

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

**JANSEN** 

Article No.: 40-821 Thermolack  
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Article No. (manufacturer/supplier): 40-821  
Trade name/designation Thermolack  
schwarz  
seidenmatt  
UFI: TH0F-8J8E-NG0U-4KT0

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

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

**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

P.A. Jansen GmbH u. Co., KG  
Hochstadenstraße 22 Telephone: +49 2641 3897-0  
D-53474 Bad Neuenahr-Ahrweiler Telefax: +49 2641 3897-28  
Homepage: www.jansen.de

**Department responsible for information:**

laboratory  
E-mail (competent person) sicherheitsdatenblatt@jansen.de

**1.4. Emergency telephone number**

Emergency telephone number +49 2641 3897-51  
Only available during office hours.

**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.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
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.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H411 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.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P264 Wash hands thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves and eye/face protection.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P370 + P378.6 In case of fire: Use carbon dioxide, extinguishing powder or alcohol-resistant foam to extinguish.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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**Hazard components for labelling**

Hydrocarbons, C9, aromatics  
n-butyl acetate

**Supplemental hazard information**

No data available

**2.3. Other hazards**

The mixture contains  $\geq 0.1$  % substances meeting the PBT criteria according to Regulation (EC) No 1907/2006, Annex XIII. See SECTION 3 in this safety data sheet.

The mixture contains  $\geq 0.1$  % substances meeting the vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII. See SECTION 3 in this safety data sheet.

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

**3.2. Mixtures**

**Description**

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

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
204-658-1 123-86-4 607-025-00-1 918-668-5	01-2119485493-29 n-butyl acetate Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066 01-2119455851-35 Hydrocarbons, C9, aromatics Flam. Liq. 3 H226 / STOT SE 3 H335 / Aquatic Chronic 2 H411 / Asp. Tox. 1 H304 / STOT SE 3 H336 / EUH066	20 - 25 10 - 12,5
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32 Xylene Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Flam. Liq. 3 H226 Acute toxicity estimate (ATE): ATE (dermal): 4200 mg/kg bw	8 - 10
200-751-6 71-36-3 603-004-00-6	01-2119484630-38 Butan-1-ol Flam. Liq. 3 H226 / Acute Tox. 4 H302 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / STOT SE 3 H336	2,5 - 3
202-849-4 100-41-4 601-023-00-4	01-2119489370-35 Ethylbenzene Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Aquatic Chronic 3 H412 / Flam. Liq. 2 H225 Acute toxicity estimate (ATE): ATE (inhalation, vapour): 17,20 mg/L	2 - 2,5
203-603-9 108-65-6 607-195-00-7 209-136-7 556-67-2 014-018-00-1	01-2119475791-29 2-methoxy-1-methylethyl acetate STOT SE 3 H336 / Flam. Liq. 3 H226 01-2119529238-36 octamethylcyclotetrasiloxane Repr. 2 H361f / Aquatic Chronic 1 H410 (M = 10) / Flam. Liq. 3 H226 PBT- and/or vPvB-substance	1,5 - 2 0,2 - 0,25

**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. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

**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.

#### 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 5 °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

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

Butan-1-ol

Index No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3

WEL, STEL: 154 mg/m<sup>3</sup>; 50 ppm

Remark: (may be absorbed through the skin)

Ethylbenzene

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

WEL, TWA: 441 mg/m<sup>3</sup>; 100 ppm

WEL, STEL: 552 mg/m<sup>3</sup>; 125 ppm

Remark: (may be absorbed through the skin)

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)

##### Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

##### DNEL:

Ethylbenzene

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

DNEL long-term dermal (systemic), Workers: 180 mg/kg

DNEL long-term inhalative (local), Workers: 293 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 77 mg/m<sup>3</sup>

DNEL long-term inhalative (local), Workers: 293 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 1,6 mg/kg

DNEL acute inhalative (systemic), Consumer: 15 mg/m<sup>3</sup>

Butan-1-ol

Index No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3

DNEL long-term inhalative (local), Workers: 310 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 1562 mg/kg

DNEL long-term dermal (systemic), Consumer: 3125 mg/kg

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DNEL long-term inhalative (local), Consumer: 155 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 55,357 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 acute dermal, short-term (systemic), Workers: 11 mg/kg  
DNEL long-term dermal (systemic), Workers: 11 mg/kg  
DNEL acute inhalative (local), Workers: 600 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Workers: 600 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Workers: 300 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 300 mg/m<sup>3</sup>  
DNEL short-term oral (acute), Consumer: 2 mg/kg  
DNEL long-term oral (repeated), Consumer: 2 mg/kg  
DNEL acute dermal, short-term (systemic), Consumer: 6 mg/kg  
DNEL long-term dermal (systemic), Consumer: 6 mg/kg  
DNEL acute inhalative (local), Consumer: 300 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Consumer: 300 mg/m<sup>3</sup>  
DNEL long-term inhalative (local), Consumer: 35,7 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 35,7 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 acute dermal, short-term (systemic), Workers: 153,5 mg/kg  
DNEL long-term dermal (systemic), Workers: 796 mg/kg  
DNEL acute inhalative (local), Workers: 550 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 275 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 36 mg/kg  
DNEL long-term dermal (systemic), Consumer: 320 mg/kg  
DNEL acute inhalative (systemic), Consumer: 33 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 33 mg/m<sup>3</sup>

octamethylcyclotetrasiloxane

Index No. 014-018-00-1 / EC No. 209-136-7 / CAS No. 556-67-2

DNEL long-term inhalative (local), Workers: 73 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 73 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 3,7 mg/kg  
DNEL long-term inhalative (local), Consumer: 13 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 13 mg/m<sup>3</sup>

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  
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: 221 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 221 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 12,5 mg/kg  
DNEL long-term dermal (systemic), Consumer: 125 mg/kg  
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>

Hydrocarbons, C9, aromatics

EC No. 918-668-5

DNEL long-term dermal (systemic), Workers: 25 mg/kg  
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  
DNEL long-term inhalative (systemic), Consumer: 32 mg/m<sup>3</sup>

**PNEC:**

Ethylbenzene

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

PNEC aquatic, freshwater: 0,1 mg/L  
PNEC aquatic, marine water: 0,01 mg/L

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PNEC aquatic, intermittent release: 0,1 mg/L  
PNEC sediment, freshwater: 13,7 mg/kg  
PNEC sediment, marine water: 1,37 mg/kg  
PNEC, soil: 2,68 mg/kg  
PNEC sewage treatment plant (STP): 9,6 mg/L  
PNEC Secondary Poisoning: 20 mg/kg

**Butan-1-ol**

Index No. 603-004-00-6 / EC No. 200-751-6 / CAS No. 71-36-3

PNEC aquatic, freshwater: 0,082 mg/L  
PNEC aquatic, marine water: 0,008 mg/L  
PNEC aquatic, intermittent release: 2,25 mg/L  
PNEC sediment, freshwater: 0,324 mg/kg  
PNEC sediment, marine water: 0,032 mg/kg  
PNEC, soil: 0,017 mg/kg  
PNEC sewage treatment plant (STP): 2476 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  
PNEC sediment, marine water: 0,0981 mg/kg  
PNEC, soil: 0,093 mg/kg  
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/L  
PNEC aquatic, marine water: 0,0635 mg/L  
PNEC aquatic, intermittent release: 6,35 mg/L  
PNEC sediment, freshwater: 3,29 mg/kg  
PNEC sediment, marine water: 0,329 mg/kg  
PNEC, soil: 0,29 mg/kg  
PNEC sewage treatment plant (STP): 100 mg/L

**octamethylcyclotetrasiloxane**

Index No. 014-018-00-1 / EC No. 209-136-7 / CAS No. 556-67-2

PNEC aquatic, freshwater:  $4,4 \times 10^{-4}$  mg/L  
PNEC aquatic, marine water:  $4,4 \times 10^{-5}$  mg/L  
PNEC sediment, freshwater: 1,5 mg/kg  
PNEC sediment, marine water: 0,15 mg/kg  
PNEC, soil: 0,13 mg/kg  
PNEC sewage treatment plant (STP): > 10 mg/L  
PNEC Secondary Poisoning: 41 mg/kg

**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 aquatic, intermittent release: 0,327 mg/L  
PNEC sediment, freshwater: 12,46 mg/kg  
PNEC sediment, marine water: 12,46 mg/kg  
PNEC, soil: 2,31 mg/kg  
PNEC sewage treatment plant (STP): 6,58 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. Observe the wear-time limits as specified by the manufacturer. Recommended respiratory protection articles: Inadequately ventilated

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workplaces and spraying procedures are necessary. Fresh air mask or short-time work combination filter A2-P2 are recommended.

#### **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>black</b>
<b>Odour:</b>	<b>characteristic</b>
<b>Odour threshold:</b>	<b>No data available</b>
<b>Melting point/freezing point:</b>	<b>-90 °C</b> Source: n-butyl acetate
<b>Initial boiling point and boiling range:</b>	<b>119 °C</b> Source: Butan-1-ol
<b>Flammability:</b>	<b>Flammable liquid and vapour.</b>
<b>Lower and upper explosion limit:</b>	
<b>Lower explosion limit:</b>	<b>0,7 Vol-%</b> Method: literature value Source: Hydrocarbons, C9, aromatics
<b>Upper explosion limit:</b>	<b>7,5 Vol-%</b> Method: literature value Source: n-butyl acetate
<b>Flash point:</b>	<b>27 °C</b> Method: EN ISO 1523
<b>Auto-ignition temperature:</b>	<b>400 °C</b> Source: Hydrocarbons, C9, aromatics
<b>Decomposition temperature:</b>	<b>No data available</b>
<b>pH at 20 °C:</b>	<b>No data available</b>
<b>Cinematic viscosity (40°C):</b>	<b>&gt; 20,5 mm<sup>2</sup>/s</b>
<b>Viscosity at 20 °C:</b>	<b>&gt; 25 s 4 mm</b> Method: DIN 53211
<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>14 mbar</b> Source: Xylene
<b>Density and/or relative density:</b>	

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<b>Density at 20 °C:</b>	<b>1,00 g/cm<sup>3</sup></b> Method: DIN 53217
<b>Relative vapour density:</b>	<b>No data available</b>
<b>particle characteristics:</b>	<b>not applicable</b>
9.2. <b>Other information</b>	
<b>Solid content:</b>	<b>52 weight-%</b>
<b>solvent content:</b>	
<b>Organic solvents:</b>	<b>48 weight-%</b>
<b>Water:</b>	<b>0 weight-%</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

Ethylbenzene

oral, LD50, Rat: 3500 mg/kg  
dermal, LD50, Rabbit: 5000 mg/kg  
inhalative (vapours), LC50, Rat: 17,2 mg/L (4 h)

Butan-1-ol

oral, LD50, Rat 1000 - 2000 mg/kg  
dermal, LD50, Rabbit: > 2000 mg/kg  
inhalative (vapours), LC50, Rat: > 17,76 mg/L (4 h)

n-butyl acetate

oral, LD50, Rat: 10760 mg/kg  
Method: OECD 423  
dermal, LD50, Rabbit: 14112 mg/kg  
Method: OECD 402  
inhalative (vapours), LC50, Rat: > 21 mg/L (4 h)  
Method: OECD 403

2-methoxy-1-methylethyl acetate

oral, LD50, Rat: > 5000 mg/kg  
Method: OECD 401  
dermal, LD50, Rabbit: > 5000 mg/kg  
inhalative (vapours), LC50, Rat: 35,7 mg/L (4 h)

octamethylcyclotetrasiloxane

oral, LD50, Rat: > 4800 mg/kg  
dermal, LD50, Rabbit: > 2375 mg/kg  
inhalative (dust and mist), LC50, Rat: 36 mg/L (4 h)  
Method: OECD 403

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oral, LD50, Rat: 3523 mg/kg  
dermal, LD50, Rabbit: 4200 mg/kg  
inhalative (vapours), LC50, Rat 10 - 20 mg/L (4 h)

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: > 10,2 mg/L (4 h)

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

Causes skin irritation.

Causes serious eye irritation.

Butan-1-ol

Skin  
Irritating to skin.  
eyes  
Risk of serious damage to eyes.

n-butyl acetate

Skin (4 h)  
Method: OECD 404  
slightly irritant  
eyes, Rabbit  
Method: OECD 405  
slightly irritant

Xylene

Skin  
Irritant — skin irritation and eye damage  
eyes  
mildly irritating

Hydrocarbons, C9, aromatics

eyes, Rabbit (24 h)  
mild irritant.

**Respiratory or skin sensitisation**

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

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

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

**STOT-single exposure; STOT-repeated exposure**

May cause respiratory irritation.

May cause drowsiness or dizziness.

n-butyl acetate

Specific target organ toxicity (single exposure), drowsiness

2-methoxy-1-methylethyl acetate

Specific target organ toxicity (single exposure), drowsiness

Xylene

Specific target organ toxicity (single exposure), Irritation  
Irritation to respiratory tract

Hydrocarbons, C9, aromatics

Specific target organ toxicity (single exposure), Irritation  
Irritation to respiratory tract  
Specific target organ toxicity (single exposure), drowsiness  
Narcotic effects

**Aspiration hazard**

Ethylbenzene

Aspiration hazard

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Xylene  
Aspiration hazard  
Hydrocarbons, C9, aromatics  
Aspiration hazard

#### 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.

#### Remark

There is no information available on the preparation itself .

#### 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]

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

#### 12.1. Toxicity

##### Ethylbenzene

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

Method: OECD 203

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

Algae toxicity, IC50:, Selenastrum capricornutum: 4,6 mg/L (72 h)

##### Butan-1-ol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 1376 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna: 1328 mg/L (48 h)

Algae toxicity, EC50, Selenastrum capricornutum: 225 mg/L (96 h)

Bacteria toxicity, EC10, Pseudomonas putida: 2476 mg/L (17 h)

##### n-butyl acetate

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

Method: OECD 203

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

Method: OECD 202

Algae toxicity, ErC50, Desmodesmus subspicatus: 397 mg/L (72 h)

Method: OECD 201

Cell proliferation inhibition test

Bacteria toxicity, EC50: 356 mg/L (40 h)

##### 2-methoxy-1-methylethyl acetate

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 100 mg/L (96 h)

Method: OECD 201

Daphnia toxicity, EC50, Daphnia magna: 408 mg/L (48 h)

Bacteria toxicity, EC20:, Activated sludge: > 1000 mg/L (1 h)

Method: OECD 209

Algae toxicity, EC50, Pseudokirchneriella subcapitata: > 1000 mg/L (96 h)

Method: OECD 201

##### octamethylcyclotetrasiloxane

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 0,022 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 0,015 mg/L (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 0,022 mg/L (72 h)

Xylene

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Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2,6 mg/L (96 h)

Method: OECD 203

Algae toxicity, EC50, Pseudokirchneriella subcapitata: 4,36 mg/L (73 h)

Method: OECD 201

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1 mg/L (24 h)

Method: OECD 202

Hydrocarbons, C9, aromatics

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

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 3,2 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 2,629 mg/L (72 h)

Method: OECD 201

### Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

Butan-1-ol

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 4,1 mg/L (21 d)

n-butyl acetate

Daphnia toxicity, NOEC, Daphnia magna: 23 mg/L (21 d)

Method: OECD 211

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 105 mg/L (72 h)

2-methoxy-1-methylethyl acetate

Fish toxicity, NOEC, Oryzias latipes: 47,5 mg/L (14 d)

Daphnia toxicity, NOEC: > 100 mg/L (21 d)

Method: OECD 211

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

octamethylcyclotetrasiloxane

Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout):  $\geq 0,0044$  mg/L (93 d)

Daphnia toxicity, NOEC, Daphnia magna (Big water flea):  $\geq 0,0079$  mg/L (21 d)

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: < 0,022 mg/L (96 h)

Xylene

Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): > 1,3 mg/L (56 d)

Daphnia toxicity, NOEC, Daphnia sp.: 0,96 mg/L (7 d)

Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 0,44 mg/L (72 h)

Method: OECD 201

Bacteria toxicity, NOEC, Activated sludge: 157 mg/L (3 h)

Method: OECD 209

### 12.2. Persistence and degradability

Ethylbenzene

Biodegradation: 100 % (6 d); Evaluation Readily biodegradable (according to OECD criteria)

Method: OECD 301E

Butan-1-ol

Biodegradation: 92 % (20 d); Evaluation OECD

Readily biodegradable (according to OECD criteria)

n-butyl acetate

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

Method: OECD 301D/ EEC 92/69/V, C.4-E

2-methoxy-1-methylethyl acetate

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

Method: OECD 301F

octamethylcyclotetrasiloxane

Biodegradation: 3,7 % (28 d)

Method: OECD 310

Not readily biodegradable (according to OECD criteria)

Xylene

Biodegradation: 87,8 % (28 d); Evaluation Readily biodegradable (according to OECD criteria)

Method: OECD 301F

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Hydrocarbons, C9, aromatics  
Biodegradation, Degree of elimination:: 89 % (28 d); Evaluation Readily biodegradable (according to OECD criteria)  
Method: OECD 301F

**12.3. Bioaccumulative potential**

Ethylbenzene

Partition coefficient: n-octanol/water: 3,2

Butan-1-ol

Partition coefficient n-octanol /water (log P O/W):: 0,88

n-butyl acetate

Partition coefficient n-octanol /water (log P O/W):: 2,3

Method: OECD 117

2-methoxy-1-methylethyl acetate

Partition coefficient n-octanol /water (log P O/W):: 1,2

Method: OECD 117

octamethylcyclotetrasiloxane

Partition coefficient n-octanol /water (log P O/W):: 6,49

Method: OECD 123

Xylene

Partition coefficient: n-octanol/water: 2,77 - 3,15

Hydrocarbons, C9, aromatics

Partition coefficient n-octanol /water (log P O/W):: 3,7 - 4,5

**Bioconcentration factor (BCF)**

Ethylbenzene

Bioconcentration factor (BCF): 1

Butan-1-ol

Bioconcentration factor (BCF): 2,7

n-butyl acetate

Bioconcentration factor (BCF): 15,3

octamethylcyclotetrasiloxane

Bioconcentration factor (BCF), Pimephales promelas (fathead minnow): 12400

Xylene

Bioconcentration factor (BCF), Oncorhynchus mykiss (Rainbow trout): 25,9

**12.4. Mobility in soil**

n-butyl acetate

Surface tension:: 61,3 mN/m

Method: OECD 115

**12.5. Results of PBT and vPvB assessment**

The mixture contains the following substances fulfilling the PBT-/vPvB criteria according to REACH Annex XIII:

EC No. CAS No.	Designation	Remark
209-136-7 556-67-2	octamethylcyclotetrasiloxane	PBT- and/or vPvB-substance

**12.6. Endocrine disrupting properties**

No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

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

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**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)**

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

**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 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**

Category: P5c FLAMMABLE LIQUIDS

Quantity 1: 5000 t / Quantity 2: 50000 t

Category: E2 Hazardous to the aquatic environment in Category Chronic 2

Quantity 1: 200 t / Quantity 2: 500 t

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

VOC product category: (Cat. A/i) ; VOC limit value: 500 g/l

Maximum VOC content of the product in a ready to use condition (in g/L): 500

**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).

**15.2. Chemical Safety Assessment**

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

EC No.	Designation	REACH No.
CAS No.		

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204-658-1 123-86-4	n-butyl acetate	01-2119485493-29
918-668-5 215-535-7 1330-20-7	Hydrocarbons, C9, aromatics Xylene	01-2119455851-35 01-2119488216-32
200-751-6 71-36-3	Butan-1-ol	01-2119484630-38
202-849-4 100-41-4	Ethylbenzene	01-2119489370-35
203-603-9 108-65-6	2-methoxy-1-methylethyl acetate	01-2119475791-29
209-136-7 556-67-2	octamethylcyclotetrasiloxane	01-2119529238-36

**SECTION 16: Other information**

**Full text of classification in section 3:**

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Acute Tox. 4 / H312		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).
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Repr. 2 / H361f	Reproductive toxicity	Suspected of damaging fertility.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.

**Classification procedure**

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

Flam. Liq. 3	Flammable liquids	On basis of test data.
Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.
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

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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	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]

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.