

# Safety Data Sheet

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

Article No.: 342  
Print date: 26.12.2022  
Version: 9.0

DUROMAR Bootsunterwasserfarbe  
Revision date: 10.12.2022  
Issue date: 10.12.2022

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

### 1.1. Product identifier

Article No. (manufacturer/supplier) 342  
Trade name/designation DUROMAR Bootsunterwasserfarbe  
kupfer

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

#### Relevant identified uses:

Coating material to protecting surfaces

### 1.3. Details of the supplier of the safety data sheet

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

### 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. 3 / H226

Flammable liquids

Flammable liquid and vapour.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

STOT SE 3 / H336

STOT-single exposure

May cause drowsiness or dizziness.

Aquatic Acute 1 / H400

Hazardous to the aquatic environment

Very toxic to aquatic organisms.

Aquatic Chronic 2 / H411

Hazardous to the aquatic environment

Toxic 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

H226

Flammable liquid and vapour.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

H410

Very toxic 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 carefully and follow all instructions.

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.

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.

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.

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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.  
 P337 + P313 If eye irritation persists: Get medical advice/attention.  
 P370 + P378 In case of fire: Use extinguishing powder or sand to extinguish.  
 P391 Collect spillage.  
 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**

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:

**Hazardous ingredients**

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

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
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	25 - 40
231-159-6 7440-50-8	01-2119480154-42 COPPER POWDER, METALLIC Acute Tox. 4 H302 / Acute Tox. 3 H331 / Eye Irrit. 2 H319 / Aquatic Acute 1 H400 (M = 10) / Aquatic Chronic 1 H410	10 - 15
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
918-481-9	01-2119457273-39 Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics Asp. Tox. 1 H304	1 - 5
432-430-3	01-0000017860-69 Reaction mass of: N,N'-Ethane-1,2-diylbis(hexanamide); N, N' - e t h a n e - 1 , 2 - d i y l b i s ( 1 2 - h y d r o x y o c t a d e c a n a m i d e ) 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide Aquatic Chronic 4 H413	1 - 5
295-361-6 92044-82-1	01-2120781946-36 Fatty acids, C9-13-neo-, barium salts Acute Tox. 4 H302 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Dam. 1 H318	1 - 5
238-878-4 14808-60-7	Quarz (SiO2) Substance with a common (EC) occupational exposure limit value.	1 - 5
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	1 - 5
236-671-3 13463-41-7	01-2119511196-46 Zinkpyrithion Acute Tox. 3 H301 / Acute Tox. 2 H310 / Acute Tox. 2 H330 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Aquatic Acute 1 H400 / STOT SE 3 H335	0.1 - 0.5

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203-625-9	01-2119471310-51	
108-88-3	Toluene	0.1 - 0.5
601-021-00-3	Flam. Liq. 2 H225 / Repr. 2 H361 / Asp. Tox. 1 H304 / STOT RE 2 H373 / Skin Irrit. 2 H315 / STOT SE 3 H336	

## 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.

#### 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

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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 (TRGS 727)".

### 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

The professional use of such preparation by young people is restricted or prohibited. (see Fig. provisions in Chap. 15)

## 8.1. Control parameters

### Occupational exposure limit values

COPPER POWDER, METALLIC

EC No. 231-159-6 / CAS No. 7440-50-8

WEL, TWA: 0.2 mg/m<sup>3</sup>

Remark: (Smoke)

WEL, TWA: 1 mg/m<sup>3</sup>

WEL, STEL: 2 mg/m<sup>3</sup>

Remark: (Dusts and mist calculated as Cu)

WEL, TWA: 1 mg/m<sup>3</sup>

WEL, STEL: 2 mg/m<sup>3</sup>

Remark: (Dusts and mist calculated as Cu)

WEL, TWA: 1 mg/m<sup>3</sup>

WEL, STEL: 2 mg/m<sup>3</sup>

Remark: (Dusts and mist calculated as Cu)

Quarz (SiO<sub>2</sub>)

EC No. 238-878-4 / CAS No. 14808-60-7

WEL, TWA: 0.1 mg/m<sup>3</sup>

Remark: (Silica, crystalline; respirable fraction)

Toluene

Index No. 601-021-00-3 / EC No. 203-625-9 / CAS No. 108-88-3

WEL, TWA: 191 mg/m<sup>3</sup>; 50 ppm

WEL, STEL: 384 mg/m<sup>3</sup>; 100 ppm

Remark: (may be absorbed through the skin)

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TWA : Long-term occupational exposure limit value  
STEL : short-term occupational exposure limit value  
Ceiling : peak limitation

## DNEL:

Toluene

Index No. 601-021-00-3 / EC No. 203-625-9 / CAS No. 108-88-3

DNEL long-term dermal (systemic), Workers: 384 mg/kg bw/day  
DNEL acute inhalative (local), Workers: 384 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Workers: 384 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Workers: 192 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 192 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 8,13 mg/kg bw/day  
DNEL long-term dermal (systemic), Consumer: 226 mg/kg bw/day  
DNEL acute inhalative (local), Consumer: 226 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Consumer: 226 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Consumer: 56,5 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 56,5 mg/m<sup>3</sup>

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/m<sup>3</sup>  
DNEL acute inhalative (systemic), Workers: 570 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Workers: 330 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 330 mg/m<sup>3</sup>  
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/m<sup>3</sup>  
DNEL long-term inhalative (local), Consumer: 71 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 71 mg/m<sup>3</sup>

## PNEC:

Toluene

Index No. 601-021-00-3 / EC No. 203-625-9 / CAS No. 108-88-3

PNEC aquatic, freshwater: 0,68 mg/L  
PNEC aquatic, marine water: 0,68 mg/L  
PNEC sediment, freshwater: 16,39 mg/kg  
PNEC sediment, marine water: 16,39 mg/kg  
PNEC, soil: 2,89 mg/kg  
PNEC sewage treatment plant (STP): 13,61 mg/L  
PNEC Waters, sporadic release: 0,68 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

For spray application, a respirator should be worn with a protection factor of at least 50. 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.

#### Hand protection

Wear suitable gloves. 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.

#### Eye/face protection

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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: 162 °C

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

Flash point: 25 °C

Method: DIN 53213

Evaporation rate: not applicable

#### flammability

Burning time: not applicable

#### Upper/lower flammability or explosive limits:

Lower explosion limit: 0.71 Vol-%

Upper explosion limit: 7 Vol-%

Source: Hydrocarbons, C9, aromatics, <0.1% benzene

Vapour pressure at 20 °C: 3.7 mbar

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

Vapour density: not applicable

#### Relative density:

Density at 20 °C: 1.14 g/cm<sup>3</sup>

#### Solubility(ies):

Water solubility at 20 °C: insoluble

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

Auto-ignition temperature: 240 °C

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

Decomposition temperature: not applicable

Viscosity at °C: 2700 - 2900 mPas

Explosive properties: not applicable

Oxidising properties: not applicable

### 9.2. Other information

Solid content: 66 weight-%

#### solvent content:

Organic solvents: 34 weight-%

Water: 0 weight-%

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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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

Toluene

oral, LD50, Rat: 636 mg/kg

Neurotoxicology. Vol. 2, Pg. 567, 1981

dermal, LD50, Rat: 12200 mg/kg

American Industrial Hygiene Association Journal. Vol. 30, Pg. 470, 1969

inhalative (vapours), LC50, Rat: 28,1 mg/L (4 h)

Method: OECD 403

oral, LD50, Rat, male: 5580 mg/kg

Method: EU Test B.1

dermal, LD50, Rabbit, male: > 5000

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/m<sup>3</sup> 10 (4 h)

Fatty acids, C9-13-neo-, barium salts

oral, LD50, Rat

inhalative (vapours), LC50, Rat (4 h)

#### Skin corrosion/irritation; Serious eye damage/eye irritation

Causes serious 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.

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eyes

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.

eyes

Method: OECD 405

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

Fatty acids, C9-13-neo-, barium salts

Skin (4 h)

eyes

**Respiratory or skin sensitisation**

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)**

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



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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.

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

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, 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.

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## Remark

There is no information available on the preparation itself .

## 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

Very toxic to aquatic organisms.

#### Toluene

Fish toxicity, LC50, Oncorhynchus kisutch (silver salmon): 5,5 mg/L (96 h)  
Daphnia toxicity, EC50, Daphnia pulex (water flea): 3,78 mg/L (48 h)  
Algae toxicity, EC50, Chlamydomonas angulosa: 134 mg/L (3 h)  
Bacteria toxicity, EC50, Nitrosomonas sp: 84 mg/L (24 h)

#### 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

Toxic to aquatic life with long lasting effects.

#### Toluene

Fish toxicity, NOEC, Oncorhynchus kisutch (silver salmon): 1,39 mg/L (40 d)  
Daphnia toxicity, NOEC, Daphnia pulex (water flea): 0,74 mg/L (7 d)  
Fish toxicity, LOEC:, Oncorhynchus kisutch (silver salmon): 2,77 mg/L (40 d)

#### 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

#### Toluene

Persistence and degradability: Evaluation Rapid photochemical oxidation in air  
Biodegradation: 86 percent (20 d)  
Readily biodegradable (according to OECD criteria)

#### 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

#### Toluene

Distribution coefficient n-octanol/water (log KOW): 2,65

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Method: BCF: 90

The product has a low bioaccumulation potential

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

Partition coefficient: n-octanol/water:

No further relevant information available.

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)

Toluene

Bioconcentration factor (BCF): 90 ; Evaluation The product has a low bioaccumulation potential

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

Bioconcentration factor (BCF): 500

high

## 12.4. Mobility in soil

Toluene

Water: Evaluation Floats on the water

soil: Evaluation Mobile in the ground

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. 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.

#### 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

#### Recommendation

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

## SECTION 14: Transport information

### 14.1. UN number

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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)**

3

**14.4. Packing group**

III

**14.5. Environmental hazards**

Land transport (ADR/RID) UMWELTGEFÄHRDEND  
 Marine pollutant p

**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  
 in packages <= 5 litres KEINE GÜTER DER KLASSE 3

**Sea transport (IMDG)**

EmS-No. F-E, S-E  
 in packages <= 5 litres Transport in accordance with the provisions of paragraph 2.3.2.5 of the IMDG Code.

**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 [Industrial Emissions Directive]**

VOC-value (in g/L): 388

**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 juveniles according to the 'juvenile work protection guideline' (94/33/EC).  
 Youth Employment Protection Regulation (ArGV 5, SR 822115)

**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
231-159-6 7440-50-8	COPPER POWDER, METALLIC	01-2119480154-42
918-668-5	Hydrocarbons, C9, aromatics, <0.1% benzene	01-2119455851-35
918-481-9	Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclic, <2% aromatics	01-2119457273-39
432-430-3	Reaction mass of: N,N'-Ethane-1,2-diylbis(hexanamide); N, N' - e t h a n e - 1 , 2 - d i y l b i s ( 1 2 - h y d r o x y o c t a d e c 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide	01-0000017860-69
295-361-6 92044-82-1	Fatty acids, C9-13-neo-, barium salts	01-2120781946-36

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919-857-5	Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics	01-2119463258-33
236-671-3 13463-41-7	Zinkpyrithion	01-2119511196-46
203-625-9 108-88-3	Toluene	01-2119471310-51

**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 / H302	Acute toxicity (oral)	Harmful if swallowed.
Acute Tox. 3 / H331	Acute toxicity (inhalative)	Toxic if inhaled.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 4 / H413	Hazardous to the aquatic environment	May cause long lasting harmful effects to aquatic life.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
Acute Tox. 2 / H310	Acute toxicity (dermal)	Fatal in contact with skin.
Acute Tox. 2 / H330	Acute toxicity (inhalative)	Fatal if inhaled.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging the unborn child.
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).

**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.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.
Aquatic Acute 1	Hazardous to the aquatic environment	Calculation method.
Aquatic Chronic 2	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

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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	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 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.