# Safety Data Sheet

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

Version number: GHS 1.0 Date of compilation: 2025-01-22

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

**1.1 Product identifier**

**Trade name** **TECWERK MARKIERUNGSSPRAY - 500 ml**

**Unique formula identifier (UFI)** 7Q00-7097-6005-4HE1

**Article number**

2000 354 080 (rot, rouge, rood, czerwony)
2000 354 081 (blau, bleu, blauw, niebieski)
2000 354 082 (grün, vert, groente, zielony)
2000 354 083 (weiß, blanc, wit, białe)
2000 354 084 (leuchtgelb, jaune fluorscent, neon geel, neon żółty)
2000 354 085 (leuchtorange, orange fluorescent, neon oranje, neon pomarańczow)
2000 354 086 (leuchtrot, rouge fluorescent, neon rood, neon czerowny)
2000 354 087 (leuchtpink, rose fluorescent, neon roze, neon różowy)

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

**Relevant identified uses**

General use
Marking paint

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

NORDWEST Handel AG
Robert-Schuman-Str. 17
44263 Dortmund
Germany

Telephone: +49 231 2222-3001
Telefax: +49 231 2222-3099
Website: www.nordwest.com
**e-mail (competent person)** sdb@nordwest.com

**1.4 Emergency telephone number**

**Poison centre**

| Country | Name | Postal code/city | Telephone |
|---|---|---|---|
| Austria | Vergiftungsinformationszentrale (VIZ) | | **+43 (0)1 406 43 43** |
| Germany | Gemeinsamen Giftinformationszentrum (GGIZ) der Laender Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thueringen c/o HELIOS Klinikum Erfurt | 99089 Erfurt | **+49-361-730730** |
| Luxembourg | Poison Centre Luxemburg | | **(+352) 8002 5500** |
| Switzerland | Tox Info Suisse | | **+145, 24h oder +41 44 251 51 51** |

## SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture**

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

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---|---|---|---|---|
| 2.3 | aerosols | 1 | Aerosol 1 | H222,H229 |
| 3.2 | skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| 3.3 | serious eye damage/eye irritation | 2 | Eye Irrit. 2 | H319 |
| 3.8D | specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3 | STOT SE 3 | H336 |
| 3.10 | aspiration hazard | 1 | Asp. Tox. 1 | H304 |
| 4.1C | hazardous to the aquatic environment - chronic hazard | 3 | Aquatic Chronic 3 | H412 |

For full text of abbreviations: see SECTION 16.

**The most important adverse physicochemical, human health and environmental effects**

Spillage and fire water can cause pollution of watercourses.

**2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008 (CLP)**

**Signal word** danger

**Pictograms**

GHS02, GHS07

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

**Precautionary statements**

| | |
|---|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| 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. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P331 | Do NOT induce vomiting. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

**Child-resistant fastening** yes

**Tactile warning of danger** yes

**Hazardous ingredients for labelling** ethyl acetate, Naphtha (petroleum), hydrotreated light, Naphtha (petroleum), hydrotreated heavy, 1-Methoxy-2-propylacetate

### 2.3 Other hazards

**Results of PBT and vPvB assessment**

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

**Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

**Description of the mixture**

| Identifier | Name of substance | Wt% | Classification acc. to GHS | Pictograms | Notes | Specific Conc. Limits |
|---|---|---|---|---|---|---|
| CAS No 106-97-8<br>EC No 203-448-7<br>Index No 601-004-00-0<br>REACH Reg. No 01-2119474691-32-xxxx | butane | 25 – < 50 | Flam. Gas 1B / H221<br>Press. Gas C / H280 |  | C<br>GHS-HC<br>U(b) | |
| CAS No 74-98-6<br>EC No 200-827-9<br>Index No 601-003-00-5<br>REACH Reg. No 01-2119486944-21 | propane | 10 – < 25 | Flam. Gas 1A / H220<br>Press. Gas L / H280 |  | GHS-HC<br>U(c) | |

| Identifier | Name of substance | Wt% | Classification acc. to GHS | Pictograms | Notes | Specific Conc. Limits |
|---|---|---|---|---|---|---|
| CAS No 141-78-6<br>EC No 205-500-4<br>Index No 607-022-00-5<br>REACH Reg. No 01-2119475103-46-xxxx | ethyl acetate | 10 – < 25 | Flam. Liq. 2 / H225<br>Eye Irrit. 2 / H319<br>STOT SE 3 / H336 |  | GHS-HC<br>IOELV | |
| CAS No 64742-49-0<br>EC No 265-151-9<br>Index No 649-328-00-1 | Naphtha (petroleum), hydrotreated light | 5 – < 10 | Flam. Liq. 2 / H225<br>Skin Irrit. 2 / H315<br>STOT SE 3 / H336<br>Asp. Tox. 1 / H304<br>Aquatic Chronic 2 / H411 |  | P(b) | |
| CAS No 64742-48-9<br>EC No 927-241-2<br>Index No 649-327-00-6<br>REACH Reg. No 01-2119471843-32-xxxx | Naphtha (petroleum), hydrotreated heavy | 1 – < 5 | Flam. Liq. 3 / H226<br>STOT SE 3 / H336<br>Asp. Tox. 1 / H304<br>Aquatic Chronic 3 / H412 |  | P(b) | |
| CAS No 108-65-6<br>EC No 203-603-9<br>Index No 607-195-00-7<br>REACH Reg. No 01-2119475791-29-xxxx | 1-Methoxy-2-propylacetate | 1 – < 5 | Flam. Liq. 3 / H226<br>STOT SE 3 / H336 |  | IOELV | |

Notes

C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

IOELV: Substance with a community indicative occupational exposure limit value

P(b): The classification as a carcinogen or mutagen is not required. The substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262- P301 + P310-P331 shall apply

U(b): The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged

U(c): The allocation to the group 'liquefied gas' is based on the physical state in which the gas is packaged

**Remarks**

For full text of abbreviations: see SECTION 16.

## SECTION 4: First aid measures

**4.1 Description of first aid measures**

**General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

**Following inhalation**

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

**Following skin contact**

Wash with plenty of soap and water.

**Following eye contact**

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

**Following ingestion**

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Narcotic effects.

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

none

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**

**Suitable extinguishing media**

Water spray, BC-powder

**Unsuitable extinguishing media**

Water jet

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

**Hazardous combustion products**

Carbon monoxide (CO), Carbon dioxide (CO2)

**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel**

Remove persons to safety.

**For emergency responders**

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

**6.2 Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

**Advice on how to contain a spill**

Covering of drains

**Other information relating to spills and releases**

Place in appropriate containers for disposal. Ventilate affected area.

**6.4 Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

**Recommendations**

**Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation. Use only in well-ventilated areas.

**Advice on general occupational hygiene**

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

**Managing of associated risks**

**Flammability hazards**

Do not spray on an open flame or other ignition source. Protect from sunlight.

**Packaging compatibilities**

Keep only in original container.

**Storage class (LGK) TRGS 510**

LGK 2 B (aerosol dispensers or lighters)

**7.3 Specific end use(s)**

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

**Occupational exposure limit values (Workplace Exposure Limits)**

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation | Source |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DE | butane | 106-97-8 | AGW | 1,000 | 2,400 | 4,000 | 9,600 | | | | TRGS 900 |
| DE | 1-methoxy-2-propyl acetate | 108-65-6 | MAK | 50 | 270 | 50 | 270 | | | | DFG |
| DE | 2-methoxy-1-methylethyl acetate | 108-65-6 | AGW | 50 | 270 | 50 | 270 | | | Y | TRGS 900 |
| DE | ethyl acetate | 141-78-6 | MAK | 200 | 750 | 400 | 1,500 | | | | DFG |
| DE | ethyl acetate | 141-78-6 | AGW | 200 | 730 | 400 | 1,460 | | | Y | TRGS 900 |
| DE | Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | MAK | 50 | 300 | 100 | 600 | | | | DFG |
| DE | propane | 74-98-6 | AGW | 1,000 | 1,800 | 4,000 | 7,200 | | | | TRGS 900 |
| EU | 2-methoxy-1-methylethyl acetate | 108-65-6 | IOELV | 50 | 275 | 100 | 550 | | | H | 2000/39/EC |
| EU | ethyl acetate | 141-78-6 | IOELV | 200 | 734 | 400 | 1,468 | | | | 2017/164/EU |

Notation

| | |
|---|---|
| Ceiling-C | ceiling value is a limit value above which exposure should not occur |
| H | absorbed through the skin |
| STEL | short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) |
| TWA | time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified) |
| Y | a risk of developmental toxicity does not need to be expected if the occupational exposure limit value and the biological limit value (BGW) are adhered to |

**Relevant DNELs of components**

| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|---|---|---|---|---|---|---|
| ethyl acetate | 141-78-6 | DNEL | 1,468 mg/m³ | human, inhalatory | worker (industry) | acute - local effects |
| ethyl acetate | 141-78-6 | DNEL | 1,468 mg/m³ | human, inhalatory | worker (industry) | acute - systemic effects |
| ethyl acetate | 141-78-6 | DNEL | 734 mg/m³ | human, inhalatory | worker (industry) | chronic - local effects |

**Relevant DNELs of components**

| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|---|---|---|---|---|---|---|
| ethyl acetate | 141-78-6 | DNEL | 63 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| ethyl acetate | 141-78-6 | DNEL | 734 mg/m³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | DNEL | 5,306 mg/m³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | DNEL | 13,964 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | DNEL | 871 mg/m³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | DNEL | 77 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| 1-Methoxy-2-propylacetate | 108-65-6 | DNEL | 275 mg/m³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| 1-Methoxy-2-propylacetate | 108-65-6 | DNEL | 550 mg/m³ | human, inhalatory | worker (industry) | acute - local effects |
| 1-Methoxy-2-propylacetate | 108-65-6 | DNEL | 796 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

**Relevant PNECs of components**

| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
|---|---|---|---|---|---|---|
| ethyl acetate | 141-78-6 | PNEC | 0.24 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| ethyl acetate | 141-78-6 | PNEC | 0.024 mg/l | aquatic organisms | marine water | short-term (single instance) |
| ethyl acetate | 141-78-6 | PNEC | 650 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| ethyl acetate | 141-78-6 | PNEC | 1.15 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| ethyl acetate | 141-78-6 | PNEC | 0.115 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| ethyl acetate | 141-78-6 | PNEC | 0.148 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| ethyl acetate | 141-78-6 | PNEC | 1.65 mg/l | aquatic organisms | water | intermittent release |
| 1-Methoxy-2-propylacetate | 108-65-6 | PNEC | 6.35 mg/l | aquatic organisms | water | intermittent release |
| 1-Methoxy-2-propylacetate | 108-65-6 | PNEC | 0.635 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| 1-Methoxy-2-propylacetate | 108-65-6 | PNEC | 0.064 mg/l | aquatic organisms | marine water | short-term (single instance) |
| 1-Methoxy-2-propylacetate | 108-65-6 | PNEC | 100 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| 1-Methoxy-2-propylacetate | 108-65-6 | PNEC | 3.29 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| 1-Methoxy-2-propylacetate | 108-65-6 | PNEC | 0.329 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |

**Relevant PNECs of components**

| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
|---|---|---|---|---|---|---|
| 1-Methoxy-2-propylacetate | 108-65-6 | PNEC | 0.29 $^{mg}/_{kg}$ | terrestrial organisms | soil | short-term (single instance) |

### 8.2 Exposure controls

**Appropriate engineering controls**

General ventilation.

**Individual protection measures (personal protective equipment)**

Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

**Eye/face protection**

Use protective eyewear to guard against splash of liquids.

**Skin protection**

**Hand protection**

Wear protective gloves. (Splash protection)

**Type of material**

NR: natural rubber, latex, FKM: fluoro-elastomer

**Breakthrough times of the glove material**

>480 minutes (permeation: level 6)

**Other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.
Full face mask/half mask/quarter mask (EN 136/140).
Type: AX-P2 (gas filters and combined filters against low-boiling point organic compounds and particles, colour code: Brown/White).

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Physical state** | aerosol (spray aerosol) |
| **Colour** | acc. to product description |
| **Odour** | like solvents |
| **Melting point/freezing point** | not determined |
| **Boiling point or initial boiling point and boiling range** | -161.5 °C at 1,013 hPa |
| **Flammability** | flammable aerosol in accordance with GHS criteria |
| **Lower and upper explosion limit** | 0.6 vol% - 15 vol% |
| **Flash point** | -88.6 °C at 1,013 hPa |
| **Auto-ignition temperature** | >200 °C (auto-ignition temperature (liquids and gases)) |
| **Decomposition temperature** | not relevant |
| **pH (value)** | not determined |
| **Kinematic viscosity** | not relevant |
| **Solubility(ies)** | not determined |
| **Partition coefficient** | |
| Partition coefficient n-octanol/water (log value) | this information is not available |
| Vapour pressure | 4,200 hPa at 20 °C |
| **Density and/or relative density** | |
| Density | 0.6834 – 0.6843 $^{g}/_{ml}$ (calculated value) |
| Relative vapour density | information on this property is not available |

**9.2 Other information**

**Information with regard to physical hazard classes** there is no additional information

**Other safety characteristics**

Temperature class (EU, acc. to ATEX) T3 (maximum permissible surface temperature on the equipment: 200°C)

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

**10.2 Chemical stability**

See below "Conditions to avoid".

**10.3 Possibility of hazardous reactions**

No known hazardous reactions.

**10.4 Conditions to avoid**

Do not spray on an open flame or other ignition source. Keep away from heat.

**Hints to prevent fire or explosion**

Protect from sunlight.

**10.5 Incompatible materials**

Oxidisers

**10.6 Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

**Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**Classification according to GHS (1272/2008/EC, CLP)**

**Acute toxicity**

Shall not be classified as acutely toxic.

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

**Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

**Carcinogenicity**

Shall not be classified as carcinogenic.

**Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

**Specific target organ toxicity - single exposure**

May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure).

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**11.2 Information on other hazards**

There is no additional information.

## SECTION 12: Ecological information

**12.1 Toxicity**

Acc. to 1272/2008/EC: Harmful to aquatic life with long lasting effects.
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 2, obviously hazardous to water (Germany)

**Aquatic toxicity (chronic) of components**

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|---|---|---|---|---|---|
| ethyl acetate | 141-78-6 | EC50 | 2,306 $^{mg}/_{l}$ | aquatic invertebrates | 24 h |
| 1-Methoxy-2-propyl-acetate | 108-65-6 | LC50 | 63.5 $^{mg}/_{l}$ | fish | 14 d |
| 1-Methoxy-2-propyl-acetate | 108-65-6 | EC50 | >100 $^{mg}/_{l}$ | aquatic invertebrates | 21 d |

### 12.2 Persistence and degradability

**Degradability of components**

| Name of sub-stance | CAS No | Process | Degradation rate | Time | Method | Source |
|---|---|---|---|---|---|---|
| ethyl acetate | 141-78-6 | oxygen depletion | 62 % | 5 d | | |
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | oxygen depletion | 83 % | 10 d | | ECHA |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | oxygen depletion | 8 % | 3 d | | ECHA |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | carbon dioxide generation | 0 % | 3 d | | ECHA |
| 1-Methoxy-2-propylacetate | 108-65-6 | carbon dioxide generation | 90 % | 28 d | | ECHA |
| 1-Methoxy-2-propylacetate | 108-65-6 | oxygen depletion | 60 % | 5.9 d | | ECHA |
| 1-Methoxy-2-propylacetate | 108-65-6 | DOC removal | 99 % | 28 d | | ECHA |

### 12.3 Bioaccumulative potential

Data are not available.

**Bioaccumulative potential of components**

| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
|---|---|---|---|---|
| butane | 106-97-8 | | 1.09 (pH value: 7, 20 °C) | |
| propane | 74-98-6 | | 1.09 (pH value: 7, 20 °C) | |
| ethyl acetate | 141-78-6 | 30 | 0.68 (pH value: 7, 25 °C) | |
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | 501.2 | 3.6 (pH value: 7, 20 °C) | |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | ≥6.91 – ≤1,582 | ≥1.99 – ≤5.25 | |
| 1-Methoxy-2-propylacetate | 108-65-6 | | 1.2 (pH value: 6.8, 20 °C) | |

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

**Sewage disposal-relevant information**

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

**Waste treatment of containers/packagings**

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**Relevant provisions relating to waste**

**List of wastes, (Recommendations)**

**Product residues**

16 05 04* Gases in pressure containers (including halons) containing hazardous substances

**Packagings**

15 01 04 Metallic packaging

**Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

| | | |
|---|---|---|
| **14.1** | **UN number or ID number** | |
| | **ADR/RID/ADN** | UN 1950 |
| | **IMDG-Code** | UN 1950 |
| | **ICAO-TI** | UN 1950 |
| **14.2** | **UN proper shipping name** | |
| | **ADR/RID/ADN** | AEROSOLS |
| | **IMDG-Code** | AEROSOLS |
| | **ICAO-TI** | Aerosols, flammable |
| **14.3** | **Transport hazard class(es)** | |
| | **ADR/RID/ADN** | 2 (2.1) |
| | **IMDG-Code** | 2.1 |
| | **ICAO-TI** | 2.1 |
| **14.4** | **Packing group** | not assigned |
| **14.5** | **Environmental hazards** | non-environmentally hazardous acc. to the dangerous goods regulations |

**14.6 Special precautions for user**

Provisions for dangerous goods (ADR) should be complied within the premises.

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

The cargo is not intended to be carried in bulk.

**Information for each of the UN Model Regulations**

**Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) Additional information**

| | |
|---|---|
| Classification code | 5F |
| Danger label(s) | 2.1 |

| | |
|---|---|
| Special provisions (SP) | 190, 327, 344, 625 |
| Excepted quantities (EQ) | E0 |
| Limited quantities (LQ) | 1 L |
| Transport category (TC) | 2 |
| Tunnel restriction code (TRC) | D |

**International Maritime Dangerous Goods Code (IMDG) Additional information**

| | |
|---|---|
| Marine pollutant | - |
| Danger label(s) | 2.1 |

| | |
|---|---|
| Special provisions (SP) | 63, 190, 277, 327, 344, 381, 959 |
| Excepted quantities (EQ) | E0 |
| Limited quantities (LQ) | 1 L |

| | |
|---|---|
| EmS | F-D, S-U |
| Stowage category | - |

**International Civil Aviation Organization (ICAO-IATA/DGR) Additional information**

| | |
|---|---|
| Danger label(s) | 2.1 |

| | |
|---|---|
| Special provisions (SP) | A145, A167 |
| Excepted quantities (EQ) | E0 |
| Limited quantities (LQ) | 30 kg |

## SECTION 15: Regulatory information

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

**Relevant provisions of the European Union (EU)**

**List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list**

none of the ingredients are listed

**Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)**

none of the ingredients are listed

**Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

none of the ingredients are listed

**Regulation on the marketing and use of explosives precursors**

none of the ingredients are listed

**Regulation on persistent organic pollutants (POP)**

none of the ingredients are listed

**National regulations (Germany)**

**Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)**

**Wassergefährdungsklasse, WGK (water hazard class)** 2 obviously hazardous to water

**Technical instructions on air quality control (Germany)**

| Number | Group of substances | Class | Conc. | Mass flow | Mass concentration | Notation |
|---|---|---|---|---|---|---|
| 5.2.5 | organic substances | | ≥ 25 wt% | 0.5 $^{kg}/_{h}$ | 50 $^{mg}/_{m^3}$ | 3) |

Notation

3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

**National inventories**

| Country | Inventory | Status |
|---|---|---|
| EU | REACH Reg. | not all ingredients are listed |

Legend

REACH Reg. REACH registered substances

**15.2 Chemical safety assessment**

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

## SECTION 16: Other information

**Abbreviations and acronyms**

| Abbr. | Descriptions of used abbreviations. |
|---|---|
| 2000/39/EC. | Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC. |
| 2017/164/EU. | Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU. |
| ADN. | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways). |
| ADR. | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road). |
| ADR/RID/ADN. | Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN). |
| AGW. | Workplace exposure limit. |
| Aquatic Chronic. | Hazardous to the aquatic environment - chronic hazard. |
| Asp. Tox. | Aspiration hazard. |
| BCF. | Bioconcentration factor. |
| BOD. | Biochemical Oxygen Demand. |
| CAS. | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances). |
| Ceiling-C. | Ceiling value. |
| CLP. | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. |
| COD. | Chemical oxygen demand. |

| Abbr. | Descriptions of used abbreviations. |
|---|---|
| DFG. | Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim. |
| DGR. | Dangerous Goods Regulations (see IATA/DGR). |
| DNEL. | Derived No-Effect Level. |
| EC50. | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval. |
| EC No. | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union). |
| ED. | Endocrine disruptor. |
| EINECS. | European Inventory of Existing Commercial Chemical Substances. |
| ELINCS. | European List of Notified Chemical Substances. |
| EmS. | Emergency Schedule. |
| Eye Dam. | Seriously damaging to the eye. |
| Eye Irrit. | Irritant to the eye. |
| Flam. Gas. | Flammable gas. |
| Flam. Liq. | Flammable liquid. |
| GHS. | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations. |
| IATA. | International Air Transport Association. |
| IATA/DGR. | Dangerous Goods Regulations (DGR) for the air transport (IATA). |
| ICAO. | International Civil Aviation Organization. |
| ICAO-TI. | Technical instructions for the safe transport of dangerous goods by air. |
| IMDG. | International Maritime Dangerous Goods Code. |
| IMDG-Code. | International Maritime Dangerous Goods Code. |
| Index No. | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008. |
| IOELV. | Indicative occupational exposure limit value. |
| LC50. | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval. |
| LGK. | Lagerklasse (storage class according to TRGS 510, Germany). |
| Log KOW. | n-Octanol/water. |
| NLP. | No-Longer Polymer. |
| PBT. | Persistent, Bioaccumulative and Toxic. |
| PNEC. | Predicted No-Effect Concentration. |
| Ppm. | Parts per million. |
| Press. Gas. | Gas under pressure. |
| REACH. | Registration, Evaluation, Authorisation and Restriction of Chemicals. |
| RID. | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail). |
| Skin Corr. | Corrosive to skin. |
| Skin Irrit. | Irritant to skin. |
| STEL. | Short-term exposure limit. |
| STOT SE. | Specific target organ toxicity - single exposure. |
| SVHC. | Substance of Very High Concern. |
| TRGS. | Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany). |
| TRGS 900. | Arbeitsplatzgrenzwerte (TRGS 900). |
| TWA. | Time-weighted average. |
| VPvB. | Very Persistent and very Bioaccumulative. |

**Key literature references and sources for data**

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.
Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

**Classification procedure**

Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**List of relevant phrases (code and full text as stated in section 2 and 3)**

| | |
|---|---|
| H220. | Extremely flammable gas. |
| H221. | Flammable gas. |
| H222. | Extremely flammable aerosol. |
| H225. | Highly flammable liquid and vapour. |
| H226. | Flammable liquid and vapour. |
| H229. | Pressurised container: May burst if heated. |
| 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. |
| H412. | Harmful to aquatic life with long lasting effects. |

**Disclaimer**

This SDS has been compiled and is solely intended for this product. This information is based on the present state of our knowledge and does not constitute an assurance of product properties nor establishes contract legal rights. All data about health and safety are only for information. They should therefore not be construed as specifications.