

Weld-thru primer copper

Version number: 1.0

Date of compilation: 18.11.2025

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

1.1 Product identifier

| | |
|---------------------------------|--------------------------------|
| Trade name | Weld-thru primer copper |
| Registration number (REACH) | not relevant (mixture) |
| Unique formula identifier (UFI) | 8830-C0S3-5002-YJFE |
| Article number | TSP 530 |

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

| | |
|--------------------------|---|
| Relevant identified uses | Industrial use Professional use |
| Uses advised against | Do not use for private purposes (household) |

1.3 Details of the supplier of the safety data sheet

Chemicar Europe NV
 Baarbeek 2
 2070 Zwijndrecht
 Belgium

Telephone: +32 3 234 87 80
 e-mail: msds@emm.com
 Website: www.finixa.com

e-mail (competent person) msds@emm.com

1.4 Emergency telephone number

Emergency information service +31 38 4676600
 This number is only available during the following office hours: Mon-Fri 09:00 - 17:00

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 | 1 | Eye Dam. 1 | H318 |
| 3.8R | specific target organ toxicity - single exposure (respiratory tract irritation) | 3 | STOT SE 3 | H335 |
| 3.8D | specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3 | STOT SE 3 | H336 |
| 4.1A | hazardous to the aquatic environment - acute hazard | 1 | Aquatic Acute 1 | H400 |
| 4.1C | hazardous to the aquatic environment - chronic hazard | 2 | Aquatic Chronic 2 | H411 |

For full text of H-phrases: 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)

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- signal word

Danger

- pictograms

GHS02, GHS05,
GHS07, GHS09



- hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.

- precautionary statements

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 dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

- hazardous ingredients for labelling

Contains: n-butanol; butan-1-ol; Hydrocarbons, C9, aromatics; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane; xylene.

Additional labelling according to Directive 75/324/EEC relating to aerosol dispensers

Extremely flammable. Pressurized container: may burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Do not spray on an open flame or other ignition source.

2.3 Other hazards

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms | Notes |
|-------------------|--|-----------|--|------------|-------------------------|
| dimethyl ether | CAS No 115-10-6 EC No 204-065-8 | 50 – < 75 | Flam. Gas 1A / H220 Press. Gas C / H280 | | GHS-HC IOELV U(b) |

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| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms | Notes |
|--|---|-------------|--|--|----------------------|
| | Index No 603-019-00-8 REACH Reg. No 01-2119472128-37-xxxx | | | | |
| Hydrocarbons, C9, aromatics | CAS No 128601-23-0 EC No 918-668-5 REACH Reg. No 01-2119455851-35-xxxx | 10 - < 12,5 | Flam. Liq. 3 / H226 STOT SE 3 / H335 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 EUH066 |     | |
| n-butanol; butan-1-ol | CAS No 71-36-3 EC No 200-751-6 Index No 603-004-00-6 REACH Reg. No 01-2119484630-38-xxxx | 5 - < 10 | Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335 STOT SE 3 / H336 |    | GHS-HC |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | EC No 921-024-6 REACH Reg. No 01-2119475514-35-xxxx | 5 - < 10 | Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 |     | |
| xylene | CAS No 1330-20-7 EC No 215-535-7 Index No 601-022-00-9 REACH Reg. No 01-2119488216-32-xxxx | 2,5 - < 5 | Flam. Liq. 3 / H226 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412 |    | C GHS-HC IOELV |
| copper [specific surface area > 0,67 mm ² /mg] | CAS No 7440-50-8 EC No 231-159-6 Index No 029-026-00-0 REACH Reg. No 01-2119480154-42-xxxx | 2,5 - < 5 | Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410 |  | GHS-HC |
| ethylbenzene | CAS No 100-41-4 EC No 202-849-4 Index No 601-023-00-4 | < 2,5 | Flam. Liq. 2 / H225 Acute Tox. 4 / H332 STOT RE 2 / H373 Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412 |    | GHS-HC IOELV |

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| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms | Notes |
|--|--|------|--|--|-------|
| | REACH Reg. No 01-2119489370- 35-xxxx | | | | |
| reaction mass of ethylbenzene and xylene | EC No 905-588-0 REACH Reg. No 01-2119488216- 32-xxxx | <2,5 | Flam. Liq. 3 / H226 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 STOT RE 2 / H373 Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412 |    | |

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

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

| Name of substance | Identifier | Specific Conc. Limits | M-Factors | ATE | Exposure route |
|---|---------------------|-----------------------|---|--------------------------|------------------------------|
| n-butanol; butan-1-ol | CAS No 71-36-3 | - | - | 500 mg/kg | oral |
| xylene | CAS No 1330-20-7 | - | - | 1.100 mg/kg 11 mg//4h | dermal inhalation: vapour |
| copper [specific surface area > 0,67 mm ² /mg] | CAS No 7440-50-8 | - | M-factor (acute) = 10 M-factor (chronic) = 1 | - | |
| reaction mass of ethylbenzene and xylene | | - | - | 1.100 mg/kg 11 mg//4h | dermal inhalation: vapour |
| ethylbenzene | CAS No 100-41-4 | - | - | 11 mg//4h | inhalation: vapour |

Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: 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. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

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

Following skin contact

Wash with plenty of soap and water. Call a POISON CENTER/doctor.

Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

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Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

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

For specialist advice physicians should contact the poison centre.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray; Dry extinguishing powder;
Co-ordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

Hazardous combustion products

During fire hazardous fumes/smoke could be produced. 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.

Special protective equipment for firefighters

Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

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

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Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Protect from sunlight.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

- packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Generic EU SDS - No country specific limit values mentioned.

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | |
|--|----------------|-----------|------------|-----------|--------------------------|------------|---------------------------|----------|------------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Notation | Source |
| EU | ethylbenzene | 100-41-4 | IOELV | 100 | 442 | 200 | 884 | H | 2000/39/EC |
| EU | dimethyl ether | 115-10-6 | IOELV | 1.000 | 1.920 | | | | 2000/39/EC |
| EU | xylene | 1330-20-7 | IOELV | 50 | 221 | 100 | 442 | pure, H | 2000/39/EC |

Notation

H absorbed through the skin

pure pure substance

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)

Relevant DNELs/DMELs/PNECs and other threshold levels

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| Relevant DNELs of components of the mixture | | | | | | |
|--|-------------|-----------|-------------------------|------------------------------------|-------------------------------|----------------------------|
| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Hydrocarbons, C9, aromatics | 128601-23-0 | DNEL | 151 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C9, aromatics | 128601-23-0 | DNEL | 12,5 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C9, aromatics | 128601-23-0 | DNEL | 32 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| Hydrocarbons, C9, aromatics | 128601-23-0 | DNEL | 7,5 mg/kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |
| Hydrocarbons, C9, aromatics | 128601-23-0 | DNEL | 7,5 mg/kg bw/day | human, oral | consumer (private households) | chronic - systemic effects |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | DNEL | 2.035 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | DNEL | 773 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | DNEL | 608 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | DNEL | 699 mg/kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | DNEL | 699 mg/kg bw/day | human, oral | consumer (private households) | chronic - systemic effects |
| n-butanol; butan-1-ol | 71-36-3 | DNEL | 310 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| n-butanol; butan-1-ol | 71-36-3 | DNEL | 55,36 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| n-butanol; butan-1-ol | 71-36-3 | DNEL | 155 mg/m ³ | human, inhalatory | consumer (private households) | chronic - local effects |
| n-butanol; butan-1-ol | 71-36-3 | DNEL | 3,125 mg/kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |
| n-butanol; butan-1-ol | 71-36-3 | DNEL | 1,562 mg/kg bw/day | human, oral | consumer (private households) | chronic - systemic effects |
| xylene | 1330-20-7 | DNEL | 221 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| xylene | 1330-20-7 | DNEL | 442 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| xylene | 1330-20-7 | DNEL | 221 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| xylene | 1330-20-7 | DNEL | 442 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| xylene | 1330-20-7 | DNEL | 212 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

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|---|-----------|-----------|------------------------|------------------------------------|-------------------------------|----------------------------|
| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| xylene | 1330-20-7 | DNEL | 65,3 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| xylene | 1330-20-7 | DNEL | 260 mg/m ³ | human, inhalatory | consumer (private households) | acute - systemic effects |
| xylene | 1330-20-7 | DNEL | 65,3 mg/m ³ | human, inhalatory | consumer (private households) | chronic - local effects |
| xylene | 1330-20-7 | DNEL | 260 mg/m ³ | human, inhalatory | consumer (private households) | acute - local effects |
| xylene | 1330-20-7 | DNEL | 125 mg/kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |
| xylene | 1330-20-7 | DNEL | 2,5 mg/kg bw/day | human, oral | consumer (private households) | chronic - systemic effects |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | DNEL | 1 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | DNEL | 1 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | DNEL | 137 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | DNEL | 273 mg/kg bw/day | human, dermal | worker (industry) | acute - systemic effects |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | DNEL | 1 mg/m ³ | human, inhalatory | consumer (private households) | chronic - local effects |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | DNEL | 1 mg/m ³ | human, inhalatory | consumer (private households) | acute - local effects |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | DNEL | 137 mg/kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | DNEL | 273 mg/kg bw/day | human, dermal | consumer (private households) | acute - systemic effects |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | DNEL | 0,041 mg/kg bw/day | human, oral | consumer (private households) | chronic - systemic effects |
| reaction mass of ethylbenzene and xylene | | DNEL | 77 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| reaction mass of ethylbenzene and xylene | | DNEL | 293 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| reaction mass of ethylbenzene and xylene | | DNEL | 180 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| reaction mass of ethylbenzene and xylene | | DNEL | 15 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| reaction mass of | | DNEL | 1,6 mg/kg | human, oral | consumer (private) | chronic - systemic |

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| Relevant DNELs of components of the mixture | | | | | | |
|---|----------|-----------|------------------------|------------------------------------|-------------------------------|----------------------------|
| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| ethylbenzene and xylene | | | bw/day | | households) | effects |
| reaction mass of ethylbenzene and xylene | | DNEL | 442 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| reaction mass of ethylbenzene and xylene | | DNEL | 221 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| reaction mass of ethylbenzene and xylene | | DNEL | 260 mg/m ³ | human, inhalatory | consumer (private households) | acute - systemic effects |
| reaction mass of ethylbenzene and xylene | | DNEL | 65,3 mg/m ³ | human, inhalatory | consumer (private households) | chronic - local effects |
| reaction mass of ethylbenzene and xylene | | DNEL | 260 mg/m ³ | human, inhalatory | consumer (private households) | acute - local effects |
| reaction mass of ethylbenzene and xylene | | DNEL | 125 mg/kg bw/day | human, dermal | consumer (private households) | chronic - systemic effects |
| ethylbenzene | 100-41-4 | DNEL | 77 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| ethylbenzene | 100-41-4 | DNEL | 293 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| ethylbenzene | 100-41-4 | DNEL | 180 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| ethylbenzene | 100-41-4 | DNEL | 15 mg/m ³ | human, inhalatory | consumer (private households) | chronic - systemic effects |
| ethylbenzene | 100-41-4 | DNEL | 1,6 mg/kg bw/day | human, oral | consumer (private households) | chronic - systemic effects |

| Relevant PNECs of components | | | | | | |
|------------------------------|----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| dimethyl ether | 115-10-6 | PNEC | 0,155 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| dimethyl ether | 115-10-6 | PNEC | 0,016 mg/l | aquatic organisms | marine water | short-term (single instance) |
| dimethyl ether | 115-10-6 | PNEC | 160 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| dimethyl ether | 115-10-6 | PNEC | 0,681 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| dimethyl ether | 115-10-6 | PNEC | 0,069 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| dimethyl ether | 115-10-6 | PNEC | 0,045 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| n-butanol; butan-1-ol | 71-36-3 | PNEC | 0,082 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| n-butanol; butan-1-ol | 71-36-3 | PNEC | 0,008 mg/l | aquatic organisms | marine water | short-term (single instance) |

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| Relevant PNECs of components | | | | | | |
|---|-----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| | | | | | | instance) |
| n-butanol; butan-1-ol | 71-36-3 | PNEC | 2,476 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| n-butanol; butan-1-ol | 71-36-3 | PNEC | 0,324 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| n-butanol; butan-1-ol | 71-36-3 | PNEC | 0,032 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| n-butanol; butan-1-ol | 71-36-3 | PNEC | 0,017 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| xylene | 1330-20-7 | PNEC | 0,327 mg/l | aquatic organisms | water | intermittent release |
| xylene | 1330-20-7 | PNEC | 0,044 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| xylene | 1330-20-7 | PNEC | 0,004 mg/l | aquatic organisms | marine water | short-term (single instance) |
| xylene | 1330-20-7 | PNEC | 1,6 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| xylene | 1330-20-7 | PNEC | 2,52 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| xylene | 1330-20-7 | PNEC | 0,252 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| xylene | 1330-20-7 | PNEC | 0,852 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | PNEC | 6,3 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | PNEC | 5,2 µg/l | aquatic organisms | marine water | short-term (single instance) |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | PNEC | 230 µg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | PNEC | 87 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | PNEC | 676 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | PNEC | 65 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| reaction mass of ethylbenzene and xylene | | PNEC | 0,1 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| reaction mass of ethylbenzene and xylene | | PNEC | 0,01 mg/l | aquatic organisms | marine water | short-term (single instance) |
| reaction mass of ethylbenzene and xylene | | PNEC | 9,6 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| reaction mass of ethylbenzene and xylene | | PNEC | 13,7 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |

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| Relevant PNECs of components | | | | | | |
|--|----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| lene | | | | | | |
| reaction mass of ethylbenzene and xylene | | PNEC | 1,37 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| reaction mass of ethylbenzene and xylene | | PNEC | 2,68 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| ethylbenzene | 100-41-4 | PNEC | 0,1 mg/l | aquatic organisms | water | intermittent release |
| ethylbenzene | 100-41-4 | PNEC | 0,1 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| ethylbenzene | 100-41-4 | PNEC | 0,01 mg/l | aquatic organisms | marine water | short-term (single instance) |
| ethylbenzene | 100-41-4 | PNEC | 9,6 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| ethylbenzene | 100-41-4 | PNEC | 13,7 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| ethylbenzene | 100-41-4 | PNEC | 1,37 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| ethylbenzene | 100-41-4 | PNEC | 2,68 mg/kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection (EN ISO 16321).

Skin protection



Chemical protective clothing. Protective clothing (EN ISO 13688).

Hand protection



Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- type of material

Butyl rubber

- material thickness

Use gloves with a minimum material thickness: $\geq 0,40$ mm.

- breakthrough time of the glove material

Use gloves with a minimum breakthrough time 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.

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Respiratory protection

During spraying wear suitable respiratory equipment. In case of inadequate ventilation wear respiratory protection. Full face mask/half mask/quarter mask (EN 136/140). Type: ABEK-P2 (combined filters against gases, vapours and particles, colour code: Brown/Grey/Yellow/Green/White).

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. 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 | liquid, solid, gaseous (spray aerosol) |
| Colour | copper |
| Odour | like solvents |
| Melting point/freezing point | not determined |
| Boiling point or initial boiling point and boiling range | -24,8 °C calculated value, referring to a component of the mixture |
| Flammability | flammable aerosol in accordance with GHS criteria |
| Lower and upper explosion limit | LEL: 0,7 vol% / UEL: 26,2 vol% |
| Flash point | not applicable |
| Auto-ignition temperature | >200 °C (auto-ignition temperature (liquids and gases)) calculated value, referring to a component of the mixture |
| Decomposition temperature | no data available |
| pH (value) | not determined |
| Kinematic viscosity | not relevant |
| Solubility | not determined |

| | |
|---|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---|-----------------------------------|

| | |
|-----------------|--------------------|
| Vapour pressure | 4.000 hPa at 20 °C |
|-----------------|--------------------|

Density and/or relative density

| | |
|-------------------------|---|
| Density | 0,8 g/cm ³ at 20 °C |
| Relative vapour density | information on this property is not available |

| | |
|--------------------------|------------------------|
| Particle characteristics | not relevant (aerosol) |
|--------------------------|------------------------|

9.2 Other information

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

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| | |
|------------------------------|------------------------------------|
| Other safety characteristics | there is no additional information |
|------------------------------|------------------------------------|

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

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 toxicological effects

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 acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity estimate (ATE) of components | | | |
|---|-----------|--------------------|-------------|
| Name of substance | CAS No | Exposure route | ATE |
| n-butanol; butan-1-ol | 71-36-3 | oral | 500 mg/kg |
| xylene | 1330-20-7 | dermal | 1.100 mg/kg |
| xylene | 1330-20-7 | inhalation: vapour | 11 mg/l/4h |
| reaction mass of ethylbenzene and xylene | | dermal | 1.100 mg/kg |
| reaction mass of ethylbenzene and xylene | | inhalation: vapour | 11 mg/l/4h |
| ethylbenzene | 100-41-4 | inhalation: vapour | 11 mg/l/4h |

| Acute toxicity of components | | | | | |
|------------------------------|-------------|-----------------|----------|-----------------|---------|
| Name of substance | CAS No | Exposure route | Endpoint | Value | Species |
| dimethyl ether | 115-10-6 | inhalation: gas | LC50 | 164.000 ppmV/4h | rat |
| Hydrocarbons, C9, aromatics | 128601-23-0 | oral | LD50 | 7.093 mg/kg | rat |
| Hydrocarbons, C9, aromatics | 128601-23-0 | dermal | LD50 | >2.000 mg/kg | rabbit |

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| Acute toxicity of components | | | | | |
|--|-----------|--------------------|----------|------------------------------|---------|
| Name of substance | CAS No | Exposure route | Endpoint | Value | Species |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | inhalation: vapour | LC50 | >25,2 mg/l/4h | rat |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | dermal | LD50 | >2.800 - 3.100 mg/kg | rat |
| n-butanol; butan-1-ol | 71-36-3 | oral | LD50 | 2.292 mg/kg | rat |
| n-butanol; butan-1-ol | 71-36-3 | dermal | LD50 | 3.430 mg/kg | rabbit |
| xylene | 1330-20-7 | oral | LD50 | 5.627 mg/kg | mouse |
| xylene | 1330-20-7 | dermal | LD50 | 12.126 mg/kg | rabbit |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | oral | LD50 | >2.500 mg/kg | rat |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | dermal | LD50 | >2.000 mg/kg | rat |
| reaction mass of ethylbenzene and xylene | | inhalation: vapour | LC50 | 27.124 mg/m ³ /4h | rat |
| reaction mass of ethylbenzene and xylene | | oral | LD50 | 3.523 mg/kg | rat |
| reaction mass of ethylbenzene and xylene | | dermal | LD50 | 12.126 mg/kg | rabbit |
| ethylbenzene | 100-41-4 | oral | LD50 | 3.500 mg/kg | rat |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

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 respiratory irritation. 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

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

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

Other information

There is no additional information.

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SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

| Aquatic toxicity (acute) of components of the mixture | | | | | |
|--|-------------|---------------|----------------|--------------------------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| dimethyl ether | 115-10-6 | LC50 | >4,1 g/l | guppy (Poecilia reticulata) | 96 h |
| dimethyl ether | 115-10-6 | EC50 | >4,4 g/l | daphnia magna | 48 h |
| dimethyl ether | 115-10-6 | NOEC | ≥4,1 g/l | guppy (Poecilia reticulata) | 96 h |
| Hydrocarbons, C9, aromatics | 128601-23-0 | LL50 | 9,2 mg/l | rainbow trout (Oncorhynchus mykiss) | 96 h |
| Hydrocarbons, C9, aromatics | 128601-23-0 | EL50 | 3,2 mg/l | daphnia magna | 48 h |
| Hydrocarbons, C9, aromatics | 128601-23-0 | NOELR | 1 mg/l | algae | 72 h |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | LL50 | >13,4 mg/l | rainbow trout (Oncorhynchus mykiss) | 96 h |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | EL50 | ≥10 – ≤22 mg/l | daphnia magna | 24 h |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | NOELR | 6,3 mg/l | algae | 72 h |
| n-butanol; butan-1-ol | 71-36-3 | ErC50 | 225 mg/l | algae | 96 h |
| n-butanol; butan-1-ol | 71-36-3 | LC50 | 1.376 mg/l | fathead minnow (Pimephales promelas) | 96 h |
| n-butanol; butan-1-ol | 71-36-3 | EC50 | 1.328 mg/l | daphnia magna | 48 h |
| n-butanol; butan-1-ol | 71-36-3 | NOAEC | 129 mg/l | algae | 96 h |
| n-butanol; butan-1-ol | 71-36-3 | NOEC | 519 mg/l | fathead minnow (Pimephales promelas) | 96 h |
| xylene | 1330-20-7 | ErC50 | 4,7 mg/l | algae | 72 h |
| xylene | 1330-20-7 | EL50 | 5,267 mg/l | algae | 72 h |
| xylene | 1330-20-7 | LC50 | 5,549 mg/l | rainbow trout (Oncorhynchus mykiss) | 72 h |
| xylene | 1330-20-7 | LL50 | 5,921 mg/l | rainbow trout (Oncorhynchus mykiss) | 72 h |
| xylene | 1330-20-7 | EC50 | 5,744 mg/l | algae | 72 h |
| xylene | 1330-20-7 | NOELR | 1,009 mg/l | algae | 72 h |
| xylene | 1330-20-7 | NOEC | 1,1 mg/l | algae | 72 h |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | LC50 | 1.100 µg/l | bluegill (Lepomis macrochirus) | 96 h |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | EC50 | 792 µg/l | daphnia magna | 48 h |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | NOEC | 13 µg/l | fathead minnow (Pimephales promelas) | 96 h |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | LOEC | 0,006 mg/l | unknown | 96 h |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | growth (EbCx) | 7,98 | aquatic invertebrates | 48 h |

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| Aquatic toxicity (acute) of components of the mixture | | | | | |
|---|----------|----------|----------------|-------------------------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| 0,67 mm2/mg] | | 10% | µg/l | | |
| reaction mass of ethylbenzene and xylene | | ErC50 | 4,7 mg/l | algae | 72 h |
| reaction mass of ethylbenzene and xylene | | LL50 | 5,089 mg/l | rainbow trout (Oncorhynchus mykiss) | 72 h |
| reaction mass of ethylbenzene and xylene | | LC50 | 7,6 mg/l | rainbow trout (Oncorhynchus mykiss) | 96 h |
| reaction mass of ethylbenzene and xylene | | EL50 | 5,267 mg/l | algae | 72 h |
| reaction mass of ethylbenzene and xylene | | EC50 | 4,7 mg/l | algae | 72 h |
| reaction mass of ethylbenzene and xylene | | NOELR | 1,009 mg/l | algae | 72 h |
| ethylbenzene | 100-41-4 | LC50 | 5,1 mg/l | fish | 96 h |
| ethylbenzene | 100-41-4 | EC50 | 1,8 – 2,4 mg/l | daphnia magna | 48 h |
| ethylbenzene | 100-41-4 | NOEC | 3,3 mg/l | fish | 96 h |

| Aquatic toxicity (chronic) of components of the mixture | | | | | |
|--|-------------|-------------------|------------|-------------------------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Hydrocarbons, C9, aromatics | 128601-23-0 | EC50 | >99 mg/l | microorganisms | 10 min |
| Hydrocarbons, C9, aromatics | 128601-23-0 | NOEC | >99 mg/l | microorganisms | 10 min |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | EL50 | 1,6 mg/l | daphnia magna | 21 d |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | EC50 | 0,23 mg/l | daphnia magna | 21 d |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | NOELR | 1 mg/l | daphnia magna | 21 d |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | NOEC | 0,17 mg/l | daphnia magna | 21 d |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | LOEC | 0,32 mg/l | daphnia magna | 21 d |
| n-butanol; butan-1-ol | 71-36-3 | EC50 | 18 mg/l | daphnia magna | 21 d |
| n-butanol; butan-1-ol | 71-36-3 | NOEC | 4,1 mg/l | daphnia magna | 21 d |
| n-butanol; butan-1-ol | 71-36-3 | growth (EbCx) 10% | 2.476 mg/l | soil microorganisms | 17 h |
| xylene | 1330-20-7 | ErC50 | 4,36 mg/l | algae | 73 h |
| xylene | 1330-20-7 | EL50 | 2,9 mg/l | daphnia magna | 21 d |
| xylene | 1330-20-7 | EC50 | 2,2 mg/l | algae | 73 h |
| xylene | 1330-20-7 | NOEC | 1,063 mg/l | rainbow trout (Oncorhynchus mykiss) | 21 d |
| xylene | 1330-20-7 | LOEC | 1,29 mg/l | zebra fish (Danio rerio) | 35 d |

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| Aquatic toxicity (chronic) of components of the mixture | | | | | |
|---|-----------|-------------------|------------|-------------------------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| xylene | 1330-20-7 | NOELR | 1,989 mg/l | daphnia magna | 21 d |
| xylene | 1330-20-7 | growth (EbCx) 10% | 1,91 mg/l | daphnia magna | 21 d |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | EC50 | 0,032 mg/l | green algae | 7 d |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | LC50 | 61,2 µg/l | unknown | 28 d |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | NOEC | 123 µg/l | fish | 12 d |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | LOEC | 0,22 mg/l | unknown | 0,17 min |
| copper [specific surface area > 0,67 mm ² /mg] | 7440-50-8 | growth (EbCx) 10% | 1,02 µg/l | fish | 25 d |
| reaction mass of ethylbenzene and xylene | | ErC50 | 4,36 mg/l | algae | 73 h |
| reaction mass of ethylbenzene and xylene | | EL50 | 2,9 mg/l | daphnia magna | 21 d |
| reaction mass of ethylbenzene and xylene | | EC50 | 2,2 mg/l | algae | 73 h |
| reaction mass of ethylbenzene and xylene | | NOELR | 0,975 mg/l | rainbow trout (Oncorhynchus mykiss) | 21 d |
| reaction mass of ethylbenzene and xylene | | NOEC | 0,714 mg/l | zebra fish (Danio rerio) | 35 d |
| reaction mass of ethylbenzene and xylene | | LOEC | 1,29 mg/l | zebra fish (Danio rerio) | 35 d |
| reaction mass of ethylbenzene and xylene | | growth (EbCx) 10% | 1,91 mg/l | daphnia magna | 21 d |
| ethylbenzene | 100-41-4 | EC50 | 2,8 mg/l | aquatic invertebrates | 24 h |
| ethylbenzene | 100-41-4 | LC50 | 3,6 mg/l | crustacean | 7 d |
| ethylbenzene | 100-41-4 | LOEL | 1,7 mg/l | aquatic invertebrates | 7 d |
| ethylbenzene | 100-41-4 | LOEC | 1,7 mg/l | aquatic invertebrates | 7 d |
| ethylbenzene | 100-41-4 | NOEC | 0,262 mg/l | fish | 30 d |

12.2 Persistence and degradability

| Degradability of components | | | | | |
|--|-------------|------------------|------------------|------|--------|
| Name of substance | CAS No | Process | Degradation rate | Time | Method |
| dimethyl ether | 115-10-6 | oxygen depletion | 5 % | 28 d | |
| Hydrocarbons, C9, aromatics | 128601-23-0 | oxygen depletion | 30,9 % | 2 d | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | oxygen depletion | 10,5 % | 15 d | |
| n-butanol; butan-1-ol | 71-36-3 | oxygen depletion | 68 % | 5 d | |
| xylene | 1330-20-7 | oxygen depletion | 94 % | 28 d | |
| reaction mass of ethylbenzene and xy- | | oxygen depletion | 94 % | 28 d | |

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| Degradability of components | | | | | |
|-----------------------------|--------|---------|------------------|------|--------|
| Name of substance | CAS No | Process | Degradation rate | Time | Method |
| lene | | | | | |

12.3 Bioaccumulative potential

| Bioaccumulative potential of components | | | | |
|--|-------------|-----------------|---------------------|----------|
| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
| dimethyl ether | 115-10-6 | | 0,07 (25 °C) | |
| Hydrocarbons, C9, aromatics | 128601-23-0 | ≥30,85 – ≤467 | 3,03 – 4,73 (20 °C) | |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | | ≥26,26 – ≤315,7 | 2,96 – 3,78 (20 °C) | |
| n-butanol; butan-1-ol | 71-36-3 | | 1 (25 °C) | |
| xylene | 1330-20-7 | 56,49 | 3,12 (20 °C) | |
| reaction mass of ethylbenzene and xylene | | 56,49 | 3,12 (20 °C) | |
| ethylbenzene | 100-41-4 | 110 | 3,6 (20 °C) | |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

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.

Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) 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, Decision 2000/532/EC on the list of waste

- product
08 01 11* waste paint and varnish containing organic solvents or other hazardous substances
- packagings
15 01 04 metallic packaging
15 01 10* packaging containing residues of or contaminated by hazardous substances

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.

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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 flammable |
| 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

hazardous to the aquatic environment

Environmentally hazardous substance (aquatic environment)

Hydrocarbons, C9, aromatics

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

No data available.

Additional 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 |



| | |
|-------------------------------|--|
| Environmental hazards | yes (hazardous to the aquatic environment) |
| 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 | yes (hazardous to the aquatic environment) |
| Danger label(s) | 2.1 |

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| | |
|--------------------------|----------------------------------|
| 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

| | |
|-----------------------|--|
| Environmental hazards | yes (hazardous to the aquatic environment) |
| 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

This Safety Data Sheet is purely informative and does comply with EU regulations, but not with country-specific regulations.

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

| Name | Name acc. to inventory | Restriction | No |
|--|--|-------------|----|
| xylene | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3 | 3 |
| xylene | flammable / pyrophoric | R40 | 40 |
| xylene | substances in tattoo inks and permanent make-up | R75 | 75 |
| ethylbenzene | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3 | 3 |
| ethylbenzene | flammable / pyrophoric | R40 | 40 |
| Hydrocarbons, C9, aromatics | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3 | 3 |
| Hydrocarbons, C9, aromatics | flammable / pyrophoric | R40 | 40 |
| n-butanol; butan-1-ol | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3 | 3 |
| n-butanol; butan-1-ol | flammable / pyrophoric | R40 | 40 |
| n-butanol; butan-1-ol | substances in tattoo inks and permanent make-up | R75 | 75 |
| dimethyl ether | flammable / pyrophoric | R40 | 40 |
| reaction mass of ethylbenzene and xylene | this product meets the criteria for classification | R3 | 3 |

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| Name | Name acc. to inventory | Restriction | No |
|--|--|-------------|----|
| | in accordance with Regulation No 1272/2008/EC | | |
| reaction mass of ethylbenzene and xylene | flammable / pyrophoric | R40 | 40 |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3 | 3 |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% nhexane | flammable / pyrophoric | R40 | 40 |
| copper [specific surface area > 0,67 mm ² /mg] | substances in tattoo inks and permanent make-up | R75 | 75 |

Legend

- R3**
- Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ash-trays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
 - Articles not complying with paragraph 1 shall not be placed on the market.
 - Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and
 - present an aspiration hazard and are labelled with H304.
 - Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
 - Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
 - grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
 - lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;
- R40**
- Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
 - metallic glitter intended mainly for decoration,
 - artificial snow and frost,
 - 'whoopee' cushions,
 - silly string aerosols,
 - imitation excrement,
 - horns for parties,
 - decorative flakes and foams,
 - artificial cobwebs,
 - stink bombs.
 - Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: 'For professional users only'.
 - By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
 - The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
- R75**
- Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such substances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in question is or are present in the following circumstances:
 - in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
 - in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxicant category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
 - in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight;
 - in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than:
 - 0,1 % by weight, if the substance is used solely as a pH regulator;
 - 0,01 % by weight, in all other cases;
 - in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight;
 - in the case of a substance for which a condition of one or more of the following kinds is specified in column g (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight:

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Legend

- (i) "Rinse-off products";
(ii) "Not to be used in products applied on mucous membranes";
(iii) "Not to be used in eye products";
(g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration, or in some other way, that does not accord with the condition specified in that column;
(h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the mixture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures commonly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the aim of making a mark or design on his or her body.
3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictest concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appendix 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of paragraph 1 shall apply to that substance.
4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
(a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8);
(b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6).
5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a substance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of application of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect on the date of application of that new or revised classification.
6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the listing of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from the date falling 18 months after entry into force of the act by which that amendment was made.
7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, the mixture is marked with the following information:
(a) the statement "Mixture for use in tattoos or permanent make-up";
(b) a reference number to uniquely identify the batch;
(c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, the IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients shall be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" means any substance added during the process of formulation and present in the mixture for use for tattooing purposes. Impurities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning of this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingredient does not need to be marked in accordance with this Regulation;
(d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1;
(e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentration limit specified in Appendix 13;
(f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) below the concentration limit specified in Appendix 13;
(g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) No 1272/2008.
- The information shall be clearly visible, easily legible and marked in a way that is indelible.
The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on the market, unless the Member State(s) concerned provide(s) otherwise.
Where necessary because of the size of the package, the information listed in the first subparagraph, except for point (a), shall be included instead in the instructions for use.
Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing the procedure with the information marked on the package or included in the instructions for use pursuant to this paragraph.
8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.
9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).
10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

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

None of the ingredients are listed.

Seveso Directive

| 2012/18/EU (Seveso III) | | | | |
|-------------------------|--|---|-----|-------|
| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | | Notes |
| E1 | environmental hazards (hazardous to the aquatic environment, cat. 1) | 100 | 200 | 56) |

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Notation

56) hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

Directive on industrial emissions (VOCs, 2010/75/EU)

| | |
|-------------|--------|
| VOC content | 82,6 % |
|-------------|--------|

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

| Pollutant release and transfer registers (PRTR) | | | |
|---|-----------|--------------|---|
| Name acc. to inventory | CAS No | Remarks | Threshold for releases to air (kg/year) |
| xylene, mixture of isomers | 1330-20-7 | (17) (11) | |
| ethylbenzene | 100-41-4 | (11) | |
| copper | 7440-50-8 | (8) | 100 |

Legend

- (11) Single pollutants are to be reported if the threshold for BTEX (the sum parameter of benzene, toluene, ethyl benzene, xylenes) is exceeded
- (17) Total mass of xylene (ortho-xylene, meta-xylene, para-xylene)
- (8) All metals shall be reported as the total mass of the element in all chemical forms present in the release

Water Framework Directive (WFD)

| List of pollutants (WFD) | | | | |
|---|---|--------|-----------|---------|
| Name of substance | Name acc. to inventory | CAS No | Listed in | Remarks |
| xylene | Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment | | a) | |
| ethylbenzene | Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment | | a) | |
| copper [specific surface area > 0,67 mm ² /mg] | Metals and their compounds | | a) | |

Legend

- a) Indicative list of the main pollutants

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

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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 |
| Acute Tox. | Acute toxicity |
| 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) |
| Aquatic Acute | Hazardous to the aquatic environment - acute hazard |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard |
| Asp. Tox. | Aspiration hazard |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BOD | Biochemical Oxygen Demand |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| COD | Chemical oxygen demand |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DMEL | Derived Minimal Effect Level |
| 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 |
| EL50 | Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| 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) |

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)
 GENERIC EU SDS - NO COUNTRY SPECIFIC DATA

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| Abbr. | Descriptions of used abbreviations |
|-------------|--|
| 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 |
| LD50 | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval |
| LEL | Lower explosion limit (LEL) |
| LL50 | Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality |
| LOEC | Lowest Observed Effect Concentration |
| LOEL | Lowest Observed Effect Level |
| log KOW | n-Octanol/water |
| M-factor | Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present |
| NLP | No-Longer Polymer |
| NOAEC | No Observed Adverse Effect Concentration |
| NOEC | No Observed Effect Concentration |
| NOELR | No Observed Effect Loading Rate |
| 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 RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |
| SVHC | Substance of Very High Concern |
| TWA | Time-weighted average |
| UEL | Upper explosion limit (UEL) |
| VOC | Volatile Organic Compounds |
| 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.

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UN Recommendations on the Transport of Dangerous Good. 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)

| Code | Text |
|------|--|
| H220 | Extremely 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. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.