

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830



Article No.: 160227  
Print date: 11.04.2018  
Version: 1.12

WOLFIN Primer  
Revision date: 19.01.2018  
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. product identifiers**

Article No. (manufacturer/supplier) 160227  
Identification of the substance or mixture WOLFIN Primer  
Colour: red, liquid

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

**Relevant identified uses:**

Sealing material / glue

**Uses advised against:**

Do not use for products which come into contact with food stuffs.

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

**manufacturer**

Wolfin Bautechnik GmbH

Am Rosengarten 5

D-63607 Wächtersbach - Neudorf

Telephone: +49 (0)6053 708 5141

Telefax: +49 (0)6053 708-5130

E-mail: service@wolfin.com

**Dept. responsible for information:**

Dr. Thomas Leinhos

+49 (0)171 585 58 01

**1.4. Emergency telephone number**

Emergency telephone number

+49 (0)6131 19240 (Poison Information Center  
Mainz)

**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.

Skin Sens. 1 / H317

Respiratory or skin sensitisation

May cause an allergic skin reaction.

STOT SE 3 / H336

Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.

STOT RE 2 / H373

Specific target organ toxicity (repeated exposure)

May cause damage to organs through prolonged or repeated exposure.

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.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H317

May cause an allergic skin reaction.

H336

May cause drowsiness or dizziness.

H373

May cause damage to organs through prolonged or repeated exposure.

H412

Harmful to aquatic life with long lasting effects.

**Precautionary statements**

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 ventilating equipment.

P241

Use explosion-proof electrical equipment.

P242

Use non-sparking tools.

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|                    |  |
|--------------------|--|
| P243               | Take action to prevent static discharges.  |
| P260               | Do not breathe vapour.   |
| P261               | Avoid breathing vapours.   |
| P264               | Wash hands thoroughly after handling.  |
| P271               | Use only outdoors or in a well-ventilated area.  |
| P272               | Contaminated work clothing should not be allowed out of the workplace.   |
| P273               | Avoid release to the environment.  |
| P280               | Wear protective gloves and eye/face protection.  |
| P280               | Wear protective gloves/protective clothing and eye/face protection.  |
| P302 + P352        | IF ON SKIN: Wash with plenty of soap and water.  |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].                         |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312               | Call a POISON CENTER or doctor/physician if you feel unwell.   |
| P333 + P313        | If skin irritation or rash occurs: Get medical advice/attention.   |
| P337 + P313        | If eye irritation persists: Get medical advice/attention.  |
| P362 + P364        | Take off contaminated clothing and wash it before reuse.   |
| P370 + P378        | In case of fire: Use extinguishing powder or sand to extinguish.   |
| P403 + P233        | Store in a well-ventilated place. Keep container tightly closed.   |
| P403 + P235        | Store in a well-ventilated place. Keep cool.   |
| P405               | Keep locked up.  |
| P501               | Dispose of contents/container to industrial incineration plant.  |

**contains:**

rosin colophony  
 n-butyl acetate  
 xylene (isomeric mixture)

**Supplemental Hazard information (EU)**

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. **Other hazards**

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

3.2. **Mixtures**

\*

**Product description / chemical characterization**

**Description** resin solution

**Hazardous ingredients**

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

| EC No.<br>CAS No.<br>INDEX No.         | REACH No.<br>Chemical name<br>classification // Remark  | Wt %    |
|--|---|---------|
| 232-475-7<br>8050-09-7<br>650-015-00-7 | 01-2119480418-32-XXXX<br>rosin colophony<br>Skin Sens. 1 H317   | 25 - 50 |
| 204-658-1<br>123-86-4<br>607-025-00-1  | 01-2119485493-29<br>n-butyl acetate<br>Flam. Liq. 3 H226 / STOT SE 3 H336   | 25 - 50 |
| 215-535-7<br>1330-20-7<br>601-022-00-9 | 01-2119488216-32-XXXX<br>xylene (isomeric mixture)<br>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 | 10 - 15 |
| 202-849-4<br>100-41-4<br>601-023-00-4  | 01-2119489370-35-XXXX<br>ethylbenzene (part of xylol - isomeric mixture)<br>Flam. Liq. 2 H225 / Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304   | 1 - 2,5 |
| 215-222-5<br>1314-13-2<br>030-013-00-7 | 01-2119463881-32-XXXX<br>zinc oxide<br>Aquatic Acute 1 H400 / Aquatic Chronic 1 H410  | 0,5 - 1 |

**Additional information**

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Full text of classification: see section 16

Ethylbenzen is part of xylene (isomeric mixture). Its named in this chapter because there exist occupational exposure limit values (see chapter 8).

#### **SECTION 4: First aid measures**

##### **4.1. Description of first aid measures**

###### **General information**

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

###### **In case of inhalation**

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

###### **Following skin contact**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

###### **After eye contact**

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

###### **After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

##### **4.2. Most important symptoms and effects, both acute and delayed**

In all cases of doubt, or when symptoms persist, seek medical advice.

##### **4.3. Indication of any immediate medical attention and special treatment needed**

#### **SECTION 5: Firefighting measures**

##### **5.1. Extinguishing media**

###### **Suitable extinguishing media:**

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

###### **Extinguishing media which must not be used for safety reasons:**

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

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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.

**Precautions against fire and explosion:**

Vapours are heavier than air. Vapours form explosive mixtures with air.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**7.3. Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

\*

**Occupational exposure limit values:**

n-butyl acetate

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

TWA: 724 mg/m<sup>3</sup>; 150 ppm

STEL: 966 mg/m<sup>3</sup>; 200 ppm

xylene (isomeric mixture)

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

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

STEL: 662 mg/m<sup>3</sup>; 150 ppm

ethylbenzene (part of xylol - isomeric mixture)

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

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

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

**Additional information**

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

**DNEL:**

rosin colophony

INDEX No. 650-015-00-7 / EC No. 232-475-7 / CAS No. 8050-09-7

DNEL long-term dermal (systemic), Workers: 17 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 117 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 10 mg/kg bw/day

DNEL long-term dermal (systemic), Consumer: 10 mg/kg bw/day

DNEL long-term inhalative (systemic), Consumer: 35 mg/m<sup>3</sup>

zinc oxide

INDEX No. 030-013-00-7 / EC No. 215-222-5 / CAS No. 1314-13-2

DNEL long-term dermal (systemic), Workers: 83 mg/kg bw/day

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DNEL long-term inhalative (local), Workers: 0,5 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 5 mg/m<sup>3</sup>  
DNEL short-term oral (acute), Consumer:  
DNEL long-term dermal (systemic), Consumer: 83 mg/kg bw/day  
DNEL long-term inhalative (systemic), Consumer: 2,5 mg/m<sup>3</sup>

ethylbenzene (part of xylol - isomeric mixture)

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

DNEL long-term dermal (systemic), Workers: 180 mg/kg bw/day  
DNEL acute inhalative (local), Workers: 293 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 77 mg/m<sup>3</sup>  
DNEL short-term oral (acute), Consumer:  
DNEL long-term oral (repeated), Consumer: 1,6 mg/kg  
DNEL long-term inhalative (systemic), Consumer: 15 mg/m<sup>3</sup>

xylene (isomeric mixture)

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

DNEL long-term dermal (systemic), Workers: 180 mg/kg  
DNEL acute inhalative (local), Workers: 289 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Workers: 289 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 77 mg/m<sup>3</sup>  
DNEL long-term dermal (systemic), Consumer: 108 mg/kg  
DNEL acute inhalative (local), Consumer: 174 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Consumer: 174 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 14,8 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 inhalative (systemic), Workers: 960 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Workers: 480 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Consumer: 859,7 mg/m<sup>3</sup>  
DNEL long-term inhalative (systemic), Consumer: 102,34 mg/m<sup>3</sup>

**PNEC:**

rosin colophony

INDEX No. 650-015-00-7 / EC No. 232-475-7 / CAS No. 8050-09-7

PNEC aquatic, freshwater: 0,0016 mg/l  
PNEC aquatic, marine water: 0,0001 mg/l  
PNEC aquatic, intermittent release: 0,016 mg/l  
PNEC sediment, freshwater: 0,007 mg/kg  
PNEC sediment, marine water: 0,0007 mg/kg  
PNEC, soil: 0,0004 mg/kg  
PNEC sewage treatment plant (STP): 1000 mg/l

zinc oxide

INDEX No. 030-013-00-7 / EC No. 215-222-5 / CAS No. 1314-13-2

PNEC aquatic, freshwater: 20,6 µg/l  
PNEC aquatic, marine water: 6,1 µg/l  
PNEC sediment, freshwater: 117,8 mg/kg  
PNEC sediment, marine water: 56,5 mg/kg  
PNEC, soil: 35,6 mg/kg  
PNEC sewage treatment plant (STP): 100 µg/l

ethylbenzene (part of xylol - isomeric mixture)

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

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

xylene (isomeric mixture)

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

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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

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: 0,0903 mg/kg  
PNEC sewage treatment plant (STP): 35,6 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.

### Occupational exposure controls

#### **Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

#### **Hand protection**

For prolonged or repeated handling the following glove material must be used: multilayer (PE / EVAL / PE)

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

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

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

#### **Eye protection**

Wear closely fitting protective glasses in case of splashes.

#### **Protective clothing**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

#### **Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

### Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

#### **Appearance:**

**Physical state:**

**Liquid**

**Colour:**

**red**

**Odour:**

**characteristic**

**Odour threshold:**

**not determined**

**pH at 20 °C:**

**NA**

**Melting point/freezing point:**

**not determined**

**Initial boiling point and boiling range:**

**124 °C**

Method: literature value

Source: n-butyl acetate

**Flash point:**

**24 °C**

Method: literature value

**Evaporation rate:**

**not applicable**

**Flammability (solid, gas):**

**burning time (s):**

**not applicable**

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



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|  |   |
|--|---|
| <b>Lower explosion limit:</b>                  | <b>1 Vol-%</b>  |
| <b>Upper explosion limit:</b>                  | <b>10,4 Vol-%</b><br>Source: n-butyl acetate  |
| <b>Vapour pressure at 20 °C:</b>               | <b>13 mbar</b><br>Method: literature value<br>Source: n-butyl acetate                                   |
| <b>Vapour density:</b>                         | <b>not applicable</b>   |
| <b>Relative density:</b>                       |   |
| <b>Density at 21 °C:</b>                       | <b>0,960 g/cm<sup>3</sup></b><br>Method: literature value   |
| <b>Solubility(ies):</b>                        |   |
| <b>Water solubility (g/L) at 20 °C:</b>        | <b>The study does not need to be conducted because the substance is known to be insoluble in water.</b> |
| <b>Partition coefficient: n-octanol/water:</b> | <b>see section 12</b>   |
| <b>Auto-ignition temperature:</b>              | <b>370 °C</b><br>Method: literature value<br>Source: n-butyl acetate                                    |
| <b>Decomposition temperature:</b>              | <b>not determined</b>   |
| <b>Viscosity at 0 °C:</b>                      | <b>120 s 6 mm</b><br>Method: literature value   |
| <b>Explosive properties:</b>                   | <b>not applicable</b>   |
| <b>Oxidising properties:</b>                   | <b>not applicable</b>   |
| 9.2. <b>Other information</b>                  | *   |
| <b>Solid content (%):</b>                      | <b>54 Wt %</b>  |
| <b>solvent content:</b>                        |   |
| <b>Organic solvents:</b>                       | <b>45 Wt %</b>  |
| <b>Water:</b>                                  | <b>0 Wt %</b>   |
| <b>Solvent separation test (%):</b>            | <b>&lt; 3 Wt % (ADR/RID)</b>  |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

### 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

### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides. The product is stable under storage at normal ambient temperatures. unbekannt

## SECTION 11: Toxicological information

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

No data on preparation itself available.

### 11.1. Information on toxicological effects

#### Acute toxicity

zinc oxide

oral, LD50, Rat: > 5000 mg/kg bw/day (14 d)

Method: OECD 401

ethylbenzene (part of xylol - isomeric mixture)

oral, LD50, Rat: 3500 mg/kg

dermal, LD50, Rabbit: 15400 mg/kg

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inhalative (vapours), LC50, Rat: (4 h)  
Irritating to respiratory system and skin.

xylene (isomeric mixture)

oral, LD50, Rat: 3523 mg/kg

dermal, LD50, Rabbit: > 1700 mg/kg

Harmful in contact with skin.

inhalative (vapours), LC50, Rat: > 21,7 mg/l (4 h)

Harmful by inhalation.

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: 160 mg/l (4 h)

Method: OECD 403

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

xylene (isomeric mixture)

Skin, Rabbit (4 h)

Irritating to skin.; Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).; Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

eyes

Causes serious eye irritation.

**Respiratory or skin sensitisation**

rosin colophony

Skin, Guinea pig:

Method: OECD 406

May cause an allergic skin reaction.

xylene (isomeric mixture)

General information:

not sensitising.

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

Toxicological data are not available.

**Specific target organ toxicity**

ethylbenzene (part of xylol - isomeric mixture)

Specific target organ toxicity (repeated exposure):

May cause damage to organs through prolonged or repeated exposure.

xylene (isomeric mixture)

Specific target organ toxicity (single exposure), Irritation:

May cause respiratory irritation.

Specific target organ toxicity (repeated exposure):

May cause damage to organs through prolonged or repeated exposure.

n-butyl acetate

Specific target organ toxicity (single exposure), drowsiness:

May cause drowsiness or dizziness.

**Aspiration hazard**

xylene (isomeric mixture)

Aspiration hazard

May be fatal if swallowed and enters airways.

**Practical experience/human evidence**

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye



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irritation and reversible damage.

**Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**SECTION 12: Ecological information**

**overall evaluation**

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**

rosin colophony

Fish toxicity, LC50, Brachydanio rerio (zebra-fish): 10 mg/l (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 911 mg/l (48 h)

Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1000 mg/l (72 h)

Method: OECD 201

zinc oxide

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 780 mg/l (96 h)

Very toxic to aquatic organisms.

ethylbenzene (part of xylol - isomeric mixture)

Fish toxicity, LC50: 80 mg/l 3,72 - 285 mg/l (96 h)

Daphnia toxicity, EC50: 4,75 mg/l 2,93 - 13,3 mg/l (48 h)

Algae toxicity, ErC50: 5 mg/l 4,6 - 5,4 mg/l (72 h)

xylene (isomeric mixture)

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 26,7 mg/l 0 - 780 mg/l (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 8,5 mg/l 8,5 - 8,5 mg/l (48 h)

Algae toxicity, Pseudokirchneriella subcapitata: 2,2 (72 h)

**Long-term Ecotoxicity**

zinc oxide

Fish toxicity, LC50: (96 h)

Very toxic to aquatic life with long lasting effects.

Daphnia toxicity, NOEC, Ceriodaphnia dubia: 0,147 - 0,53 mg/l

ethylbenzene (part of xylol - isomeric mixture)

Daphnia toxicity, EC50: 4,75 mg/l 2,93 - 13,3 mg/l (48 h)

**12.2. Persistence and degradability**

xylene (isomeric mixture)

:

Readily biodegradable (according to OECD criteria).

**12.3. Bioaccumulative potential**

ethylbenzene (part of xylol - isomeric mixture)

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

xylene (isomeric mixture)

Partition coefficient: n-octanol/water: 3,16

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

**12.4. Mobility in soil**

Toxicological data are not available.

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

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

**12.6. Other adverse effects**

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product  
Recommendation**

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830



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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**

080409 Waste adhesives and sealants containing organic solvents or other dangerous substances

**packaging**

**Recommendation**

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

**SECTION 14: Transport information**

**14.1. UN number**

UN 1133

**14.2. UN proper shipping name**

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

**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 < 30 litres: Transport in accordance with 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-D

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

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

not applicable

**SECTION 15: Regulatory information**

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

**EU legislation**

**Directive 2010/75/EU on industrial emissions**

VOC-value (in g/L): 450,306

**National regulations**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

**15.2. Chemical Safety Assessment**

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

| EC No.  | Chemical name | REACH No. |
|---------|---------------|-----------|
| CAS No. |               |           |

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830



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|                        |   |                       |
|------------------------|---|-----------------------|
| 232-475-7<br>8050-09-7 | rosin colophony                                 | 01-2119480418-32-XXXX |
| 204-658-1<br>123-86-4  | n-butyl acetate                                 | 01-2119485493-29      |
| 215-535-7<br>1330-20-7 | xylene (isomeric mixture)                       | 01-2119488216-32-XXXX |
| 202-849-4<br>100-41-4  | ethylbenzene (part of xylol - isomeric mixture) | 01-2119489370-35-XXXX |
| 215-222-5<br>1314-13-2 | zinc oxide                                      | 01-2119463881-32-XXXX |

**SECTION 16: Other information**

\*

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

|                          |  |  |
|--------------------------|--|--|
| Skin Sens. 1 / H317      | Respiratory or skin sensitisation                  | May cause an allergic skin reaction.   |
| Flam. Liq. 3 / H226      | Flammable liquids                                  | Flammable liquid and vapour.   |
| STOT SE 3 / H336         | Specific target organ toxicity (single exposure)   | May cause drowsiness or dizziness.   |
| 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 SE 3 / H335         | Specific target organ toxicity (single exposure)   | May cause respiratory irritation.  |
| STOT RE 2 / H373         | Specific target organ toxicity (repeated exposure) | May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard). |
| Asp. Tox. 1 / H304       | Aspiration hazard                                  | May be fatal if swallowed and enters airways.  |
| Flam. Liq. 2 / H225      | Flammable liquids                                  | Highly flammable liquid and vapour.  |
| 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.  |

**Abbreviations and acronyms**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

**Further information**

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

\* Data changed compared with the previous version