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

according to Regulation (EU) 2020/878



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

product identifiers

Article No. (manufacturer/supplier) 07

Trade name/designation **BRILAMET Aluminiumbronze**

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

Relevant identified uses:

Coating material to protecting surfaces

Details of the supplier of the safety data sheet 1.3.

supplier (manufacturer/importer/downstream user/distributor)

Vismara Unternehmungen CH-5000 Aarau www.farbladen.ch

Department responsible for information:

laboratory Manager

E-mail (competent person) info@knuchel.ch

1.4. Emergency telephone number

Emergency telephone number 145 (+41 (0)44 251 51 51)

SECTION 2: Hazards identification

Classification of the substance or mixture

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3 / H226 Flammable liquids Flammable liquid and vapour. STOT SE 3 / H336 STOT-single exposure May cause drowsiness or dizziness.

Aquatic Chronic 3 / H412 Hazardous to the aquatic environment Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms





Warning

Hazard statements

Flammable liquid and vapour. H226 H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

If medical advice is needed, have product container or label at hand. P101

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Ground and bond container and receiving equipment. P240

P241 Use explosion-proof electrical equipment.

Use non-sparking tools. P242

P243 Take action to prevent static discharges.

P261 Avoid breathing vapours.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

Wear protective gloves and eye/face protection. P280

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell. P312 P370 + P378 In case of fire: Use extinguishing powder or sand to extinguish. P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool. P403 + P235

P405 Keep locked up.

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P501 Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Supplemental hazard information

not applicable

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. **Mixtures Description** solvent-based alkyd resin, containing the following hazardous substances:

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

EC No. CAS No.	REACH No. Designation	weight-%	
Index No.	classification // Remark		
919-446-0	01-2119458049-33 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) STOT SE 3 H336 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411 / Flam. Liq. 3 H226		
919-857-5	01-2119463258-33 Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics STOT SE 3 H336 / Asp. Tox. 1 H304 / Flam. Liq. 3 H226	5 - 10	
918-481-9	01-2119457273-39 Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics Asp. Tox. 1 H304	5 - 10	
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32 Xylene 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 / Flam. Liq. 3 H226		
203-539-1 107-98-2 603-064-00-3	01-2119457435-35 1-methoxy-2-propanol Flam. Liq. 3 H226 / STOT SE 3 H336		
918-668-5	01-2119455851-35 Hydrocarbons, C9, aromatics, <0.1% benzene STOT SE 3 H336 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411	1 - 5	
202-849-4 100-41-4 601-023-00-4	01-2119489370-35 ethylbenzene Flam. Liq. 2 H225 / Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304	1 - 5	

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

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

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Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Further information

Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

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Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

Xvlene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

WEL, TWA: 220 mg/m3; 50 ppm WEL, STEL: 441 mg/m3; 100 ppm

Remark: (may be absorbed through the skin)

BMGV, TWA: 650 mmol/mol creatinine

Remark: methyl hippuric acid; urine; end of exposure or end of shift

1-methoxy-2-propanol

Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

WEL, TWA: 375 mg/m3; 100 ppm WEL, STEL: 560 mg/m3; 150 ppm

Remark: (may be absorbed through the skin)

ethylbenzene

Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4

WEL, TWA: 441 mg/m3; 100 ppm WEL, STEL: 552 mg/m3; 125 ppm

Remark: (may be absorbed through the skin)

Additional information

TWA: Long-term occupational exposure limit value STEL: short-term occupational exposure limit value

Ceiling: peak limitation

DNEL:

Xylene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7 DNEL long-term dermal (systemic), Workers: 212 mg/kg bw/day

DNEL acute inhalative (local), Workers: 442 mg/m³
DNEL acute inhalative (systemic), Workers: 442 mg/m³

DNEL long-term inhalative (local), Workers:

DNEL long-term inhalative (systemic), Workers: 221 mg/m³ DNEL long-term oral (repeated), Consumer: 12,5 mg/kg bw/day

DNEL long-term dermal (systemic), Consumer: 125 mg/kg bw/day

DNEL acute inhalative (local), Consumer: 260 mg/m³
DNEL acute inhalative (systemic), Consumer: 260 mg/m³
DNEL long-term inhalative (local), Consumer: 65,3 mg/m³
DNEL long-term inhalative (systemic), Consumer: 65,3 mg/m³

ethylbenzene

Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4 DNEL long-term dermal (systemic), Workers: 180 mg/kg bw/day DNEL long-term inhalative (systemic), Workers: 77 mg/m³ DNEL long-term oral (repeated), Consumer: 1,6 mg/kg bw/day DNEL long-term inhalative (systemic), Consumer: 15 mg/m³

1-methoxy-2-propanol

Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2 DNEL long-term dermal (systemic), Workers: 183 mg/kg bw/day

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DNEL acute inhalative (local), Workers: 553,5 mg/m³ DNEL long-term inhalative (systemic), Workers: 369 mg/m³ DNEL long-term oral (repeated), Consumer: 3,3 mg/kg bw/day DNEL long-term dermal (systemic), Consumer: 18,1 mg/kg bw/day DNEL long-term inhalative (systemic), Consumer: 43,9 mg/m³

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

EC No. 919-446-0

DNEL long-term dermal (local), Workers: 44 mg/kg DNEL long-term dermal (systemic), Workers: 44 mg/kg DNEL acute inhalative (local), Workers: 570 mg/m³ DNEL acute inhalative (systemic), Workers: 570 mg/m³ DNEL long-term inhalative (local). Workers: 330 mg/m³ DNEL long-term inhalative (systemic), Workers: 330 mg/m³ DNEL long-term oral (repeated), Consumer: 26 mg/kg DNEL long-term dermal (local), Consumer: 26 mg/kg DNEL long-term dermal (systemic), Consumer: 26 mg/kg DNEL acute inhalative (local), Consumer: 570 mg/m³

DNEL long-term inhalative (local), Consumer: 71 mg/m³

DNEL long-term inhalative (systemic). Consumer: 71 mg/m³

PNEC:

Xvlene

Index No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

PNEC aquatic, freshwater: 0,327 mg/L PNEC aquatic, marine water: 0,327 mg/L PNEC sediment, freshwater: 12,46 mg/kg PNEC sediment, marine water: 12,46 mg/kg PNEC sewage treatment plant (STP): 6,58 mg/L

soil: 2,31 mg/kg

ethylbenzene

Index No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4

PNEC aquatic, freshwater: 0,1 mg/L PNEC aquatic, marine water: 0,01 mg/L PNEC sediment, freshwater: 13,7 mg/kg PNEC sediment, marine water: 1,37 mg/kg

PNEC, soil: 2,68 mg/kg

PNEC sewage treatment plant (STP): 9,6 mg/L

1-methoxy-2-propanol

Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

PNEC aquatic, freshwater: 10 mg/L PNEC aquatic, marine water: 1 mg/L PNEC aquatic, intermittent release: 100 mg/L

PNEC sediment, freshwater: 52,3 mg/kg PNEC sediment, marine water: 5,2 mg/kg

PNEC, soil: 4,59 mg/kg

PNEC sewage treatment plant (STP): 100 mg/L

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material > 0,4 mm; Breakthrough time: > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

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Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:

Colour:

Odour:

Characteristic

Odour threshold:

Melting point/freezing point:

Liquid

refer to label

characteristic

not applicable

not applicable

Initial boiling point and boiling range: 139 °C

Source: Xylene

Flammability: Flammable liquid and vapour.

Lower and upper explosion limit:

Lower explosion limit: 0.72 Vol-% Upper explosion limit: 8 Vol-%

Source: Xylene

Flash point: 25 °C

Method: DIN 53213

Auto-ignition temperature: 240 °C

Source: Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2%

aromatics

Decomposition temperature: not applicable pH at 20 °C: not applicable Cinematic viscosity (40°C): < 400 mm²/s

Viscosity at 20 °C: 900 - 1000 mPas

Solubility(ies):

Water solubility at 20 °C: insoluble
Partition coefficient: n-octanol/water: see section 12

Vapour pressure at 20 °C: 8 mbar

Source: Xylene

Density and/or relative density:

Density at 20 °C: 0.98 g/cm³

Relative vapour density: not applicable particle characteristics: not applicable

9.2. Other information

Solid content: 50 weight-%

solvent content:

Organic solvents: 50 weight-% Water: 0 weight-%

Solvent separation test: < 3 weight-% (ADR/RID)

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

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

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10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

not applicable

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

Acute toxicity

Xylene

oral, LD50, Rat, male: 5,523 mg/kg

Method: EU Test B.1

inhalative (vapours), LC50, Rat, male: 6700 ppm (4 h)

ethylbenzene

oral, LD50, Rat: 3,5 mg/kg

dermal, LD50, Rabbit: 15,4 mg/kg

1-methoxy-2-propanol

oral, LD50, Rat: 4,016 mg/kg

Method: EU Test B.1

Depression of central nervous system

dermal, LD50, Rat: > 2 mg/kg

Method: EU Test B.3

inhalative (vapours), LC50, Rat: 36,67 mg/L (4 h)

Method: OECD 403

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

oral, LD50, Rat: > 15000 mg/kg dermal, LD50, Rabbit: > 3160 mg/kg

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

oral, LD50, Rat: 15000 mg/kg

Method: OECD 401

dermal, LD50, Rat: > 2000 mg/kg dermal, LD50, Rabbit: > 4 mg/kg

inhalative (vapours), LC50, Rat: 13,1 mg/L (4 h)

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 5000 mg/kg

Method: OECD 402

inhalative (dust and mist), LC50, Rat: > 5 mg/L (4 h)

Method: OECD 403

Hydrocarbons, C9, aromatics, <0.1% benzene

oral, LD50, Rat: 3492 mg/kg

dermal, LD50, Rabbit: > 3160 mg/kg

inhalative (vapours), LC50, Rat: 6 mg/m3 10 (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

ethylbenzene

Skin, Rabbit (24 h)

Causes mild skin irritation.

eyes, Rabbit

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

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Causes slight eye irritation

1-methoxy-2-propanol

Skin (4 h)

Method: EU Test B.4

Not to be classified as skin etching/irritant.

eyes

Method: EU Test B.5

Not to be classified as severe eye damage or eye irritation.

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Skin (4 h)

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

eves

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

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Skin (4 h)

Causes skin irritation.

eyes

Causes serious eye irritation.

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

Skin (4 h)

Repeated exposure may cause skin dryness or cracking.

eyes

No data available

Hydrocarbons, C9, aromatics, <0.1% benzene

Skin (4 h)

Method: OECD 404

Not to be classified as skin etching/irritant.

eves

Method: OECD 405

Not to be classified as severe eye damage or eye irritation.

Respiratory or skin sensitisation

1-methoxy-2-propanol

Skin, Guinea pig: ; Evaluation Not to be classified as skin sensitising.

Method: Directive 67/548/EEC, Annex V, B.6.

Respiratory system, Guinea pig: ; Evaluation not sensitising.

Method: Directive 67/548/EEC, Annex V, B.6.

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Skin: ; Evaluation Based on available data, the classification criteria are not met.

Respiratory system: ; Evaluation Based on available data, the classification criteria are not met.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Skin:

No data available (human)

Respiratory system:

No data available

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

Skin:

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

Respiratory system:

No data available

Hydrocarbons, C9, aromatics, <0.1% benzene

Skin:

Method: OECD 406

Not to be classified as skin sensitising.

Respiratory system: No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

ethylbenzene

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Germ cell mutagenicity; Evaluation negative

Hamster; Mouse; ovaries

Carcinogenicity; Evaluation Carc. Cat. 2

Method: Group II B (IARC): Possible carcinogenic to humans (ethylbenzene)

human

1-methoxy-2-propanol

Germ cell mutagenicity; Evaluation Not to be classified as germ cell mutagen (mutagen).

Carcinogenicity; Evaluation Does not qualify as a carcinogen.

Method: OECD 453

Reproductive toxicity; Evaluation Does not qualify as a carcinogen.

Method: OECD 416

The toxic effect on reproduction was only demonstrated in animal experiments after the administration of very high amounts

of substances. Lactation

No data available

teratogenicity; Evaluation No effect on fertility in animal studies.

In animal experiments, the substance showed a fruit-damaging effect in high doses, which were toxic for the mother $\frac{1}{2}$

animals.

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Germ cell mutagenicity; Evaluation Based on available data, the classification criteria are not met.

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

Reproductive toxicity; Evaluation Based on available data, the classification criteria are not met.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Lactation

No data available

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Lactation

No data available

Hydrocarbons, C9, aromatics, <0.1% benzene

Germ cell mutagenicity

Not to be classified as germ cell mutagen (mutagen).

Carcinogenicity

There are in vivo studies that indicate positive results of kidney cancer.

Reproductive toxicity

Does not qualify as a carcinogen.

In vitro mutagenicity; Evaluation positive

STOT-single exposure; STOT-repeated exposure

May cause drowsiness or dizziness.

Xylene

Specific target organ toxicity (repeated exposure)

Liver and kidney damage; central nervous system

Causes damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

Liver and kidney damage; central nervous system; hearing organs

ethylbenzene

Repeated dose toxicity, Rat: 75 mg/kg

Method OECD 407

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

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Depression of central nervous system movement disorders; headache; Vomiting

1-methoxy-2-propanol

Specific target organ toxicity (single exposure)

Inhalation; central nervous system; May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) Evaluation Not to be classified as specific target organ toxic (repeated exposure).

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Specific target organ toxicity (single exposure) Evaluation Based on available data, the classification criteria are not met. Specific target organ toxicity (repeated exposure) Evaluation Based on available data, the classification criteria are not met.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Specific target organ toxicity (single exposure)

May cause respiratory irritation.; May cause drowsiness or dizziness.

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.; After absorption: cardiovascular disorders, cyanosis, agitation After absorption of large quantities: Drowsiness, CNS disorders Other dangerous properties cannot be excluded.

Specific target organ toxicity (repeated exposure)

No data available

Hydrocarbons, C9, aromatics, <0.1% benzene

Specific target organ toxicity (single exposure)

May cause respiratory irritation and depression of central nervous system with drowsiness, dizziness, weakness, loss of consciousness, nausea and headache.

Specific target organ toxicity (repeated exposure)

No data available

Aspiration hazard

1-methoxy-2-propanol

Aspiration hazard

Not to be classified as aspirational.

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Aspiration hazard; Evaluation May be fatal if swallowed and enters airways.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Aspiration hazard

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

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

Aspiration hazard

Aspiration can lead to pulmonary edema and pneumonia.; May be fatal if swallowed and enters airways.

Hydrocarbons, C9, aromatics, <0.1% benzene

Aspiration hazard

May be fatal if swallowed and enters airways.

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatique, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

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

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

Do not allow to enter into surface water or drains.

12.1. Toxicity

Xylene

Fish toxicity, LC50, fish: 2,6 mg/L (96 h)

Method: OECD 203

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 4,6 mg/L (72 h)

Method: OECD 201

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 4,6 mg/L (72 h)

Method: OECD 201

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout) (96 h)

Method: OECD 203

Daphnia toxicity, IC50, Daphnia magna: 1 mg/L (24 h)

Method: OECD 202

Algae toxicity, EC50, Selenastrum capricornutum: 2,2 mg/L (73 h)

Method: OECD 201

Daphnia toxicity, growth test (Eb-Cx) 10%", Daphnia magna: 1,91 mg/L (21 d)

Method: OECD 211

Bacteria toxicity, NOEC, Activated sludge: 16 mg/L (28 t)

Method: OECD 301 F

ethylbenzene

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 4,2 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea) 1,8 - 2,4 mg/L (48 h)

Algae toxicity, EC50, Skeletonema costatum: 4,9 mg/L (72 h)

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 7,2 mg/L (48 h)

Shellfish Toxicity, LC50, Mysidopsis bahia: > 5,2 mg/L (48 h) Toxicity of Microoganisms, EC50, microorganisms: 96 mg/L (24 h)

1-methoxy-2-propanol

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 1 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna 21,1 - 25,9 mg/L (48 h)

Method: ESR-ES-15

Fish toxicity, LC50, Leuciscus idus (golden orfe) 4,6 - 10 mg/L (96 h)

Method: DIN 38412 / part 15

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1 mg/L (7 d)

Acute aquatic toxicity Evaluation Based on available data, the classification criteria are not met.

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 20,8 mg/L (96 h)

Bacteria toxicity, IC50, Activated sludge: 1 mg/L (3 h)

Method: OECD 209

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 220 mg/L (96 h)

Daphnia toxicity, LC50, crangon crangon: 4,3 mg/L (96 h)

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Fish toxicity, LL50:, Oncorhynchus mykiss (Rainbow trout) 10 - 30 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EL50, Daphnia magna (Big water flea) 10 - 22 mg/L (48 h)

Method: OECD 202

Algae toxicity, ELb50, Pseudokirchneriella subcapitata 4,1 - 4,6 mg/L (72 h)

Method: OECD 201

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

Daphnia toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): 0,21 mg/L (28 d)

Hydrocarbons, C9, aromatics, <0.1% benzene

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 9,2 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: 1,6 mg/L (48 h)

Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

Xylene

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 4,36 mg/L (73 h)

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Method: OECD 201

Fish toxicity, NOEC, fish: > 1,3 mg/L (56 d)

Daphnia toxicity, NOEC, Daphnia pulex (water flea): 1,17 mg/L (7 d)

Method: US EPA 600/4-91-003

Daphnia toxicity, EL50, Daphnia magna: 2,9 mg/L (21 d)

Method: OECD 211

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 2,2 mg/L (73 h)

Method: OECD 201

Daphnia toxicity, LOEC:, Daphnia magna (Big water flea): 3,16 mg/L (21 d)

Method: OECD 211

Algae toxicity, growth test (Eb-Cx) 10%", Pseudokirchneriella subcapitata: 0,72 mg/L (73 h)

Method: OECD 201

ethylbenzene

Daphnia toxicity, NOEC, Ceriodaphnia dubia (Wasserfloh): 0,96 mg/L (7 d)

Daphnia toxicity, LC50, Ceriodaphnia dubia (Wasserfloh): 3,6 mg/L (7 d)

Bacteria toxicity, EC50, Nitrosomonas sp: 96 mg/L (24 h)

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 3,4 mg/L (96 h) Daphnia toxicity, LOEC:, Ceriodaphnia dubia (Wasserfloh): 1,7 mg/L (7 d)

1-methoxy-2-propanol

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1 mg/L (7 d)

Chronic aquatic toxicity Evaluation Based on available data, the classification criteria are not met.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Daphnia toxicity, EC50: 9 mg/L (48 h)

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 0,02 mg/L (21 d)

Method: OECD 211

12.2. Persistence and degradability

Xylene

Persistence and degradability:

Method: Rapid photochemical oxidation in air

Biodegradation: 98 percent (28 d)

Readily biodegradable (according to OECD criteria)

ethylbenzene

Biodegradation, aerobic: 70 - 80 percent (28 d); Evaluation Readily biodegradable (according to OECD criteria)

1-methoxy-2-propanol

Biodegradation: 96 percent (28 d); Evaluation Readily biodegradable (according to OECD criteria).

Method: OECD 301E

Persistence and degradability:

No data available

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Biodegradation: Evaluation Not readily biodegradable (according to OECD criteria)

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Biodegradation: 74,7 percent (28 d)

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics Biodegradation: Evaluation Not readily biodegradable (according to OECD criteria)

Hydrocarbons, C9, aromatics, <0.1% benzene

Biodegradation: Evaluation Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

Distribution coefficient n-octanol/water (log KOW): 3,49

ethylbenzene

Distribution coefficient n-octanol/water (log KOW): 3,6

1-methoxy-2-propanol

Distribution coefficient n-octanol/water (log KOW): < 1; Evaluation The product has a low bioaccumulation potential

Hvdrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

Partition coefficient: n-octanol/water:

No further relevant information available.

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Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Distribution coefficient n-octanol/water (log KOW):

No data available

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

Distribution coefficient n-octanol/water (log KOW):

No data available

Hydrocarbons, C9, aromatics, <0.1% benzene

Distribution coefficient n-octanol/water (log KOW): 3,7 - 4,5

Bioconcentration factor (BCF)

1-methoxy-2-propanol

Bioconcentration factor (BCF): 3,16

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Bioconcentration factor (BCF): 500

high

12.4. Mobility in soil

Xylene

soil: Evaluation Absorbs slowly into the soil Water: Evaluation Floats on the water

1-methoxy-2-propanol

soil: Evaluation Highly mobile in the ground

Water: Evaluation The product is insoluble in water.

Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics

soil:

No further relevant information available.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

soil:

No data available

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

soil:

No data available

Hydrocarbons, C9, aromatics, <0.1% benzene

soil:

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product

Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

List of proposed waste codes/waste designations in accordance with EWC

080111* Waste paint and varnish containing organic solvents or other dangerous substances

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package

Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

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

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14.1. UN number or ID number

UN 1263

14.2. UN proper shipping name

Land transport (ADR/RID): Paint
Sea transport (IMDG): PAINT
Air transport (ICAO-TI / IATA-DGR): Paint

14.3. Transport hazard class(es)

Land transport (ADR/RID): KEINE GÜTER DER KLASSE 3 bei Gebinden > 450 l Klasse 3

Sea transport (IMDG)

for packages < = 450 litres: Transport in accordance with the provisi ons of paragraph 2.3.2.5 of the

IMDG Cod e.

Air transport (ICAO-TI / IATA-DGR) 3

14.4. Packing group

Ш

14.5. Environmental hazards

Land transport (ADR/RID) not applicable

Marine pollutant not applicable

14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

Tunnel restriction code D/E

Sea transport (IMDG)

EmS-No. F-E, S-E

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

EU legislation

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 493

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

15.2. Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
919-446-0	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	01-2119458049-33
919-857-5	Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics	01-2119463258-33
918-481-9	Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics	01-2119457273-39
215-535-7	Xylene	01-2119488216-32
1330-20-7		

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203-539-1 107-98-2	1-methoxy-2-propanol	01-2119457435-35
918-668-5	Hydrocarbons, C9, aromatics, <0.1% benzene	01-2119455851-35
202-849-4 100-41-4	ethylbenzene	01-2119489370-35

SECTION 16: Other information

Full text of classification in section 3

STOT SE 3 / H336 STOT-single exposure May cause drowsiness or dizziness.

Asp. Tox. 1 / H304 Aspiration hazard May be fatal if swallowed and enters airways. Aquatic Chronic 2 / H411 Hazardous to the aquatic environment Toxic to aquatic life with long lasting effects.

Flam. Liq. 3 / H226 Flammable liquids Flammable liquid and vapour. Acute Tox. 4 / H312 Acute toxicity (dermal) Harmful in contact with skin.

Acute Tox. 4 / H332 Acute toxicity (inhalative) Harmful if inhaled. Skin Irrit. 2 / H315 Skin corrosion/irritation Causes skin irritation. Eye Irrit. 2 / H319 Serious eye damage/eye irritation Causes serious eye irritation.

STOT SE 3 / H335 STOT-single exposure May cause respiratory irritation.

STOT RE 2 / H373 STOT-repeated exposure May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it

is conclusively proven that no other routes of

exposure cause the hazard).

Flam. Liq. 2 / H225 Flammable liquids Highly flammable liquid and vapour.

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] Flam. Liq. 3 Flammable liquids On basis of test data. STOT SE 3 STOT-single exposure Calculation method. Aquatic Chronic 3 Hazardous to the aquatic environment Calculation method.

Abbreviations and acronyms

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL Occupational Exposure Limit Value

BLV Biological Limit Value CAS Chemical Abstracts Service

Classification, Labelling and Packaging CLP CMR Carcinogenic, Mutagenic and Reprotoxic

German Institute for Standardization / German industrial standard DIN

DNEL Derived No-Effect Level

EAKV European Waste Catalogue Directive

EC Effective Concentration EC **European Community** European Standard ΕN

IATA-DGR International Air Transport Association - Dangerous Goods Regulations

IBC Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous ICAO-TI

Goods by Air

IMDG Code International Maritime Code for Dangerous Goods ISO International Organization for Standardization

Lethal Concentration LC

LD Lethal Dose

MARPOL Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

Organisation for Economic Cooperation and Development **OECD**

PBT persistent, bioaccumulative, toxic Predicted No Effect Concentration **PNEC**

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

UN **United Nations**

VOC Volatile Organic Compounds

vPvB very persistent and very bioaccumulative

Further information

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

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) according to Regulation (EU) 2020/878

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The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

^{*} Data changed compared with the previous version