

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
Issue 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

Wolfen Bautechnik GmbH
Am Rosengarten 5 Telephone: +49 (0)6053 708 5141
D-63607 Wächtersbach - Neudorf Telefax: +49 (0)6053 708-5130
E-mail: service@wolfen.com

Dept. responsible for information:

Dr. Thomas Leinhos +49 (0)171 585 58 01

1.4. Emergency telephone number

Supplier: Projex Group Pty Ltd ABN: 13 003 859 916
Street Address: Unit 2/1 Military Road Matraville NSW 2036 Web: www.projex.com.au
Phone #: +612 8336 1666 Fax #: +612 9661 9925 Emergency phone #: Australia +61 432664472

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. CAS No. INDEX No.	REACH No. Chemical name classification // Remark	Wt %
232-475-7 8050-09-7 650-015-00-7	01-2119480418-32-XXXX rosin colophony Skin Sens. 1 H317	25 - 50
204-658-1 123-86-4 607-025-00-1	01-2119485493-29 n-butyl acetate Flam. Liq. 3 H226 / STOT SE 3 H336	25 - 50
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32-XXXX xylene (isomeric mixture) 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
202-849-4 100-41-4 601-023-00-4	01-2119489370-35-XXXX ethylbenzene (part of xylol - isomeric mixture) Flam. Liq. 2 H225 / Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304	1 - 2,5
215-222-5 1314-13-2 030-013-00-7	01-2119463881-32-XXXX zinc oxide 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/m³; 150 ppm

STEL: 966 mg/m³; 200 ppm

xylene (isomeric mixture)

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

TWA: 441 mg/m³; 100 ppm

STEL: 662 mg/m³; 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/m³; 100 ppm

STEL: 552 mg/m³; 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/m³

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/m³

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/m³
DNEL long-term inhalative (systemic), Workers: 5 mg/m³
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/m³

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/m³
DNEL long-term inhalative (systemic), Workers: 77 mg/m³
DNEL short-term oral (acute), Consumer:
DNEL long-term oral (repeated), Consumer: 1,6 mg/kg
DNEL long-term inhalative (systemic), Consumer: 15 mg/m³

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/m³
DNEL acute inhalative (systemic), Workers: 289 mg/m³
DNEL long-term inhalative (systemic), Workers: 77 mg/m³
DNEL long-term dermal (systemic), Consumer: 108 mg/kg
DNEL acute inhalative (local), Consumer: 174 mg/m³
DNEL acute inhalative (systemic), Consumer: 174 mg/m³
DNEL long-term inhalative (systemic), Consumer: 14,8 mg/m³

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/m³
DNEL long-term inhalative (systemic), Workers: 480 mg/m³
DNEL acute inhalative (systemic), Consumer: 859,7 mg/m³
DNEL long-term inhalative (systemic), Consumer: 102,34 mg/m³

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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Lower explosion limit:	1 Vol-%
Upper explosion limit:	10,4 Vol-%
	Source: n-butyl acetate
Vapour pressure at 20 °C:	13 mbar
	Method: literature value
	Source: n-butyl acetate
Vapour density:	not applicable
Relative density:	
Density at 21 °C:	0,960 g/cm³
	Method: literature value
Solubility(ies):	
Water solubility (g/L) at 20 °C:	The study does not need to be conducted because the substance is known to be insoluble in water.
Partition coefficient: n-octanol/water:	see section 12
Auto-ignition temperature:	370 °C
	Method: literature value
	Source: n-butyl acetate
Decomposition temperature:	not determined
Viscosity at 0 °C:	120 s 6 mm
	Method: literature value
Explosive properties:	not applicable
Oxidising properties:	not applicable
9.2. Other information	*
Solid content (%):	54 Wt %
solvent content:	
Organic solvents:	45 Wt %
Water:	0 Wt %
Solvent separation test (%):	< 3 Wt % (ADR/RID)

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**

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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 8050-09-7	rosin colophony	01-2119480418-32-XXXX
204-658-1 123-86-4	n-butyl acetate	01-2119485493-29
215-535-7 1330-20-7	xylene (isomeric mixture)	01-2119488216-32-XXXX
202-849-4 100-41-4	ethylbenzene (part of xylol - isomeric mixture)	01-2119489370-35-XXXX
215-222-5 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