

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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Version: 4



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Multi Tech Clear+ 500ml

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

* 1.1. Product identifier

Trade name/designation:

Multi Tech Clear+ 500ml

Article No.:

T214003

UFI:

9P6P-DDS8-5JJ7-J1SW

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

Use of the substance/mixture:

Lubricating agent

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|--|--------------------------|
| Aspiration hazard (<i>Asp. Tox. 1</i>) | H304: May be fatal if swallowed and enters airways. | |
| STOT-single exposure (<i>STOT SE 3</i>) | H336: May cause drowsiness or dizziness. | |
| Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>) | H412: Harmful to aquatic life with long lasting effects. | |
| aerosol dispensers and lighters (<i>Aerosol 1</i>) | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. | |

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* 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark



GHS02

Flame

Signal word: Danger

Hazard statements for physical hazards

| | |
|------|---|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |

Hazard statements for health hazards

| | |
|------|------------------------------------|
| H336 | May cause drowsiness or dizziness. |
|------|------------------------------------|

Hazard statements for environmental hazards

| | |
|------|--|
| H412 | Harmful to aquatic life with long lasting effects. |
|------|--|

Supplemental hazard information

| | |
|--------|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
|--------|---|

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. |
| P261 | Avoid breathing spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |

Precautionary statements Response

| | |
|------|--|
| P312 | Call a POISON CENTER/doctor/ if you feel unwell. |
|------|--|

Precautionary statements Storage

| | |
|-------------|--|
| P405 | Store locked up. |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |

Precautionary statements Disposal

| | |
|------|---|
| P501 | Dispose of contents/container to an appropriate recycling or disposal facility. |
|------|---|

Additional information:

Formation of explosive mixtures possible without adequate ventilation.

2.3. Other hazards

Other adverse effects:

The product does not meet the PBT/vPvB criteria.

The product does not contain any substances with endocrine-disrupting properties.

SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

Additional information:

Impurities, test data or further information may have been taken into account for the classification and labelling of the product. The substances mentioned in this section are listed with their actual, applicable classification!

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This means that for substances listed in Table 3.1 of Annex VI of Regulation (EC) No. 1272/2008 (CLP Regulation), any notes mentioned there have been taken into account for the classification mentioned here. The addition of the highest concentrations listed here may result in a classification. Only if this classification is listed in section 2 does it apply. In all other cases the total concentration is below the classification.

Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers | Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|---|---|-----------------------|
| CAS No.: 109-66-0 EC No.: 203-692-4 Index No.: 601-006-00-1 REACH No.: 01-2119459286-30 | pentane Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336)  Danger EUH066 Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) > 20 ppmV ATE (inhalation, vapour) > 25.3 mg/L Additional information: EUH066 | 20 - < 25 weight-% |

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

* 4.1. Description of first aid measures

General information:

First aider: Pay attention to self-protection! Never give anything by mouth to an unconscious person!

Following inhalation:

Remove person from danger zone. Fresh air supply, consult a doctor in case of complaints. If unconscious but breathing normally, place in recovery position and seek medical advice.

In case of skin contact:

Wash with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician.

After eye contact:

Contact lenses must be removed. Rinse cautiously with water for several minutes. In case of eye irritation consult an ophthalmologist.

Following ingestion:

Rinse mouth thoroughly with water. Do NOT induce vomiting. Drink plenty of water. Immediately call a doctor. If vomiting occurs, keep head low so that stomach contents do not enter the lungs.

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

If applicable, delayed symptoms and effects can be found in section 11. or in the routes of intake under section 4.1. In certain cases, the symptoms of poisoning may only appear after a longer period of time/ after several hours. Irritation to respiratory tract, Cough, Headache, Dizziness, Confusion, Nausea, Vomiting, Aspiration hazard, Pulmonary oedema, Chemical pneumonitis

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet, Foam, Carbon dioxide (CO₂), Dry extinguishing powder

Unsuitable extinguishing media:

Full water jet

* 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon oxides, Sulphur oxides, toxic gases; Heating causes rise in pressure with risk of bursting. Formation of explosive/highly flammable vapour/air mixtures possible.

5.3. Advice for firefighters

Personal protection See section 8

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Do not inhale explosion and combustion gases. Wear self-contained respiratory equipment. Depending on the size of the fire, full protection if necessary. Cool endangered containers with water spray. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

SECTION 6: Accidental release measures

* 6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

In case of spillage or accidental release, to prevent contamination, wear personal protective equipment from section 8. Ensure adequate ventilation, remove sources of ignition. In case of solid or powdery products, avoid dust formation. Leave the danger zone as far as possible, use existing emergency plans if necessary. Keep unprotected persons away. Ensure adequate ventilation. Avoid contact with eyes, skin and inhalation. Avoid: Eye contact, Dermal. If necessary, observe the risk of slipping.

6.1.2. For emergency responders

Personal protection equipment:

Wear personal protection equipment (refer to section 8).

* 6.2. Environmental precautions

Notify emergency services in case of major spills. Prevent entry into sewers, cellars, working pits or other places where gas accumulation could be dangerous. Avoid penetration into surface and ground water as well as into the soil. In case of accidental discharge into drains, inform competent authorities.

* 6.3. Methods and material for containment and cleaning up

For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust). For further information on disposal: see section 13. Pour the collected material into a sealable container.

Other information:

Provide fresh air.

* 6.4. Reference to other sections

For further information on personal protective equipment: see section 8.
For further information on disposal: see section 13.

SECTION 7: Handling and storage

* 7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Ensure good room ventilation. Avoid eye contact. Avoid prolonged or intensive skin contact. Do not eat, drink, smoke or store food in the work area. Observe the information on the label and the instructions for use. Avoid breathing vapours. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Do not use on hot surfaces.

Advices on general occupational hygiene

The usual precautions when handling chemicals must be observed.
Wash hands before breaks and after work. Keep away from food, drink and animal feed. Remove contaminated clothing and protective equipment before entering areas where food will be served.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Store out of reach of unauthorised persons. Do not store the product in passageways and stairways. Store product only in the original packaging and closed. Observe special instructions for aerosols. Observe special storage conditions. Do not store together with oxidising or spontaneously combustible substances. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Keep cool.

Storage class (TRGS 510, Germany): 2B – Aerosol dispensers and lighters

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7.3. Specific end use(s)

Recommendation:

Observe instructions for good working practice and recommendations for risk assessment. Consult hazardous substance information systems, e.g. of the professional associations, the chemical industry or various sectors depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

SECTION 8: Exposure controls/personal protection

* 8.1. Control parameters

8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name | ① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark |
|--------------------------------------|---|--|
| MAK (AT) | pentane CAS No.: 109-66-0 EC No.: 203-692-4 | ② 1,200 ppm (3,600 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert) |
| IOELV (EU) | pentane CAS No.: 109-66-0 EC No.: 203-692-4 | ① 1,000 ppm (3,000 mg/m ³) |
| MAK (AT) | pentane CAS No.: 109-66-0 EC No.: 203-692-4 | ① 600 ppm (1,800 mg/m ³) |
| MAK (AT) | butane CAS No.: 106-97-8 EC No.: 203-448-7 | ① 800 ppm (1,900 mg/m ³) |
| MAK (AT) | butane CAS No.: 106-97-8 EC No.: 203-448-7 | ② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert) |
| MAK (AT) | propane CAS No.: 74-98-6 EC No.: 200-827-9 | ② 2,000 ppm (3,600 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert) |
| MAK (AT) | propane CAS No.: 74-98-6 EC No.: 200-827-9 | ① 1,000 ppm (1,800 mg/m ³) |
| MAK (AT) | isobutane CAS No.: 75-28-5 EC No.: 200-857-2 | ② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./Schicht Momentanwert) |
| MAK (AT) | isobutane CAS No.: 75-28-5 EC No.: 200-857-2 | ① 800 ppm (1,900 mg/m ³) |

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

| Substance name | DNEL value | ① DNEL type ② Exposure route |
|--|-------------------------|---|
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 3,000 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 643 mg/m ³ | ① DNEL Consumer ② Long-term - inhalation, systemic effects |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 432 mg/kg bw/day | ① DNEL worker ② Long-term - dermal, systemic effects |

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| Substance name | DNEL value | ① DNEL type ② Exposure route |
|---|----------------------|---|
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 214 mg/kg bw/ day | ① DNEL Consumer ② Long-term - dermal, systemic effects |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 214 mg/kg bw/ day | ① DNEL Consumer ② Long-term - oral, systemic effects |

| Substance name | PNEC Value | ① PNEC type |
|---|----------------------|--------------------------------------|
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 0.23 mg/L | ① PNEC aquatic, freshwater |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 0.23 mg/L | ① PNEC aquatic, marine water |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 3.6 mg/L | ① PNEC sewage treatment plant |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 1.2 mg/kg bw/ day | ① PNEC sediment, freshwater |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 1.2 mg/kg | ① PNEC sediment, marine water |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 0.55 mg/kg | ① PNEC soil |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 0.88 mg/L | ① PNEC aquatic, intermittent release |

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ensure good ventilation. This can be achieved by local exhaust ventilation or general exhaust air. If this is not sufficient to keep the concentration below the occupational exposure limits (OEL), suitable respiratory protection must be worn. Applies only if exposure limits are listed here. Appropriate assessment methods for verifying the effectiveness of the protective measures taken include metrological and non-measured methods of determination. Such methods are described by e.g. EN 14042, TRGS 402 (Germany). EN 14042 "Workplace atmospheres. Guidance for the application and use of methods and equipment for the determination of chemical and biological agents". TRGS 402 (Germany) "Determining and assessing the hazards of activities involving hazardous substances - Inhalation exposure".

8.2.2. Personal protection equipment

Eye/face protection:

Safety goggles with side shields (EN 166).

Skin protection:

Hand protection:

Chemical-resistant protective gloves (EN ISO 374). Protective gloves made of Neoprene® / polychloroprene (EN ISO 374). Protective gloves made of nitrile (EN ISO 374). Protective gloves in Viton® / in fluoroelastomer (EN ISO 374). Minimum layer thickness in mm: 0.5. Permeation time (breakthrough time) in minutes: 480. The breakthrough times determined according to EN 16523-1 were not carried out under practical conditions. A maximum wearing time corresponding to 50% of the breakthrough time is recommended. Hand protection cream recommended.

Additional information on hand protection - No tests have been carried out. For mixtures, the selection was made to the best of our knowledge and based on the information provided by the ingredients. For substances, the selection was derived from the glove manufacturer's information. Final selection of glove material must be made with consideration of breakthrough times, permeation rates and degradation. The selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. In the case of mixtures, the resistance of glove materials

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cannot be calculated in advance and must therefore be checked before use. The exact breakthrough time of the glove material must be obtained from the protective glove manufacturer and must be observed.

Body protection:

Protective work clothing (e.g. safety shoes EN ISO 20345, long-sleeved work clothing).

Respiratory protection:

BEI exceeding exposure limit values: Filter A2/P2 (EN 14387), Identification colour: brown, white. Observe the wear time limits as specified by the manufacturer.

Other protection measures:

The usual precautions when handling chemicals must be observed. Wash hands before breaks and after work. Keep away from food, drink and animal feed. Remove contaminated clothing and protective equipment before entering areas where food will be served.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Form: Aerosol

Colour: white

Odour: characteristic

flammability: No data available

Safety relevant basis data

| Parameter | Value | at °C | ① Method ② Remark |
|--|--------------------------|-------|--|
| pH | <i>not applicable</i> | | ② insoluble in: Water |
| Melting point | <i>No data available</i> | | |
| Freezing point | <i>No data available</i> | | |
| Initial boiling point and boiling range | <i>No data available</i> | | |
| Flash point | -60 °C | | ② (The flash point of the mixture was not tested, but corresponds to that of the ingredient with the lowest value) |
| Evaporation rate | <i>No data available</i> | | |
| Auto-ignition temperature | <i>not applicable</i> | | ② Aerosol |
| Upper/lower flammability or explosive limits | <i>No data available</i> | | |
| Vapour pressure | 3,900 hPa | 20 °C | ② 8300 hPa (50°C) |
| Vapour density | <i>not applicable</i> | | ② Aerosol |
| Density | 0.65 g/cm ³ | | ② 0,77 g/mL (Active agent) |
| Bulk density | <i>not applicable</i> | | |
| Water solubility | practically insoluble | | |
| Dynamic viscosity | <i>No data available</i> | | |
| Kinematic viscosity | <i>not applicable</i> | | ② Aerosol |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

* 10.1. Reactivity

The product has not been tested.

10.2. Chemical stability

Stable under normal conditions of use and storage.

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10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Heating causes rise in pressure with risk of bursting.

10.5. Incompatible materials

Avoid contact with strong oxidising agents.

10.6. Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

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

| | | |
|--|-------------------|-------------------|
| pentane | CAS No.: 109-66-0 | EC No.: 203-692-4 |
| LD₅₀ oral: >5,000 mg/kg (Rat) | | |
| LD₅₀ dermal: >2,000 mg/kg (Rat) | | |
| LC₅₀ Acute inhalation toxicity (gas): >20 ppmV 4 h (rat) | | |
| LC₅₀ Acute inhalation toxicity (vapour): >25.3 mg/L 4 h (Rat) OECD 403 | | |
| propane | CAS No.: 74-98-6 | EC No.: 200-827-9 |
| LD₅₀ oral: 5,840 mg/kg (Rat) | | |
| LD₅₀ dermal: 13,900 mg/kg (Rabbit) | | |
| LC₅₀ Acute inhalation toxicity (gas): >25 ppmV 4 h (Rat) | | |
| LC₅₀ Acute inhalation toxicity (vapour): ≥50 mg/L 4 h (Rat) | | |

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

* 12.1. Toxicity

| | | |
|--|-------------------|-------------------|
| pentane | CAS No.: 109-66-0 | EC No.: 203-692-4 |
| LC₅₀: 4.26 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i>) | | |
| EC₅₀: 10.7 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) | | |
| EC₅₀: 2.7 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) | | |
| NOEC: 7.51 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) | | |
| NOEC: 7.51 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) | | |
| EC₅₀: 10.7 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) | | |
| propane | CAS No.: 74-98-6 | EC No.: 200-827-9 |
| LC₅₀: 9,640 mg/L 4 d (fish, <i>Pimephales promelas</i>) | | |
| LC₅₀: 0.41 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i>) | | |
| LC₅₀: 49.9 mg/L 4 d (fish) | | |
| EC₅₀: >100 mg/L (Algae/water plant, Bacteria) | | |
| EC₅₀: 0.17 mg/L 3 d (Algae/water plant, <i>Selenastrum capricornutum</i>) | | |
| EC₅₀: 69.43 mg/L 2 d (crustaceans, <i>Daphnia</i>) Calculation with the ECOSAR programme v1.00. | | |
| NOEC: 0.017 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) | | |
| ErC₅₀: 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation with the ECOSAR programme v1.00. | | |
| LOEC: 1,000 mg/L (Algae/water plant, Algae) | | |
| LOEC: 1,000 mg/L (Algae/water plant, Alge) | | |

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* 12.2. Persistence and degradability

| | | |
|-------------------------------------|-------------------|-------------------|
| pentane | CAS No.: 109-66-0 | EC No.: 203-692-4 |
| Biodegradation: Yes, rapidly | | |
| propane | CAS No.: 74-98-6 | EC No.: 200-827-9 |
| Biodegradation: Yes, rapidly | | |
| isobutane | CAS No.: 75-28-5 | EC No.: 200-857-2 |
| Biodegradation: Yes, rapidly | | |

12.3. Bioaccumulative potential

| | | |
|---------------------------------|-------------------|-------------------|
| pentane | CAS No.: 109-66-0 | EC No.: 203-692-4 |
| Log K_{ow}: 3.39 | | |
| propane | CAS No.: 74-98-6 | EC No.: 200-827-9 |
| Log K_{ow}: 1.09 | | |

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

| | | |
|--|-------------------|-------------------|
| pentane | CAS No.: 109-66-0 | EC No.: 203-692-4 |
| Results of PBT and vPvB assessment: — | | |
| propane | CAS No.: 74-98-6 | EC No.: 200-827-9 |
| Results of PBT and vPvB assessment: — | | |
| isobutane | CAS No.: 75-28-5 | EC No.: 200-857-2 |
| Results of PBT and vPvB assessment: — | | |

12.6. Endocrine disrupting properties

No data available

* 12.7. Other adverse effects

water hazard class 2: obviously hazardous to water

SECTION 13: Disposal considerations

* 13.1. Waste treatment methods

The waste codes given are recommendations based on the expected use of this product. Due to the specific use and disposal conditions at the user's site, other waste codes may be assigned under certain circumstances. (2014/955/EU)

Disposal via waste water is not recommended. Observe local regulations. For example, suitable incineration plant. For example, dispose of in a suitable landfill.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

| | |
|------------|---|
| 07 06 99 | Wastes not otherwise specified |
| 16 05 04 * | Gases in pressure containers (including halons) containing hazardous substances |

*: Evidence for disposal must be provided.

Waste code packaging

| | |
|----------|--------------------|
| 15 01 04 | metallic packaging |
|----------|--------------------|

Waste treatment options

Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

Empty containers pose a potential fire and explosion hazard. Do not cut, pierce or weld containers.

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SECTION 14: Transport information

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|--|---|--|---|
| 14.1. UN number or ID number | | | |
| UN 1950 | UN 1950 | UN 1950 | UN 1950 |
| 14.2. UN proper shipping name | | | |
| AEROSOLS | AEROSOLS | AEROSOLS | AEROSOLS |
| 14.3. Transport hazard class(es) | | | |
|  2.1 |  2.1 |  2.1 |  2.1 |
| 14.4. Packing group | | | |
| | | - | |
| 14.5. Environmental hazards | | | |
| No data available | No data available | No data available | No data available |
| 14.6. Special precautions for user | | | |
| Limited quantity (LQ): 1 L Classification code: 5F Tunnel restriction code: (D) Remark: Transport category 2 Persons engaged in the carriage of dangerous goods shall be instructed. Safety regulations shall be observed by all persons involved in the carriage. Precautions shall be taken to prevent damage. | Classification code: - Remark: Persons engaged in the carriage of dangerous goods shall be instructed. Safety regulations shall be observed by all persons involved in the carriage. Precautions shall be taken to prevent damage. | EmS-No.: F-D, S-U Remark: Persons engaged in the carriage of dangerous goods shall be instructed. Safety regulations shall be observed by all persons involved in the carriage. Precautions shall be taken to prevent damage. | Remark: Persons engaged in the carriage of dangerous goods shall be instructed. Safety regulations shall be observed by all persons involved in the carriage. Precautions shall be taken to prevent damage. |

14.7. Maritime transport in bulk according to IMO instruments

The freight is not carried as bulk goods but as general cargo, therefore not applicable. Minimum quantity regulations are not observed here. Hazard number and packaging code on request. Please observe the special provisions.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Observe national regulations/laws on the protection of young people at work (especially the national implementation of Directive 94/33/EC)! Regulation (EC) No 1907/2006, Annex XVII: 2-(2-aminoethylamino)ethanol. Observe national regulations/laws on maternity protection (especially the national implementation of Directive 92/85/EEC)! Observe regulations of the employers' liability insurance association/occupational medicine.

Seveso category III

P3a FLAMMABLE AEROSOLS

Note Appendix I: 11.1

Quantity threshold (in tonnes) for dangerous substances referred to in Article 3(10) for the application of - requirements for lower-tier establishments 150

Quantity threshold (in tonnes) for dangerous substances referred to in Article 3(10) for the application of - requirements for upper-tier establishments 500

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Note Appendix I: 19

Quantity threshold (in tons) for use in lower class farms 50

Quantity threshold (in tons) for use in upper-tier establishments 200

Other regulations (EU):

Hazard categories:

- P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids

Named dangerous substances:

- Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 74.9

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

* 16.1. Indication of changes

| | |
|-------|--|
| 1.1. | Product identifier |
| 2.2. | Label elements |
| 3.2. | Mixtures |
| 4.1. | Description of first aid measures |
| 5.2. | Special hazards arising from the substance or mixture |
| 6.1. | Personal precautions, protective equipment and emergency procedures |
| 6.2. | Environmental precautions |
| 6.3. | Methods and material for containment and cleaning up |
| 6.4. | Reference to other sections |
| 6.5. | Additional information |
| 7.1. | Precautions for safe handling |
| 8.1. | Control parameters |
| 8.2. | Exposure controls |
| 9.1. | Information on basic physical and chemical properties |
| 10.1. | Reactivity |
| 11.1. | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |
| 12.1. | Toxicity |
| 12.2. | Persistence and degradability |
| 12.7. | Other adverse effects |
| 13.1. | Waste treatment methods |
| 14.1. | UN number or ID number |
| 14.5. | Environmental hazards |
| 14.6. | Special precautions for user |
| 14.7. | Maritime transport in bulk according to IMO instruments |
| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture |
| 16.1. | Indication of changes |
| 16.2. | Abbreviations and acronyms |

* 16.2. Abbreviations and acronyms

| | |
|-------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| AGW | Threshold Limit Value |

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| | |
|------------------|---|
| CAS | Chemical Abstracts Service |
| CLP | Classification, Labelling and Packaging |
| DNEL | derived no-effect level |
| EC ₅₀ | Effective Concentration 50% |
| EN | European Standard |
| ES | Exposure scenario |
| EWC | European Waste Catalogue |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| KG | body weight |
| LC ₅₀ | Lethal (fatal) Concentration 50% |
| LD ₅₀ | Lethal (fatal) Dose 50% |
| MAK | Maximum concentration in the workplace air (CH) |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety & Health |
| NOEC | No Observed Effect Concentration |
| OECD | Organisation for Economic Cooperation and Development |
| OEL | Threshold Limit Value |
| OSHA | Occupational Safety & Health Administration |
| PBT | persistent and bioaccumulative and toxic |
| PNEC | Predicted No Effect Concentration |
| REACH | Registration, Evaluation and Authorization of Chemicals |
| RID | Dangerous goods regulations for transport by rail |
| TRGS | Technische Regeln für Gefahrstoffe |
| UN | United Nations |
| VOC | Volatile organic compounds |

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|--|--------------------------|
| Aspiration hazard (<i>Asp. Tox. 1</i>) | H304: May be fatal if swallowed and enters airways. | |
| STOT-single exposure (<i>STOT SE 3</i>) | H336: May cause drowsiness or dizziness. | |
| Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>) | H412: Harmful to aquatic life with long lasting effects. | |
| aerosol dispensers and lighters (<i>Aerosol 1</i>) | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. | |

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

| Hazard statements | |
|---------------------------------|---|
| H225 | Highly flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |
| Supplemental hazard information | |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

16.6. Training advice

No data available

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16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.