

Hand protection

For prolonged or repeated handling the following glove material must be used: LLDPE with at least 0.4 mm thickness, 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. Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection

Wear closely fitting protective glasses in case of splashes.

Protective clothing

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 chapter 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: **n.a.**

Melting point/freezing point: **n.a.**

Initial boiling point and boiling range: **150 °C**
 Method: calculated value
 Source: Hydrocarbons, C9, aromatics

Flash point: **47 °C**

Evaporation rate: **not applicable**

Flammability (solid, gas): **not applicable**
 Burning time (s): **not applicable**

Upper/lower flammability or explosive limits:
 Lower explosion limit: **1,4 Vol-%**
 Method: calculated value
 Upper explosion limit: **7 Vol-%**
 Method: calculated value
 Source: Hydrocarbons, C9, aromatics

Vapour pressure at 20 °C: **5,5949 mbar**
 Method: calculated value

Vapour density: **not applicable**

Relative density:
 Density at 20 °C: **0,90 g/cm³**
 Method: ISO 15212

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

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

Auto-ignition temperature: **485 °C**
 Method: calculated value
 Source: Hydrocarbons, C9, aromatics

Decomposition temperature: **not applicable**

Viscosity at 20 °C: **11 s 4 mm**
 Method: DIN 53211

Explosive properties: **not applicable**

Oxidising properties: **not applicable**

9.2. Other information

Solid content (%):	0 Wt %
solvent content:	
Organic solvents:	100 Wt %
Water:	0 Wt %

Relative vapour density at 20 °C (air=1) Heavier than air.

SECTION 10: Stability and reactivity

10.1. Reactivity

n.a.

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

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

10.5. Incompatible materials

n.a.

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] / GHS
No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

Hydrocarbons, C9, aromatics

oral, LD50, Rat: 2000 - 5000 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 2000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: > 6193 mg/l (4 h)

Method: OECD 403

4-hydroxy-4-methylpentan-2-one

oral, LD50, Rat: 3002 mg/kg

dermal, LD50, Rabbit: 13630 mg/kg

inhalative (vapours), LC50, Rat: > 7,6 mg/l (4 h)

skin corrosion/irritation; Serious eye damage/eye irritation

Toxicological data are not available.

Respiratory or skin sensitisation

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Toxicological data are not available.

Specific target organ toxicity

Hydrocarbons, C9, aromatics

Specific target organ toxicity (single exposure), Irritation:

Specific target organ toxicity (single exposure), drowsiness:

Aspiration hazard

Hydrocarbons, C9, aromatics

Aspiration hazard

Practical experience/human evidence

Other observations:

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. / GHS

Remark

There is no information available on the preparation itself .

SECTION 12: Ecological information

overall evaluation

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

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

12.1. Toxicity

Hydrocarbons, C9, aromatics

Fish toxicity, LC50, *Oncorhynchus mykiss* (Rainbow trout): 1 - 10 mg/l (96 h)

Method: OECD 203

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 3,2 mg/l 0 - 10 mg/l (48 h)

Method: OECD 202

Algae toxicity, ErC50, *Pseudokirchneriella subcapitata*: 2,6 mg/l 0 - 10 mg/l (72 h)

Method: OECD 201

4-hydroxy-4-methylpentan-2-one

Fish toxicity, LC50, *Lepomis macrochirus* (Bluegill): 420 mg/l (96 h)

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 9000 mg/l (24 h)

Algae toxicity, IC50, *Selenastrum capricornutum*: > 1000 mg/l (72 h)

Long-term Ecotoxicity

4-hydroxy-4-methylpentan-2-one

Daphnia toxicity, NOEC, *Daphnia magna* (Big water flea): > 100 mg/l (21 D)

Method: OECD 211

Algae toxicity, NOEC, *Pseudokirchneriella subcapitata*: 1000 mg/l (72 h)

Method: OECD 201

12.2. Persistence and degradability

Toxicological data are not available.

12.3. Bioaccumulative potential

4-hydroxy-4-methylpentan-2-one

Partition coefficient: n-octanol/water: -0,14

Method: OECD 107

No indication of bioaccumulation potential.

Bioconcentration factor (BCF)

Toxicological data are not available.

12.4. Mobility in soil

Toxicological data are not 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

n.a.

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. Incinerate or bury in a RCRA licensed facility. Do not discharge into waterways or sewer systems without proper authority. Incinerate or bury in a RCRA licensed facility. Do not discharge into waterways or sewer systems without proper authority.

Waste codes/waste designations according to EWC/AVV

140603 other solvents and solvent mixtures

packaging

Recommendation

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

Empty containers with less than 1 inch of residue may be landfilled at a licensed facility. Other containers that contain RCRA listed materials must be disposed of in a RCRA licensed facility.

Additional information

n.a.

SECTION 14: Transport information

Transport according to ADR/RID, IMDG and ICAO/IATA/ DOT

- | | |
|---|---------------------------------|
| 14.1. UN number | UN 1263 |
| 14.2. UN proper shipping name | |
| Land transport (ADR/RID): | Paint related material |
| Sea transport (IMDG): | PAINT RELATED MATERIAL |
| Air transport (ICAO-TI / IATA-DGR): | Paint related material |
| 14.3. Transport hazard class(es) | 3 |
| 14.4. Packing group | III |
| 14.5. Environmental hazards | |
| Land transport (ADR/RID) | UMWELTGEFÄHRDEND |
| Marine pollutant | p / Hydrocarbons, C9, aromatics |
| 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 |
| in packages <= 5 litres | not restricted 2.10.2.7 |
| Air transport (ICAO-TI / IATA-DGR) | |
| 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): 905,500 (= 7,637 lb/gal)
- National regulations**
- Restrictions of occupation**

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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).

US Regulatory information:

SARA / OSHA Status: * OSHA listed ingredients. No SARA TITLEIII Section 313 listed ingredients.

TSCA Status: Listet in TOXIC SUBSTANCES CONTROL ACT (TSCA)

Ingredients listed at carcinogen or potential carcinogen:

See Section 3, 8 ,11

HMIS Code: See Section 1

Explanations:

H (Health):

H=2 (moderate health hazard): for lead containing- and UV-products
 H=1 (slight health hazard): for other product

F (Flammability/Flash point see Section5):

F=4 (extremely flammable): Flash point below 22.8°C (73°F)
 F=3 (highly flammable): Flash point at or above 22.8°C (73°F) but below 37.8°C (100°F)
 F=2 (moderately combustible): Flash point at or above 37.8°C (100°F) but below 93.4°C (200°F)
 F=1 (slightly combustible): Flash point at or above 93.4°F (200°F)
 F=0 (noncombustible): greather than 815°C (1,500°F)

R (Reactivity):

R=2 (moderately reactive): for UV-products
 R=0 (no significant reactive): for other products

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

Full text of classification in section 3:

STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
STOT SE 3 / H336	Specific target organ toxicity (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.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	
AGW (WEL)	Occupational Exposure Limit Value	
BGW	Biological Limit Value	
CAS	Chemicals Abstract 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	Europäische Gemeinschaft/en (European Community/ies)	
EmS-No.	Emergency Response Procedures for Ships Carrying Dangerous Goods	
EN	Europäische Norm (European Standard)	
EU	European Union	
EEC	European Economic Community	
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations	

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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
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	Règlement concernant le transport international ferroviaire de marchandises Dangereuses (Regulations concerning the International Carriage of Dangerous Goods by Rail)
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Data sources:

Data arise from reference works and literature.

Further information

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

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.

Further explanations

n.a., n.b., NB: not applicable