

# Safety Data Sheet

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

Article No.: 343  
Print date: 26.12.2022  
Version: 8.0

DUROPOOL Schwimmbassinfarbe  
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 identifiers

Article No. (manufacturer/supplier) 343  
Trade name/designation DUROPOOL Schwimmbassinfarbe

### 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)

### 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.                       |
| STOT SE 3 / H336         | STOT-single exposure                 | May cause drowsiness or dizziness.                 |
| Aquatic Chronic 3 / H412 | Hazardous to the aquatic environment | Harmful to aquatic life with long lasting effects. |

### 2.2. Label elements

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

#### Hazard pictograms



Warning

#### Hazard statements

H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.  
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 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.  
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.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
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.

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P501 Dispose of contents/container to industrial incineration plant.

**Hazard components for labelling**

Hydrocarbons, C9, aromatics, <0.1% benzene

**Supplemental hazard information**

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

EUH208 Contains Fatty acids, C18-unsaturated., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine. May produce an allergic reaction.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Description** chlorinated polymer coating,, containing the following hazardous substances:

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

| EC No.<br>CAS No.<br>Index No.          | REACH No.<br>Designation<br>classification // Remark  | weight-%  |
|---|---|-----------|
| 918-668-5                               | 01-2119455851-35<br>Hydrocarbons, C9, aromatics, <0.1% benzene<br>STOT SE 3 H336 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411  | 15 - 25   |
| 204-658-1<br>123-86-4                   | 01-2119485493-29<br>n-butyl acetate   | 15 - 25   |
| 607-025-00-1                            | Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066   |           |
| 203-603-9<br>108-65-6<br>607-195-00-7   | 01-2119475791-29<br>2-methoxy-1-methylethyl acetate<br>Flam. Liq. 3 H226<br>Substance with a common (EC) occupational exposure limit value.   | 5 - 10    |
| 265-199-0<br>64742-95-6<br>649-356-00-4 | 01-2119455851-35<br>Hydrocarbons, C9, aromatics<br>Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H335 / STOT SE 3<br>H336 / Aquatic Chronic 2 H411                                       | 5 - 10    |
| 215-535-7<br>1330-20-7<br>601-022-00-9  | 01-2119488216-32<br>Xylene<br>Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2<br>H319 / STOT SE 3 H335 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Flam.<br>Liq. 3 H226 | 1 - 5     |
| 203-620-1<br>108-83-8<br>606-005-00-X   | 2,6-dimethylheptan-4-one<br>Flam. Liq. 3 H226 / STOT SE 3 H335<br>Specific concentration limit (SCL): STOT SE 3 H335 >= 10  | 1 - 5     |
| 605-296-0<br>162627-17-0                | 01-2119970640-38<br>Fatty acids, C18-unsaturated., dimers, reaction products with<br>N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine<br>Skin Sens. 1 H317                            | 0.1 - 0.5 |
| 230-991-7<br>7397-62-8                  | 01-2119514685-36<br>butyl glycolate<br>Eye Dam. 1 H318 / Repr. 2 H361   | 0.1 - 0.5 |

**Additional information**

Full text of classification: see section 16

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

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

**In case of inhalation**

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

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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

#### 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

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## 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

### 8.1. Control parameters

#### Occupational exposure limit values:

2-methoxy-1-methylethyl acetate

Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

WEL, TWA: 274 mg/m<sup>3</sup>; 50 ppm

WEL, STEL: 548 mg/m<sup>3</sup>; 100 ppm

Remark: (may be absorbed through the skin)

Hydrocarbons, C9, aromatics

Index No. 649-356-00-4 / EC No. 265-199-0 / CAS No. 64742-95-6

WEL, TWA: 500 mg/m<sup>3</sup>

Remark: (Aromatics)

Xylene

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

WEL, TWA: 220 mg/m<sup>3</sup>; 50 ppm

WEL, STEL: 441 mg/m<sup>3</sup>; 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

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/m<sup>3</sup>; 25 ppm

#### 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/m<sup>3</sup>

DNEL acute inhalative (systemic), Workers: 442 mg/m<sup>3</sup>

DNEL long-term inhalative (local), Workers:

DNEL long-term inhalative (systemic), Workers: 221 mg/m<sup>3</sup>

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/m<sup>3</sup>

DNEL acute inhalative (systemic), Consumer: 260 mg/m<sup>3</sup>

DNEL long-term inhalative (local), Consumer: 65,3 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Consumer: 65,3 mg/m<sup>3</sup>

2,6-dimethylheptan-4-one

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DNEL long-term oral (repeated), Workers:  
DNEL long-term dermal (systemic), Workers: 80 mg/kg  
DNEL acute inhalative (local), Workers: 290 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Workers: 290 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Workers: 290 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 479 mg/m<sup>3</sup>  
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/m<sup>3</sup>  
DNEL acute inhalative (systemic), Consumer: 145 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Consumer: 145 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 171 mg/m<sup>3</sup>

n-butyl acetate

Index No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

DNEL short-term oral (acute), Workers:  
DNEL long-term inhalative (systemic), Workers: 480 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 102,34 mg/m<sup>3</sup>

2-methoxy-1-methylethyl acetate

Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

DNEL long-term oral (repeated), Workers: 1,67 mg/kg  
DNEL long-term dermal (systemic), Workers: 54,8 mg/kg  
DNEL long-term inhalative (systemic), Workers: 33 mg/m<sup>3</sup>

butyl glycolate

EC No. 230-991-7 / CAS No. 7397-62-8

DNEL long-term dermal (systemic), Workers: 34,7 mg/kg bw/day  
DNEL long-term inhalative (systemic), Workers: 21,2 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 2 mg/kg bw/day  
DNEL long-term dermal (systemic), Consumer: 20,8 mg/kg bw/day  
DNEL long-term inhalative (systemic), Consumer: 43,5 mg/m<sup>3</sup>

Hydrocarbons, C9, aromatics

Index No. 649-356-00-4 / EC No. 265-199-0 / CAS No. 64742-95-6

DNEL long-term dermal (systemic), Workers: 25 mg/kg bw/day  
DNEL long-term inhalative (systemic), Workers: 150 mg/m<sup>3</sup>  
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/m<sup>3</sup>

**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

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

n-butyl acetate

Index No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4

PNEC aquatic, freshwater: 0,18 mg/L  
PNEC aquatic, marine water: 0,018 mg/L  
PNEC aquatic, intermittent release: 0,36 mg/L  
PNEC sediment, freshwater: 0,981 mg/kg Sediment dry weight  
PNEC sediment, marine water: 0,0981 mg/kg Sediment dry weight  
PNEC, soil: 0,0903 mg/kg Sediment dry weight

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PNEC sewage treatment plant (STP): 35,6 mg/L  
2-methoxy-1-methylethyl acetate  
Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6  
PNEC aquatic, freshwater: 0,635 mg/cm<sup>3</sup>  
PNEC aquatic, marine water: 0,0635 mg/cm<sup>3</sup>  
PNEC aquatic, intermittent release: 6,35 mg/cm<sup>3</sup>  
PNEC sediment, freshwater: 3,29 mg/cm<sup>3</sup>  
PNEC sediment, marine water: 0,329 mg/cm<sup>3</sup>  
PNEC, soil: 0,29 mg/m<sup>3</sup>  
PNEC sewage treatment plant (STP): 100 mg/cm<sup>3</sup>

butyl glycolate  
EC No. 230-991-7 / CAS No. 7397-62-8  
PNEC aquatic, freshwater: 0,05 mg/L  
PNEC sediment, freshwater: 0,203 mg/kg  
PNEC, soil: 0,0112 mg/kg dw  
PNEC sewage treatment plant (STP): 232 mg/L

## 8.2. Exposure controls

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

### Personal protection equipment

#### **Respiratory protection**

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

#### **Hand protection**

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

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

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

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

#### **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

|   |   |
|---|---|
| <b>Physical state:</b>                          | <b>Liquid</b>   |
| <b>Colour:</b>                                  | <b>refer to label</b>                                     |
| <b>Odour:</b>                                   | <b>characteristic</b>                                     |
| <b>Odour threshold:</b>                         | <b>not applicable</b>                                     |
| <b>Melting point/freezing point:</b>            | <b>not applicable</b>                                     |
| <b>Initial boiling point and boiling range:</b> | <b>126 °C</b><br>Source: n-butyl acetate                  |
| <b>Flammability:</b>                            | <b>Flammable liquid and vapour.</b>                       |
| <b>Lower and upper explosion limit:</b>         |   |
| <b>Lower explosion limit:</b>                   | <b>1.11 Vol-%</b>   |
| <b>Upper explosion limit:</b>                   | <b>7 Vol-%</b><br>Source: 2-methoxy-1-methylethyl acetate |
| <b>Flash point:</b>                             | <b>25 °C</b><br>Method: DIN 53213                         |

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|  |  |
|--|--|
| <b>Auto-ignition temperature:</b>              | <b>333 °C</b><br>Source: 2-methoxy-1-methylethyl acetate |
| <b>Decomposition temperature:</b>              | <b>not applicable</b>                                    |
| <b>pH at 20 °C:</b>                            | <b>not applicable</b>                                    |
| <b>Cinematic viscosity (40°C):</b>             | <b>&lt; 400 mm<sup>2</sup>/s</b>                         |
| <b>Viscosity at 20 °C:</b>                     | <b>800 - 900 mPas</b>                                    |
| <b>Solubility(ies):</b>                        |  |
| <b>Water solubility at 20 °C:</b>              | <b>insoluble</b>   |
| <b>Partition coefficient: n-octanol/water:</b> | <b>see section 12</b>                                    |
| <b>Vapour pressure at 20 °C:</b>               | <b>13 mbar</b><br>Source: n-butyl acetate                |
| <b>Density and/or relative density:</b>        |  |
| <b>Density at 20 °C:</b>                       | <b>1.13 g/cm<sup>3</sup></b>                             |
| <b>Relative vapour density:</b>                | <b>not applicable</b>                                    |
| <b>particle characteristics:</b>               | <b>not applicable</b>                                    |
| 9.2. <b>Other information</b>                  |  |
| <b>Solid content:</b>                          | <b>47 weight-%</b>                                       |
| <b>solvent content:</b>                        |  |
| <b>Organic solvents:</b>                       | <b>53 weight-%</b>                                       |
| <b>Water:</b>                                  | <b>0 weight-%</b>  |
| <b>Solvent separation test:</b>                | <b>&lt; 3 weight-% (ADR/RID)</b>                         |

## 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

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

#### Acute toxicity

Xylene

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

Method: EU Test B.1

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

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

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n-butyl acetate

oral, LD50, Rat: 10760 mg/kg  
Method: OECD 423  
dermal, LD50, Rabbit: 14112 mg/kg  
Method: OECD 402  
inhalative (dust and mist), LC50, Rat: 23,4 mg/L (4 h)  
Method: OECD 403

2-methoxy-1-methylethyl acetate

dermal, LD50, Rabbit: > 2000 mg/kg

butyl glycolate

oral, LD50, Rat: 4595 mg/kg  
inhalative (vapours), LC50, Rat: > 6,2 mg/L (4 h)

Hydrocarbons, C9, aromatics

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

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)

**Skin corrosion/irritation; Serious eye damage/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.

n-butyl acetate

Skin, Rabbit (4 h)  
Method: OECD 404  
No skin irritation  
eyes  
Method: OECD 405  
No eye irritation

2-methoxy-1-methylethyl acetate

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

butyl glycolate

Skin (4 h)  
No irritant effect  
eyes  
Causes serious eye damage.

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.

Hydrocarbons, C9, aromatics, <0.1% benzene

Skin (4 h)  
Method: OECD 404



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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

n-butyl acetate

Skin, Guinea pig ; Evaluation not sensitising.

Method: OECD 406

Mouse mouse ear swelling test (MEST)

2-methoxy-1-methylethyl acetate

Skin ; Evaluation not sensitising.

Method: OECD 406

Respiratory system:

No data available

butyl glycolate

Skin:

No sensitizing effect known.

Respiratory system:

No sensitizing effect known.

Hydrocarbons, C9, aromatics

Skin:

Method: OECD 406

Not to be classified as skin sensitising.

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)

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.

n-butyl acetate

Germ cell mutagenicity; Evaluation Ames test negative.

2-methoxy-1-methylethyl acetate

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Lactation

No data available

butyl glycolate

Germ cell mutagenicity

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

Reproductive toxicity

Suspected of damaging fertility or the unborn child.; Exposure route:; Ingestion

Hydrocarbons, C9, aromatics

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Germ cell mutagenicity

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

Carcinogenicity

No data available

Reproductive toxicity

No data available

Hydrocarbons, C9, aromatics, <0.1% benzene

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

Does not qualify as a carcinogen.

In vitro mutagenicity; Evaluation positive

## STOT-single exposure; STOT-repeated exposure

May cause drowsiness or dizziness.

Xylene

Specific target organ toxicity (repeated exposure)

Liver and kidney damage; central nervous system

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

Liver and kidney damage; central nervous system; hearing organs

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.

n-butyl acetate

Specific target organ toxicity (single exposure)

central nervous system; May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

human; Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).; Steam in high concentration leads to unconsciousness.

2-methoxy-1-methylethyl acetate

Specific target organ toxicity (single exposure)

No data available

Specific target organ toxicity (repeated exposure)

No data available

butyl glycolate

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

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

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

2,6-dimethylheptan-4-one

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

n-butyl acetate

Aspiration hazard; Evaluation No classification for aspiration toxicity

2-methoxy-1-methylethyl acetate

Aspiration hazard

Not to be classified as aspirational.

butyl glycolate

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

Hydrocarbons, C9, aromatics

Aspiration hazard

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.

### 11.2. Information on other hazards

#### Endocrine disrupting properties

No information available.

## 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%“, 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

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)

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Method: OECD 201

n-butyl acetate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 18 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 44 mg/L (48 h)

Algae toxicity, ErC50

Algae toxicity, EC50, Desmodesmus subspicatus: 647,7 mg/L (72 h)

(Growth inhibition)

Algae toxicity, NOEC, Desmodesmus subspicatus: 200 mg/L

Bacteria toxicity, IC50, Tetrahymena: 356 mg/L (40 h)

butyl glycolate

Fish toxicity, LC0, Leuciscus idus (golden orfe): 50 mg/L (48 h)

Daphnia toxicity, EC50, Daphnia magna: 280 mg/L (24 h)

Bacteria toxicity, EC50, Pseudomonas putida: 2320 mg/L (18 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

Hydrocarbons, C9, aromatics, <0.1% benzene

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

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

## Long-term Ecotoxicity

Harmful to aquatic life with long lasting effects.

Xylene

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

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

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)

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

n-butyl acetate

Persistence and degradability: Evaluation No data available

Biodegradation: 83 percent (28 d); Evaluation Readily biodegradable (according to OECD criteria).

Method: OECD 301D

aerobic.

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2-methoxy-1-methylethyl acetate  
Persistence and degradability:  
No data available  
Biodegradation: Evaluation Readily biodegradable (according to OECD criteria).  
butyl glycolate  
Biodegradation: Evaluation Biodegradable.  
Hydrocarbons, C9, aromatics  
Biodegradation: Evaluation Readily biodegradable (according to OECD criteria).  
Hydrocarbons, C9, aromatics, <0.1% benzene  
Biodegradation: Evaluation Readily biodegradable (according to OECD criteria).

## 12.3. Bioaccumulative potential

Xylene  
Distribution coefficient n-octanol/water (log KOW): 3,49  
2,6-dimethylheptan-4-one  
Distribution coefficient n-octanol/water (log KOW): Evaluation Little bioaccumulation  
n-butyl acetate  
Distribution coefficient n-octanol/water (log KOW):  
No data available  
2-methoxy-1-methylethyl acetate  
Distribution coefficient n-octanol/water (log KOW): 1,2  
Hydrocarbons, C9, aromatics  
Distribution coefficient n-octanol/water (log KOW): 3,7 - 4,5  
Hydrocarbons, C9, aromatics, <0.1% benzene  
Distribution coefficient n-octanol/water (log KOW): 3,7 - 4,5

## 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  
n-butyl acetate  
:  
No data available  
butyl glycolate  
soil:  
No further relevant information available.  
Hydrocarbons, C9, aromatics  
soil:  
No data available  
Hydrocarbons, C9, aromatics, <0.1% benzene  
soil:  
No data available

## 12.5. Results of PBT and vPvB assessment

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

## 12.6. Endocrine disrupting properties

No information available.

## 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste

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disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation.

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

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

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

#### Appropriate disposal / Package

##### Recommendation

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

## SECTION 14: Transport information

### 14.1. UN number or ID number

UN 1263

### 14.2. UN proper shipping name

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

### 14.3. Transport hazard class(es)

Land transport (ADR/RID): KEINE GÜTER DER KLASSE 3  
bei Gebinden > 450 l Klasse 3  
Sea transport (IMDG) 3  
for packages < = 450 litres: Transport in accordance with the provisions of paragraph 2.3.2.5 of the  
IMDG Code.  
Air transport (ICAO-TI / IATA-DGR) 3

### 14.4. Packing group

III

### 14.5. Environmental hazards

Land transport (ADR/RID) not applicable  
Marine pollutant not applicable

### 14.6. Special precautions for user

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

Advices on safe handling: see parts 6 - 8

#### Further information

##### Land transport (ADR/RID)

Tunnel restriction code D/E

##### Sea transport (IMDG)

EmS-No. F-E, S-E

### 14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

## SECTION 15: Regulatory information

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

#### EU legislation

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

VOC-value (in g/L): 598

#### National regulations

##### Restrictions of occupation

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

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

### 15.2. Chemical Safety Assessment

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

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| EC No.<br>CAS No.        | Designation  | REACH No.        |
|--------------------------|--|------------------|
| 918-668-5                | Hydrocarbons, C9, aromatics, <0.1% benzene   | 01-2119455851-35 |
| 204-658-1<br>123-86-4    | n-butyl acetate  | 01-2119485493-29 |
| 203-603-9<br>108-65-6    | 2-methoxy-1-methylethyl acetate  | 01-2119475791-29 |
| 265-199-0<br>64742-95-6  | Hydrocarbons, C9, aromatics  | 01-2119455851-35 |
| 215-535-7<br>1330-20-7   | Xylene   | 01-2119488216-32 |
| 605-296-0<br>162627-17-0 | Fatty acids, C18-unsaturated., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine | 01-2119970640-38 |
| 230-991-7<br>7397-62-8   | butyl glycolate  | 01-2119514685-36 |

**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.   |
| STOT SE 3 / H335         | STOT-single exposure                 | May cause respiratory irritation.  |
| Acute Tox. 4 / H312      | Acute toxicity (dermal)              | Harmful in contact with skin.  |
| Acute Tox. 4 / H332      | Acute toxicity (inhalative)          | Harmful if inhaled.  |
| Skin Irrit. 2 / H315     | Skin corrosion/irritation            | Causes skin irritation.  |
| Eye Irrit. 2 / H319      | Serious eye damage/eye irritation    | Causes serious eye irritation.   |
| STOT 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). |
| Skin Sens. 1 / H317      | Respiratory or skin sensitisation    | May cause an allergic skin reaction.   |
| Eye Dam. 1 / H318        | Serious eye damage/eye irritation    | Causes serious eye damage.   |
| Repr. 2 / H361           | Reproductive toxicity                | Suspected of damaging fertility or the unborn child (state specific effect if known) (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. |
| STOT SE 3         | STOT-single exposure                 | Calculation method.    |
| Aquatic Chronic 3 | Hazardous to the aquatic environment | Calculation method.    |

**Abbreviations and acronyms**

|          |   |
|----------|---|
| ADR      | European Agreement concerning the International Carriage of Dangerous Goods by Road                               |
| OEL      | Occupational Exposure Limit Value   |
| BLV      | Biological Limit Value  |
| CAS      | Chemical Abstracts Service  |
| 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 |

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|           |   |
|-----------|---|
| 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       | 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.