

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

Article No.: 495
Print date: 19.12.2019
Version: 7.7

Epoxy-Verdüner
Revision date: 14.12.2019
Issue date: 14.12.2019

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

1.1. product identifiers

Article No. (manufacturer/supplier) 495
Trade name/designation Epoxy-Verdüner

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

Relevant identified uses:

Paint to protect surfaces

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Vismara Unternehmungen CH-5000 Aarau
+41(0)62 842 93 34 www.farbladen.ch

Dept. responsible for information:

laboratory Manager
E-mail (competent person) info@farbladen.ch

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
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 SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
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



Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.

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P260	Do not breathe vapour.
P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
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.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Keep locked up.
P501	Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

2,6-dimethylheptan-4-one
 Hydrocarbons, C9, aromatics
 Xylene

Supplemental Hazard information (EU)

not applicable

2.3. Other hazards

No information available.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description Solvents/Thinner

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

EC No. CAS No. INDEX No.	REACH No. Designation classification // Remark	Wt %
203-550-1 108-10-1 606-004-00-4	01-2119473980-30 4-methylpentan-2-one Flam. Liq. 2 H225 / Acute Tox. 4 H332 / Eye Irrit. 2 H319 / STOT SE 3 H335	20 - 25
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	20 - 25
918-668-5 64742-95-6 649-356-00-4	01-2119455851-35 Hydrocarbons, C9, aromatics Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H335 / STOT SE 3 H336 / Aquatic Chronic 2 H411	20 - 25
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	12.5 - 20
203-620-1 108-83-8 606-005-00-X	2,6-dimethylheptan-4-one Flam. Liq. 3 H226 / STOT SE 3 H335 Specific concentration limit (SCL): STOT SE 3 H335 >= 10	10 - 12.5

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202-849-4	01-2119489370-35	
100-41-4	ethylbenzene	5 - 10
601-023-00-4	Flam. Liq. 2 H225 / Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304	

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

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

After 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

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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 (TRBS 2153)".

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:

4-methylpentan-2-one

INDEX No. 606-004-00-4 / EC No. 203-550-1 / CAS No. 108-10-1

WEL, TWA: 208 mg/m³; 50 ppm

WEL, STEL: 416 mg/m³; 100 ppm

Remark: (may be absorbed through the skin)

BMGV, TWA: 20 µmol/L

Remark: 4-methylpentan - 2-one; urine; end of exposure or end of shift

Xylene

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)

2,6-dimethylheptan-4-one

INDEX No. 606-005-00-X / EC No. 203-620-1 / CAS No. 108-83-8

WEL, TWA: 148 mg/m³; 25 ppm

ethylbenzene

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

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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

2,6-dimethylheptan-4-one

INDEX No. 606-005-00-X / EC No. 203-620-1 / CAS No. 108-83-8

DNEL long-term oral (repeated), Workers:
DNEL long-term dermal (systemic), Workers: 80 mg/kg
DNEL acute inhalative (local), Workers: 290 mg/m³
DNEL acute inhalative (systemic), Workers: 290 mg/m³
DNEL long-term inhalative (local), Workers: 290 mg/m³
DNEL long-term inhalative (systemic), Workers: 479 mg/m³
DNEL long-term oral (repeated), Consumer: 7,14 mg/kg bw/day
DNEL long-term dermal (systemic), Consumer: 28,5 mg/kg
DNEL acute inhalative (local), Consumer: 145 mg/m³
DNEL acute inhalative (systemic), Consumer: 145 mg/m³
DNEL long-term inhalative (local), Consumer: 145 mg/m³
DNEL long-term inhalative (systemic), Consumer: 171 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
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

4-methylpentan-2-one

INDEX No. 606-004-00-4 / EC No. 203-550-1 / CAS No. 108-10-1

DNEL long-term dermal (systemic), Workers: 11,8 mg/kg bw/day
DNEL acute inhalative (local), Workers: 208 mg/m³
DNEL acute inhalative (systemic), Workers: 208 mg/m³
DNEL long-term inhalative (local), Workers: 83 mg/m³
DNEL long-term inhalative (systemic), Workers: 83 mg/m³
DNEL long-term oral (repeated), Consumer: 4,2 mg/kg bw/day
DNEL long-term dermal (systemic), Consumer: 4,2 mg/kg bw/day
DNEL acute inhalative (local), Consumer: 155,2 mg/m³

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DNEL acute inhalative (systemic), Consumer: 155,2 mg/m³
DNEL long-term inhalative (local), Consumer: 14,7 mg/m³
DNEL long-term inhalative (systemic), Consumer: 14,7 mg/m³

Hydrocarbons, C9, aromatics

INDEX No. 649-356-00-4 / EC No. 918-668-5 / CAS No. 64742-95-6

DNEL long-term dermal (systemic), Workers: 25 mg/kg bw/day
DNEL long-term inhalative (systemic), Workers: 150 mg/m³
DNEL long-term oral (repeated), Consumer: 11 mg/kg
DNEL long-term dermal (systemic), Consumer: 11 mg/kg bw/day
DNEL long-term inhalative (systemic), Consumer: 32 mg/m³

PNEC:

Xylene

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

2,6-dimethylheptan-4-one

INDEX No. 606-005-00-X / EC No. 203-620-1 / CAS No. 108-83-8

PNEC sediment, freshwater: 0,46 mg/kg
PNEC sediment, marine water: 0,46 mg/kg
PNEC, soil: 0,0746 mg/kg
PNEC sewage treatment plant (STP): 2,55 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

4-methylpentan-2-one

INDEX No. 606-004-00-4 / EC No. 203-550-1 / CAS No. 108-10-1

PNEC aquatic, freshwater: 0,6 mg/l
PNEC aquatic, marine water: 0,06 mg/l
PNEC aquatic, intermittent release: 1,5 mg/l
PNEC sediment, freshwater: 8,27 mg/kg dw
PNEC sediment, marine water: 0,83 mg/kg dw
PNEC, soil: 1,3 mg/kg dw
PNEC sewage treatment plant (STP): 27,5 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. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

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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 (maximum wearing 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.

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

Appearance:

Physical state: Liquid
Colour: refer to label

Odour: characteristic

Odour threshold: not applicable

pH at 20 °C: not applicable

Melting point/freezing point: not applicable

Initial boiling point and boiling range: 114 °C
Source: 4-methylpentan-2-one

Flash point: 16 °C
Method: DIN 53213

Evaporation rate: not applicable

flammability

Burning time (s): not applicable

Upper/lower flammability or explosive limits:

Lower explosion limit: 1.05 Vol-%
Upper explosion limit: 13.7 Vol-%
Source: 1-methoxy-2-propanol

Vapour pressure at 20 °C: 116 mbar
Source: 2,6-dimethylheptan-4-one

Vapour density: not applicable

Relative density:
Density at 20 °C: 0.86 g/cm³

Solubility(ies):
Water solubility (g/L) at 20 °C: partially soluble

Partition coefficient: n-octanol/water: see section 12

Auto-ignition temperature: 287 °C
Source: 1-methoxy-2-propanol

Decomposition temperature: not applicable

Viscosity at °C: 10 - 12 sec DIN 4 mm

Explosive properties: not applicable

Oxidising properties: not applicable

9.2. Other information

Solid content (%): 0 Wt %

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solvent content:
Organic solvents: 100 Wt %
Water: 0 Wt %

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

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

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

11.1. Information on toxicological effects

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

2,6-dimethylheptan-4-one

oral, LD50, Rat: 5750 mg/kg

dermal, LD50, Rat: > 2000 mg/kg

Method: OECD 402

dermal, LD50, Rabbit: 16000 mg/kg

inhalative (vapours), LC50, Rat: 14,5 mg/l (4 h)

Method: OECD 403

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

4-methylpentan-2-one

oral, LD50, Rat: 2080 mg/kg

Method: OECD 401

dermal, LD50, Rat: > 2000 mg/kg

Method: OECD 402

No mortality was observed at this dosage.

inhalative (vapours), LC50, Rat: 11,6 mg/l (4 h)

Method: OECD 403

headache; dizziness; Unconsciousness

Hydrocarbons, C9, aromatics

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oral, LD50, Rat: 3492 mg/kg
Method: OECD 401
dermal, LD50, Rabbit: > 3160 mg/kg
Method: OECD 402

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye irritation.

ethylbenzene

Skin, Rabbit (24 h)
Causes mild skin irritation.
eyes, Rabbit
Causes slight eye irritation

2,6-dimethylheptan-4-one

Skin
Slight skin irritation
eyes, Rabbit
Method: OECD 405
No irritant effect; Fumes can irritate the eyes.
Inhalation
Inhalation of fumes or mists may irritate the respiratory tract.

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.

4-methylpentan-2-one

Skin, Rabbit (4 h)
Method: OECD 404
Degreases the skin and makes it dry and rough. ; No skin irritation
eyes
Method: OECD 405

Hydrocarbons, C9, aromatics

Skin (4 h)
Method: OECD 404
Not to be classified as skin etching/irritant.
eyes
Method: OECD 405
Not to be classified as severe eye damage or eye irritation.

Respiratory or skin sensitisation

2,6-dimethylheptan-4-one

Skin, Maximization test, Guinea pig: ; evaluation not sensitising.
Method: OECD 406

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.

4-methylpentan-2-one

Skin, Guinea pig: ; evaluation not sensitising.
Method: OECD 406
Maximization test; No data available (human)

Hydrocarbons, C9, aromatics

Skin:
Method: OECD 406
Not to be classified as skin sensitising.

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Respiratory system:
No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

ethylbenzene

Germ cell mutagenicity; evaluation negative
Hamster; Mouse; ovaries
Carcinogenicity; evaluation Carc. Cat. 2
Method: Group II B (IARC): Possible carcinogenic to humans (ethylbenzene)
human

2,6-dimethylheptan-4-one

Germ cell mutagenicity; evaluation Not known as mutagenic.
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.
Lactation; evaluation Based on available data, the classification criteria are not met.

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 animals.

4-methylpentan-2-one

Germ cell mutagenicity; evaluation It's not considered mutagenic.
Carcinogenicity; evaluation It's not considered carcinogenic.
Method: NOAEC
Rat; 1.84 mg/l; (Target organs: liver)(Inhalation; 2 years; frequency of treatment: 5 days / week) Tumors were observed after inhalation tests in rats over long periods of time.
Reproductive toxicity; evaluation It is considered non-toxic to reproduction.
Method: NOAEL
parents; 4.1 mg/l
teratogenicity; evaluation It is not considered teratogenic.
Method: NOAEL
Rat; 4.1 mg/l; (inhalative)(OECD test guideline 414) Shown no fruit-damaging effect in animal experiments.
Genotoxicity in vitro; evaluation negative
(chromosome aberration test in vitro; mouse lymphoma cells; yes) (OECD test guideline 476) not unambiguous
(chromosome aberration test in vitro; mouse lymphoma cells; no) (OECD test guideline 476) negative (reverse mutation test on bacteria; Salmonella typhimurium; with and without metabolic activation) (OECD test guideline 471) negative
(chromosome aberration test in vitro; hepatocytes of rats; with and without metabolic activation) (OECD test guideline 473) Translated with www.DeepL.com/Translator
Genotoxicity in vivo; evaluation negative
Method: OECD 474
Mouse; (In vivo microkernel test; mouse, CD1) (intraperitoneal;)
Reproductive toxicity; evaluation No effect on fertility in animal studies.
Method: NOAEL
Rat; OECD 416; F1

Hydrocarbons, C9, aromatics

Germ cell mutagenicity
Not to be classified as germ cell mutagen (mutagen).
Carcinogenicity
No data available
Reproductive toxicity
No data available

STOT-single exposure; STOT-repeated exposure

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May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

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

RTECS-no.;; DA0700000

Depression of central nervous system

movement disorders; headache; Vomiting

2,6-dimethylheptan-4-one

Specific target organ toxicity (single exposure) evaluation Inhalation of high vapour concentrations may cause impairment of the central nervous system.

headache; dizziness; Nausea

Specific target organ toxicity (repeated exposure) evaluation Repeated exposure may cause skin dryness or cracking.

Specific target organ toxicity (single exposure), Category 1

Causes kidney damage in male rats that is considered irrelevant to humans.

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).

4-methylpentan-2-one

Specific target organ toxicity (single exposure)

Nose, respiratory system; May cause respiratory irritation.; Experiences with human exposure.

Specific target organ toxicity (repeated exposure)

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

Repeated dose toxicity, Rat: 1,84 mg/l

Method NOAEL

inhalative (vapours); liver; kidneys

Repeated dose toxicity, Rat: 250 mg/kg bw/day

Method NOAEL

oral; 13 weeks; liver, kidneys

Hydrocarbons, C9, aromatics

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

No data available

Aspiration hazard

May be fatal if swallowed and enters airways.

2,6-dimethylheptan-4-one

Aspiration hazard; evaluation Based on available data, the classification criteria are not met.

1-methoxy-2-propanol

Aspiration hazard

Not to be classified as aspirational.

4-methylpentan-2-one

Aspiration hazard; evaluation Not applicable

Hydrocarbons, C9, aromatics

Aspiration hazard

May be fatal if swallowed and enters airways.

Practical experience/human evidence

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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, fatigue, 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.

SECTION 12: Ecological information

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%⁴, 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 Microorganisms, EC50, microorganisms: 96 mg/l (24 h)

2,6-dimethylheptan-4-one

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 30 mg/l (96 h)

Method: OECD 203

Daphnia toxicity, EC50: 37,2 mg/l (48 h)

Method: OECD 202

Bacteria toxicity, LC/EC/IC 50: > 100 mg/l ; evaluation slightly toxic estimated

Algae toxicity, LC/EC/IC 50 10 - 100 mg/l; evaluation Harmful

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 37,3 mg/l (72 h)

Method: OECD 201

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

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4-methylpentan-2-one

Fish toxicity, LC50, Danio rerio (Zebrafisch) (96 h)

Method: OECD 203

Static test

Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 200 mg/l (48 h)

Method: OECD 202

Static test

Algae toxicity, Lemna gibba (Bucklige Wasserlinse): > 146 mg/l (7 d)

end; Rate of growth

Bacteria toxicity, EC50, Pseudomonas putida: 275 mg/l (16 h)

Hydrocarbons, C9, aromatics

Daphnia toxicity, EL50, Daphnia magna: 3,2 mg/l (48 h)

Method: OECD 202

Algae toxicity, EL50, Pseudokirchneriella subcapitata: 3,8 mg/l (72 h)

Method: OECD 201

Fish toxicity, LL50, Oncorhynchus mykiss (Rainbow trout): 9,2 mg/l (96 h)

Method: OECD 203

Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

Xylene

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

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.

4-methylpentan-2-one

Daphnia toxicity, NOEC, Daphnia magna (Big water flea) 30 - 35 mg/l (21 d)

Method: OECD 211

semistatic

Hydrocarbons, C9, aromatics

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 0,07 mg/l (72 h)

Method: OECD 201

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)

*

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2,6-dimethylheptan-4-one

Persistence and degradability: evaluation Rapid photochemical oxidation in air
Biodegradation: 88 percent (20 d); evaluation Readily biodegradable (according to OECD criteria)
Method: OECD 301D

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

4-methylpentan-2-one

Biodegradation: 83 percent (28 d); evaluation Readily biodegradable (according to OECD criteria).
Method: OECD 301F

Hydrocarbons, C9, aromatics

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

12.3. Bioaccumulative potential

Xylene

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

ethylbenzene

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

2,6-dimethylheptan-4-one

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

1-methoxy-2-propanol

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

4-methylpentan-2-one

Partition coefficient: n-octanol/water: evaluation Bioaccumulation is not to be expected.
Distribution coefficient n-octanol/water (log KOW): 1,9
Method: OECD 117

Hydrocarbons, C9, aromatics

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

Bioconcentration factor (BCF)

1-methoxy-2-propanol

Bioconcentration factor (BCF): 3,16

12.4. Mobility in soil

Xylene

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

2,6-dimethylheptan-4-one

soil: evaluation Absorbed 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.

4-methylpentan-2-one

Air: evaluation Moderately volatile
Water: evaluation The product is water soluble.
soil: evaluation Weak adsorption

Hydrocarbons, C9, aromatics

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. Other adverse effects

No information available.

SECTION 13: Disposal considerations

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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.

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

140603* other solvents and solvent mixtures

*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

14.1. UN number

UN 1993

14.2. UN proper shipping name

Land transport (ADR/RID):

Flammable liquid, n.o.s.
(4-METHYLPENTAN-2-ONE)

Sea transport (IMDG):

FLAMMABLE LIQUID, N.O.S.
(4-METHYLPENTAN-2-ONE)

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

Flammable liquid, n.o.s.
(4-METHYLPENTAN-2-ONE)

14.3. Transport hazard class(es)

3

14.4. Packing group

II

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. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

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

VOC-value (in g/L): 855

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2. Chemical Safety Assessment

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

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EC No. CAS No.	Designation	REACH No.
215-535-7 1330-20-7	Xylene	01-2119488216-32
918-668-5 64742-95-6	Hydrocarbons, C9, aromatics	01-2119455851-35
203-539-1 107-98-2	1-methoxy-2-propanol	01-2119457435-35
202-849-4 100-41-4	ethylbenzene	01-2119489370-35

SECTION 16: Other information

Full text of classification in section 3

Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin 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).
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

Classification procedure

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

Flam. Liq. 2	Flammable liquids	On basis of test data.
Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.
STOT RE 2	STOT-repeated exposure	Calculation method.
Asp. Tox. 1	Aspiration hazard	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
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
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
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

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OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
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]

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 chapter 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