weeks

#### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

Species : Rat  
NOAEL : > 20 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 13 Weeks

#### **Propan-2-ol:**

Species : Rat  
NOAEL : 12,5 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 104 Weeks

#### **1-Methoxy-2-propanol:**

Species : Rat

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NOAEL : 919 mg/kg  
Application Route : Ingestion  
Exposure time : 35 Days

Species : Rat  
NOAEL : 1,1 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 2 yr  
Method : OECD Test Guideline 453

Species : Rabbit  
NOAEL : 1.838 mg/kg  
Application Route : Skin contact  
Exposure time : 90 Days

### **3-Butoxypropan-2-ol:**

Species : Rat  
NOAEL : 350 mg/kg  
LOAEL : 1.000 mg/kg  
Application Route : Ingestion  
Exposure time : 13 Weeks  
Method : OECD Test Guideline 408

### **Aspiration toxicity**

Not classified based on available information.

### **Components:**

#### **Acetone:**

The substance or mixture causes concern owing to the assumption that it causes a human aspiration toxicity hazard.

#### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

## 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:

##### **Acetone:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.540 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 8.800 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 7.000 mg/l  
Exposure time: 96 h
- Toxicity to microorganisms : EC50 : 61.150 mg/l  
Exposure time: 30 min  
Method: ISO 8192
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC:  $\geq$  79 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

##### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

- Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): 8,2 mg/l  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4,5 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials
- Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 3,1 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials
- NOELR (Pseudokirchneriella subcapitata (green algae)): 0,5 mg/l  
Exposure time: 72 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 2,6 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### Propan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
Exposure time: 24 h

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 1.050 mg/l  
Exposure time: 16 h

### 1-Methoxy-2-propanol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 6.812 mg/l  
Exposure time: 96 h  
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 23.300 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Skeletonema costatum (marine diatom)): 6.745 mg/l  
Exposure time: 72 h  
Method: ISO 10253

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

### 3-Butoxypropan-2-ol:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 560 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

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  
Exposure time: 96 h

NOEC (Pseudokirchneriella subcapitata (green algae)): 560 mg/l  
Exposure time: 96 h

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Toxicity to microorganisms : EC50 : > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### **Carbon dioxide:**

Toxicity to fish : NOEC (Lepomis macrochirus (Bluegill sunfish)): > 100 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

## 12.2 Persistence and degradability

### Components:

#### **Acetone:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 91 %  
Exposure time: 28 d

#### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 77,05 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

#### **Propan-2-ol:**

Biodegradability : Result: rapidly degradable

BOD/COD : BOD: 1.19 (BOD5)  
COD: 2.23  
BOD/COD: 53 %

#### **1-Methoxy-2-propanol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 96 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E

#### **3-Butoxypropan-2-ol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 90 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E

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### 12.3 Bioaccumulative potential

#### Components:

##### **Acetone:**

Partition coefficient: n-octanol/water : log Pow: -0,27 - -0,23

##### **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane:**

Partition coefficient: n-octanol/water : log Pow: 4  
Remarks: Based on data from similar materials

##### **Propan-2-ol:**

Partition coefficient: n-octanol/water : log Pow: 0,05

##### **1-Methoxy-2-propanol:**

Partition coefficient: n-octanol/water : log Pow: < 1

##### **3-Butoxypropan-2-ol:**

Partition coefficient: n-octanol/water : log Pow: 1,2

##### **Carbon dioxide:**

Partition coefficient: n-octanol/water : log Pow: 0,83

### 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.

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### 12.7 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Dispose of in accordance with local regulations.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.  
Do not dispose of waste into sewer.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Empty containers retain residue and can be dangerous.  
Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.  
If not otherwise specified: Dispose of as unused product.  
Please ensure aerosol cans are sprayed completely empty (including propellant)
- Waste Code : The following Waste Codes are only suggestions:
- used product  
16 05 04, gases in pressure containers (including halons)  
containing hazardous substances
  - unused product  
16 05 04, gases in pressure containers (including halons)  
containing hazardous substances
  - uncleaned packagings  
15 01 10, packaging containing residues of or contaminated by hazardous substances
- Acc. Packaging Act properly emptied packaging:  
Properly emptied, non-contaminated packaging of non-hazardous products can be supplied to a system for the collection of sales packaging.
- 

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN : UN 1950

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**ADR** : UN 1950  
**RID** : UN 1950  
**IMDG** : UN 1950  
**IATA** : UN 1950

### 14.2 UN proper shipping name

**ADN** : AEROSOLS  
**ADR** : AEROSOLS  
**RID** : AEROSOLS  
**IMDG** : AEROSOLS  
(Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)  
**IATA** : Aerosols, flammable

### 14.3 Transport hazard class(es)

|             | Class | Subsidiary risks |
|-------------|-------|------------------|
| <b>ADN</b>  | : 2   | 2.1              |
| <b>ADR</b>  | : 2   | 2.1              |
| <b>RID</b>  | : 2   | 2.1              |
| <b>IMDG</b> | : 2.1 |                  |
| <b>IATA</b> | : 2.1 |                  |

### 14.4 Packing group

**ADN**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1

**ADR**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)

**RID**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Hazard Identification Number : 23  
Labels : 2.1

**IMDG**  
Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U

**IATA (Cargo)**

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Packing instruction (cargo aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

### IATA (Passenger)

Packing instruction (passenger aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

### 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

Remarks : Not applicable for product as supplied.

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

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to

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|  |   |   |
|--|---|---|
|  |   | determine whether an entry is applicable to the placing on the market or not. |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (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  |
| Regulation (EC) 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  |
| Regulation (EU) 2019/1148 on the marketing and use of explosives precursors  | : |   |

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Acetone (ANNEX II)

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

|     |  | Quantity 1 | Quantity 2 |
|-----|--|------------|------------|
| E2  | ENVIRONMENTAL HAZARDS  | 200 t      | 500 t      |
| P3b | FLAMMABLE AEROSOLS   | 5.000 t    | 50.000 t   |
| 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) | 2.500 t    | 25.000 t   |

Water hazard class (German) : WGK 2 obviously hazardous to water

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- ny) Classification according to AwSV, Annex 1 (5.2)
- TA Luft List (Germany) :
- 5.2.1: Total dust:  
Not applicable
  - 5.2.2: Inorganic substances in powdered form:  
Not applicable
  - 5.2.4: Inorganic substances in gaseous form:  
Not applicable
  - 5.2.5: Organic Substances:  
Not applicable
  - 5.2.7.1.1: Carcinogenic substance:  
Not applicable
  - 5.2.7.1.1: Quartz fine dust PM4:  
Not applicable
  - 5.2.7.1.1: Formaldehyde:  
Not applicable
  - 5.2.7.1.1: fibres:  
Not applicable
  - 5.2.7.1.2: Germ cell mutagens:  
Not applicable
  - 5.2.7.1.3: Substances toxic to reproduction:  
Not applicable
  - 5.2.7.2: Poorly degradable, easily enrichable and highly toxic organic substances:  
Not applicable
- Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 93,75 %, 750 g/l

### Other regulations:

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

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

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

- Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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### Full text of H-Statements

|        |   |
|--------|---|
| H225   | : Highly flammable liquid and vapour.                   |
| H226   | : Flammable liquid and vapour.                          |
| H280   | : Contains gas under pressure; may explode if heated.   |
| H304   | : May be fatal if swallowed and enters airways.         |
| H315   | : Causes skin irritation.                               |
| H319   | : Causes serious eye irritation.                        |
| H336   | : May cause drowsiness or dizziness.                    |
| H411   | : Toxic to aquatic life with long lasting effects.      |
| EUH066 | : Repeated exposure may cause skin dryness or cracking. |

### Full text of other abbreviations

|                   |  |
|-------------------|--|
| Aquatic Chronic   | : Long-term (chronic) aquatic hazard   |
| Asp. Tox.         | : Aspiration hazard  |
| Eye Irrit.        | : Eye irritation   |
| Flam. Liq.        | : Flammable liquids  |
| Press. Gas        | : Gases under pressure   |
| 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 |
| 2006/15/EC        | : Europe. Indicative occupational exposure limit values  |
| DE TRGS 900       | : Germany. TRGS 900 - Occupational exposure limit values.  |
| TRGS 903          | : TRGS 903 - Biological limit values   |
| 2000/39/EC / TWA  | : Limit Value - eight hours  |
| 2000/39/EC / STEL | : Short term exposure limit  |
| 2006/15/EC / TWA  | : Limit Value - eight hours  |
| 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 - 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

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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; TECl - 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

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

|                   |            |
|-------------------|------------|
| Aerosol 1         | H222, H229 |
| Skin Irrit. 2     | H315       |
| Eye Irrit. 2      | H319       |
| STOT SE 3         | H336       |
| Aquatic Chronic 2 | H411       |

### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| 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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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