

**Safety Data Sheet**

according to UK REACH Regulation

**E003 Bremsenreiniger 500ml**

Revision date: 17.08.2021

Product code: 1903783

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

E003 Bremsenreiniger 500ml

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Cleaner

**1.3. Details of the supplier of the safety data sheet**

|               |                               |                               |
|---------------|-------------------------------|-------------------------------|
| Company name: | TUNAP GmbH & Co. KG           |                               |
| Street:       | Buergermeister-Seidl-Straße 2 |                               |
| Place:        | D-82515 Wolfratshausen        |                               |
| Telephone:    | +49 (0) 8171/1600-0           | Telefax: +49 (0) 8171/1600-40 |
| e-mail:       | sdb@tunap.com                 |                               |
| Internet:     | www.tunap.com                 |                               |

**1.4. Emergency telephone number:** +49 (0) 8171 1600-0 during business hours 7am – 5pm (Central European Time, CET)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Hazard categories:

Aerosol: Aerosol 2

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Flammable aerosol.

Pressurised container: May burst if heated.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

2-Propanol

Acetone

Hydrocarbons C7-C9, iso-alkanes

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, &lt;2% aromatics

**Signal word:** Warning**Pictograms:****Hazard statements**

|      |   |
|------|---|
| H223 | Flammable aerosol.                          |
| H229 | Pressurised container: May burst if heated. |
| H315 | Causes skin irritation.                     |

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- H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

- P102 Keep out of reach of children.  
P101 If medical advice is needed, have product container or label at hand.  
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.  
P260 Do not breathe spray.  
P280 Wear eye protection/face protection.  
P271 Use only outdoors or in a well-ventilated area.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of contents/container according to the official regulations.

**2.3. Other hazards**

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.  
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

| CAS No       | Chemical name  |              |                  | Quantity    |
|--------------|--|--------------|------------------|-------------|
|              | EC No  | Index No     | REACH No         |             |
|              | GHS Classification   |              |                  |             |
| 67-63-0      | 2-Propanol   |              |                  | 25 - < 50 % |
|              | 200-661-7  | 603-117-00-0 | 01-2119457558-25 |             |
|              | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336  |              |                  |             |
| 90622-56-3   | Hydrocarbons C7-C9, iso-alkanes  |              |                  | 20 - < 25 % |
|              | 921-728-3  |              | 01-2119471305-42 |             |
|              | Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411 |              |                  |             |
| 67-64-1      | Acetone  |              |                  | 20 - < 25 % |
|              | 200-662-2  | 606-001-00-8 | 01-2119471330-49 |             |
|              | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066                                     |              |                  |             |
| 1174921-73-3 | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics                              |              |                  | 3 - < 5 %   |
|              | 927-241-2  |              | 01-2119471843-32 |             |
|              | Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 3; H226 H336 H304 H412 EUH066              |              |                  |             |
| 124-38-9     | carbon dioxide   |              |                  | 3 - < 5 %   |
|              | 204-696-9  |              |                  |             |
|              |  |              |                  |             |

Full text of H and EUH statements: see section 16.

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**Specific Conc. Limits, M-factors and ATE**

| CAS No       | EC No     | Chemical name   | Quantity    |
|--------------|-----------|---|-------------|
|              |           | Specific Conc. Limits, M-factors and ATE  |             |
| 67-63-0      | 200-661-7 | 2-Propanol  | 25 - < 50 % |
|              |           | inhalation: LC50 = 47,5 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 5280 mg/kg  |             |
| 90622-56-3   | 921-728-3 | Hydrocarbons C7-C9, iso-alkanes   | 20 - < 25 % |
|              |           | inhalation: LC50 = > 21 mg/l (vapours); inhalation: LC50 = >9,4 mg/l (dusts or mists); dermal: LD50 = > 2200 - 2500 mg/kg; oral: LD50 = > 7100 - 7800 mg/kg |             |
| 67-64-1      | 200-662-2 | Acetone   | 20 - < 25 % |
|              |           | inhalation: LC50 = 76 mg/l (vapours); dermal: LD50 = 20000 mg/kg; oral: LD50 = 5800 mg/kg   |             |
| 1174921-73-3 | 927-241-2 | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics   | 3 - < 5 %   |
|              |           | inhalation: LC50 = > 4951 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 15000 mg/kg   |             |

**Labelling for contents according to Regulation (EC) No 648/2004**

15 % - &lt; 30 % aliphatic hydrocarbons.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

**After inhalation**

Remove person to fresh air and keep comfortable for breathing. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with skin**

Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with eyes**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

**4.2. Most important symptoms and effects, both acute and delayed**

Headache, nausea, dizziness, fatigue, skin irritation

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Water fog. Foam. Carbon dioxide (CO<sub>2</sub>). Extinguishing powder.

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO<sub>2</sub>, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.

**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard

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area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Danger of bursting container.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Wear personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

**6.3. Methods and material for containment and cleaning up****Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

**6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Observe instructions for use.  
Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.  
When using do not eat, drink, smoke, sniff.  
Wear personal protection equipment (refer to section 8).  
In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

**Advice on general occupational hygiene**

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

**Further information on handling**

Avoid contact with skin and eyes.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Observe legal regulations and provisions.

**Hints on joint storage**

Do not store together with: Oxidizing agents. Pyrophoric or self-heating substances. Food and feedingstuffs.

**Further information on storage conditions**

Protect from frost. Protect from direct sunlight. Store in a cool dry place. Observe legal regulations and provisions.

**7.3. Specific end use(s)**

No information available.

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**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

| CAS No   | Substance      | ppm   | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|----------|----------------|-------|-------------------|-----------|---------------|--------|
| 67-64-1  | Acetone        | 500   | 1210              |           | TWA (8 h)     | WEL    |
|          |                | 1500  | 3620              |           | STEL (15 min) | WEL    |
| 124-38-9 | Carbon dioxide | 5000  | 9150              |           | TWA (8 h)     | WEL    |
|          |                | 15000 | 27400             |           | STEL (15 min) | WEL    |
| 67-63-0  | Propan-2-ol    | 400   | 999               |           | TWA (8 h)     | WEL    |
|          |                | 500   | 1250              |           | STEL (15 min) | WEL    |

**DNEL/DMEL values**

| CAS No                   | Substance   |                |          |                  |
|--------------------------|---|----------------|----------|------------------|
| DNEL type                |   | Exposure route | Effect   | Value            |
| 90622-56-3               | Hydrocarbons C7-C9, iso-alkanes                                     |                |          |                  |
| Worker DNEL, long-term   |   | inhalation     | systemic | 2035 mg/m³       |
| Worker DNEL, long-term   |   | dermal         | systemic | 773 mg/kg bw/day |
| Consumer DNEL, long-term |   | inhalation     | systemic | 608 mg/m³        |
| Consumer DNEL, long-term |   | dermal         | systemic | 699 mg/kg bw/day |
| Consumer DNEL, long-term |   | oral           | systemic | 699 mg/kg bw/day |
| 1174921-73-3             | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics |                |          |                  |
| Worker DNEL, long-term   |   | inhalation     | systemic | 871 mg/m³        |
| Worker DNEL, long-term   |   | dermal         | systemic | 77 mg/kg bw/day  |
| Consumer DNEL, long-term |   | inhalation     | systemic | 185 mg/m³        |
| Consumer DNEL, long-term |   | dermal         | systemic | 46 mg/kg bw/day  |
| Consumer DNEL, long-term |   | oral           | systemic | 46 mg/kg bw/day  |

**Additional advice on limit values**

- a no restriction
- b End of exposure or end of shift
- c at long-term exposure:
- d before next shift

blood (B)  
Urine (U)

**8.2. Exposure controls****Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Suitable eye protection: Tightly sealed safety glasses.  
DIN EN 166

**Hand protection**

Protect skin by using skin protective cream. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to

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chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber) Breakthrough time: 480min

Thickness of the glove material 0,45 mm

EN ISO 374

**Skin protection**

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

When exceeding the relevant workplace exposure limits, note the following:

Suitable respiratory protective equipment: Combination filter device (DIN EN 141)..

Filtering device with filter or ventilator filtering device of type: AX

Observe the wear time limits as specified by the manufacturer.

Observe legal regulations and provisions.

**Environmental exposure controls**

Observe legal regulations and provisions.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                 |              |
|-----------------|--------------|
| Physical state: | liquid       |
| Colour:         | colourless   |
| Odour:          | solvent like |

**Test method****Changes in the physical state**

Melting point/freezing point: not determined

Boiling point or initial boiling point and boiling range: 55 °C

Flash point: -17 °C

**Flammability**

Solid/liquid: not applicable

Gas: not applicable

Lower explosion limits: 0,7 vol. %

Upper explosion limits: 14,3 vol. %

**Self-ignition temperature**

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

pH-Value (at 20 °C): DIN 19268

Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water: not determined

Vapour pressure: not determined

Density (at 20 °C): 0,755 g/cm<sup>3</sup> DIN 51757

Relative vapour density: not determined

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**9.2. Other information****Information with regard to physical hazard classes**

Oxidizing properties

Not oxidising.

**Other safety characteristics**

Solid content:

not determined

Evaporation rate:

not determined

**Further Information**

Data apply to technical substance: Relative density, Colour, Odour, Viscosity, pH.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

**10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Take precautionary measures against static discharges.

**10.5. Incompatible materials**

Oxidizing agents. Pyrophoric or self-heating substances.

**10.6. Hazardous decomposition products**Incomplete combustion and thermolysis gases of different toxicity can occur. In the case of hydrocarbonaceous products such as CO, CO<sub>2</sub>, aldehydes and soot. These can be very dangerous if they are inhaled in high concentrations or in enclosed spaces.**Further information**

Do not mix with other chemicals.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**Acute toxicity**

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

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| CAS No       | Chemical name   |                          |         |                     |  |
|--------------|---|--------------------------|---------|---------------------|--|
|              | Exposure route  | Dose                     | Species | Source              | Method                                   |
| 67-63-0      | 2-Propanol  |                          |         |                     |  |
|              | oral  | LD50 5280 mg/kg          | Rat     |                     |  |
|              | dermal  | LD50 > 2000 mg/kg        | Rabbit  |                     |  |
|              | inhalation (4 h) vapour   | LC50 47,5 mg/l           | Rat     |                     |  |
| 90622-56-3   | Hydrocarbons C7-C9, iso-alkanes                                     |                          |         |                     |  |
|              | oral  | LD50 > 7100 - 7800 mg/kg | Rat     | Study report (1961) | OECD Guideline 401                       |
|              | dermal  | LD50 > 2200 - 2500 mg/kg | Rabbit  | Study report (1961) | Standard acute method, applying 4 differ |
|              | inhalation (4 h) vapour   | LC50 > 21 mg/l           | Rat     | Study report (1985) | OECD Guideline 403                       |
|              | inhalation (4 h) aerosol  | LC50 >9,4 mg/l           | Rat     |                     |  |
| 67-64-1      | Acetone   |                          |         |                     |  |
|              | oral  | LD50 5800 mg/kg          | Rat     |                     |  |
|              | dermal  | LD50 20000 mg/kg         | Rabbit  |                     |  |
|              | inhalation (4 h) vapour   | LC50 76 mg/l             | Rat     |                     |  |
| 1174921-73-3 | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics |                          |         |                     |  |
|              | oral  | LD50 > 15000 mg/kg       | Rat     | Study report (1977) | OECD Guideline 423                       |
|              | dermal  | LD50 > 5000 mg/kg        | Rabbit  | Study report (1993) | OECD Guideline 402                       |
|              | inhalation (4 h) vapour   | LC50 > 4951 mg/l         | Rat     |                     |  |

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

No indication of human carcinogenicity.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

**STOT-single exposure**

May cause drowsiness or dizziness. (2-Propanol; Hydrocarbons C7-C9, iso-alkanes; Acetone)

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

No information available.



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**SECTION 12: Ecological information****12.1. Toxicity**

The product is not: Ecotoxic.

| CAS No       | Chemical name   |               |           |         |                                     |   |
|--------------|---|---------------|-----------|---------|-------------------------------------|---|
|              | Aquatic toxicity  | Dose          | [h]   [d] | Species | Source                              | Method                                  |
| 67-63-0      | 2-Propanol  |               |           |         |                                     |   |
|              | Acute fish toxicity   | LC50<br>mg/l  | 9640      | 96 h    | Pimephales promelas                 |   |
|              | Acute algae toxicity  | ErC50<br>mg/l | > 100     | 72 h    | Desmodesmus subspicatus             |   |
|              | Acute crustacea toxicity  | EC50<br>mg/l  | > 100     | 48 h    | Daphnia magna                       |   |
| 90622-56-3   | Hydrocarbons C7-C9, iso-alkanes                                     |               |           |         |                                     |   |
|              | Acute fish toxicity   | LC50<br>mg/l  | 1000      | 96 h    | Oncorhynchus mykiss                 | SIDS Initial Assessment Report For SIAM |
|              | Acute algae toxicity  | ErC50<br>mg/l | 1000      | 72 h    | Pseudokirchneriella subcapitata     | SIDS Initial Assessment Report For SIAM |
|              | Acute crustacea toxicity  | EC50<br>mg/l  | 1000      | 48 h    | Daphnia magna                       | Publication (1986)                      |
|              | Fish toxicity   | NOEC<br>mg/l  | 0,778     | 28 d    | Oncorhynchus mykiss                 | CONCAWE, Brussels, Belgium (2009)       |
|              | Crustacea toxicity  | NOEC<br>mg/l  | 1 mg/l    | 21 d    | Daphnia magna                       | SIDS Initial Assessment Report For SIAM |
| 67-64-1      | Acetone   |               |           |         |                                     |   |
|              | Acute fish toxicity   | LC50<br>mg/l  | 5540      | 96 h    | Oncorhynchus mykiss                 |   |
|              | Acute algae toxicity  | ErC50<br>mg/l | 5000      | 96 h    | Desmodesmus subspicatus             |   |
|              | Acute crustacea toxicity  | EC50<br>mg/l  | 6100      | 48 h    | Daphnia magna                       |   |
| 1174921-73-3 | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics |               |           |         |                                     |   |
|              | Acute fish toxicity   | LC50<br>mg/l  | >1000     | 96 h    | Oncorhynchus mykiss (Rainbow trout) |   |
|              | Acute algae toxicity  | ErC50<br>mg/l | >1000     | 72 h    | Pseudokirchneriella subcapitata     |   |
|              | Acute crustacea toxicity  | EC50<br>mg/l  | >1000     | 48 h    | Daphnia magna                       |   |
|              | Fish toxicity   | NOEC<br>mg/l  | 0,182     | 28 d    | Oncorhynchus mykiss                 | CONCAWE, Brussels, Belgium (2010)       |
|              | Crustacea toxicity  | NOEC<br>mg/l  | 0,317     | 21 d    | Daphnia magna                       | Company report (2010)                   |

**12.2. Persistence and degradability**

The product has not been tested.

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**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

| CAS No  | Chemical name | Log Pow |
|---------|---------------|---------|
| 67-63-0 | 2-Propanol    | 0,05    |
| 67-64-1 | Acetone       | -0,24   |

**BCF**

| CAS No       | Chemical name   | BCF   | Species    | Source               |
|--------------|---|-------|------------|----------------------|
| 1174921-73-3 | Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics | 144,3 | calculated | Other company data ( |

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The product has not been tested.

**12.7. Other adverse effects**

No information available.

**Further information**

Avoid release to the environment.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

**List of Wastes Code - residues/unused products**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

**List of Wastes Code - used product**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

**SECTION 14: Transport information****Land transport (ADR/RID)**

|  |                 |
|--|-----------------|
| <b>14.1. UN number or ID number:</b>     | UN 1950         |
| <b>14.2. UN proper shipping name:</b>    | AEROSOLS        |
| <b>14.3. Transport hazard class(es):</b> | 2               |
| <b>14.4. Packing group:</b>              | -               |
| Hazard label:                            | 2.1             |
| Classification code:                     | 5F              |
| Special Provisions:                      | 190 327 344 625 |
| Limited quantity:                        | 1 L             |
| Excepted quantity:                       | E0              |

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Transport category: 2  
Tunnel restriction code: D

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1  
Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L  
Excepted quantity: E0

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1  
Marine pollutant: no  
Special Provisions: 63, 190, 277, 327, 344, 381, 959  
Limited quantity: 1000 mL  
Excepted quantity: E0  
EmS: F-D, S-U

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS, flammable  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1  
Special Provisions: A145 A167 A802  
Limited quantity Passenger: 30 kg G  
Passenger LQ: Y203  
Excepted quantity: E0  
IATA-packing instructions - Passenger: 203  
IATA-max. quantity - Passenger: 75 kg  
IATA-packing instructions - Cargo: 203  
IATA-max. quantity - Cargo: 150 kg

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Warning: Flammable gases.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

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Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

**Additional information**

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

Aerosol directive (75/324/EEC)

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level

WEL (UK): Workplace Exposure Limits

TWA (EC): Time-Weighted Average

ATE: Acute Toxicity Estimate

STEL (EC) Short Term Exposure Limit

LC50: Lethal Concentration

EC50: half maximal Effective Concentration

ErC50: means EC50 in terms of reduction of growth rate

**Relevant H and EUH statements (number and full text)**

|        |   |
|--------|---|
| H223   | Flammable aerosol.                                    |
| H225   | Highly flammable liquid and vapour.                   |
| H226   | Flammable liquid and vapour.                          |
| H229   | Pressurised container: May burst 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.      |
| H412   | Harmful to aquatic life with long lasting effects.    |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*