

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



Article No.: 359000
Print date: 01.03.2017
Version: 1.16

Primer Lacquer White
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. product identifiers

Article No. (manufacturer/supplier) 359000
Identification of the substance or mixture Primer Lacquer White

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

Relevant identified uses:

Coating (Paint, Varnish).

Uses advised against:

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

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Heinrich König & Co.KG

An der Rosenhelle 5

D-61138 Niederdorfelden

Telephone: +49 6101 5360 0

Telefax: +49 6101 5360 11

Dept. responsible for information:

Laboratory

Only available during office hours:

Telephone: +49 6101 5360 71

Mon - Thurs 08:00 to 16:00

Friday 08:00 - 12:30

E-mail (competent person)

SDB@heinrich-koenig.de

1.4. Emergency telephone number

Emergency telephone number

Emergency CONTACT (24-Hour-Number): GBK
GmbH +49 (0)6132-84463

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].

Aerosol 2 / H223

Aerosol

Flammable aerosol.

Aerosol 2 / H229

Aerosol

Pressurised container: May burst if heated.

Eye Irrit. 2 / H319

Serious eye damage/eye irritation

Causes serious eye irritation.

STOT SE 3 / H336

Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.

Aquatic Chronic 3 / H412

Hazardous to the aquatic environment

Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms



Warning

Hazard statements

H223

Flammable aerosol.

H229

Pressurised container: May burst if heated.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

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.

P211

Do not spray on an open flame or other ignition source.

P251

Do not pierce or burn, even after use.

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P264

Wash hands thoroughly after handling.

P271

Use only outdoors or in a well-ventilated area.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

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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.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P405 Keep locked up.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501.2 Dispose of contents/container via the national/local hazardous waste disposal.

contains:

n-butylacetate

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 Aerosol

Hazardous ingredients

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

EC No. CAS No. INDEX No.	REACH No. Chemical name classification // Remark	Wt %
204-065-8 115-10-6 603-019-00-8	01-2119472128-37-xxxx dimethylether Flam. Gas 1 H220 / compressed gas H280	25 < 50
204-658-1 123-86-4 607-025-00-1 918-668-5	01-2119485493-29-xxxx n-butylacetate Flam. Liq. 3 H226 / STOT SE 3 H336 01-2119455851-35-xxxx Hydrocarbons, C9, aromatics Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H335 / STOT SE 3 H336 / Aquatic Chronic 2 H411	10 < 20 10 < 20
203-550-1 108-10-1 606-004-00-4	01-2119473980-30-xxxx 4-methylpentan-2-one Flam. Liq. 2 H225 / Acute Tox. 4 H332 / Eye Irrit. 2 H319 / STOT SE 3 H335	7 < 10
205-500-4 141-78-6 607-022-00-5	01-2119475103-46-xxxx Ethyl acetate Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	3 < 5
200-661-7 67-63-0 603-117-00-0	01-2119457558-25-xxxx propan-2-ol Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	3 < 5
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32-xxxx xylene, mixture of isomers 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	1 < 2,5

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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

In case of inhalation

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

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respiration.

Following skin contact

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

After eye contact

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

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 chapter 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.

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

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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:

dimethylether

INDEX No. 603-019-00-8 / EC No. 204-065-8 / CAS No. 115-10-6

TWA: 766 mg/m³; 400 ppm

STEL: 958 mg/m³; 500 ppm

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

4-methylpentan-2-one

INDEX No. 606-004-00-4 / EC No. 203-550-1 / CAS No. 108-10-1

TWA: 208 mg/m³; 50 ppm

STEL: 416 mg/m³; 100 ppm

Ethyl acetate

INDEX No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

TWA: 730 mg/m³; 200 ppm

STEL: 1460 mg/m³; 400 ppm

propan-2-ol

INDEX No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

TWA: 999 mg/m³; 400 ppm

STEL: 1250 mg/m³; 500 ppm

xylene, mixture of isomers

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

Additional information

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

dimethylether

INDEX No. 603-019-00-8 / EC No. 204-065-8 / CAS No. 115-10-6

DNEL long-term inhalative (systemic), Workers: 1894 mg/m³

DNEL long-term inhalative (systemic), Consumer: 471 mg/m³

Ethyl acetate

INDEX No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

DNEL long-term dermal (systemic), Workers: 63 mg/kg

DNEL acute inhalative (local), Workers: 1468 mg/m³

DNEL acute inhalative (systemic), Workers: 1468 mg/m³

DNEL long-term inhalative (local), Workers: 734 mg/m³

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DNEL long-term inhalative (systemic), Workers: 734 mg/m³
DNEL long-term oral (repeated), Consumer: 4,5 mg/kg
DNEL long-term dermal (systemic), Consumer: 37 mg/kg
DNEL acute inhalative (local), Consumer: 734 mg/m³
DNEL acute inhalative (systemic), Consumer: 734 mg/m³
DNEL long-term inhalative (local), Consumer: 367 mg/m³
DNEL long-term inhalative (systemic), Consumer: 367 mg/m³

propan-2-ol

INDEX No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

DNEL long-term dermal (systemic), Workers: 888 mg/kg
DNEL long-term inhalative (systemic), Workers: 500 mg/m³
DNEL long-term oral (repeated), Consumer: 26 mg/kg
DNEL long-term dermal (systemic), Consumer: 319 mg/kg
DNEL long-term inhalative (systemic), Consumer: 89 mg/m³

4-methylpentan-2-one

INDEX No. 606-004-00-4 / EC No. 203-550-1 / CAS No. 108-10-1

DNEL long-term dermal (systemic), Workers: 11,8 mg/kg
DNEL acute inhalative (local), Workers: 208 mg/m³
DNEL acute inhalative (systemic), Workers: 208 mg/m³
DNEL long-term inhalative (local), Workers: 83 mg/m³
DNEL long-term inhalative (systemic), Workers: 83 mg/m³
DNEL long-term oral (repeated), Consumer: 4,2 mg/kg
DNEL long-term dermal (systemic), Consumer: 4,2 mg/kg
DNEL acute inhalative (local), Consumer: 155,2 mg/m³
DNEL acute inhalative (systemic), Consumer: 155,2 mg/m³
DNEL long-term inhalative (local), Consumer: 14,7 mg/m³
DNEL long-term inhalative (systemic), Consumer: 14,7 mg/m³

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/m³
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/m³

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: 7 mg/kg
DNEL acute inhalative (local), Workers: 600 mg/m³
DNEL acute inhalative (systemic), Workers: 600 mg/m³
DNEL long-term inhalative (local), Workers: 300 mg/m³
DNEL long-term inhalative (systemic), Workers: 48 mg/m³
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: 3,4 mg/kg
DNEL acute inhalative (local), Consumer: 300 mg/m³
DNEL acute inhalative (systemic), Consumer: 300 mg/m³
DNEL long-term inhalative (local), Consumer: 35,7 mg/m³
DNEL long-term inhalative (systemic), Consumer: 12 mg/m³

xylene, mixture of isomers

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

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PNEC:

dimethylether

INDEX No. 603-019-00-8 / EC No. 204-065-8 / CAS No. 115-10-6

PNEC sediment, freshwater: 0,681 mg/kg

PNEC, Soil: 0,045 mg/kg

PNEC sewage treatment plant (STP): 160 mg/l

Ethyl acetate

INDEX No. 607-022-00-5 / EC No. 205-500-4 / CAS No. 141-78-6

PNEC aquatic, freshwater: 0,24 mg/l

PNEC aquatic, marine water: 0,024 mg/l

PNEC aquatic, intermittent release: 1,65 mg/l

PNEC sediment, freshwater: 0,34 mg/kg

PNEC sediment, marine water: 0,034 mg/kg

PNEC, Soil: 0,148 mg/kg

PNEC sewage treatment plant (STP): 650 mg/l

propan-2-ol

INDEX No. 603-117-00-0 / EC No. 200-661-7 / CAS No. 67-63-0

PNEC aquatic, freshwater: 140,9 mg/l

PNEC aquatic, marine water: 140,9 mg/l

PNEC aquatic, intermittent release: 140,9 mg/l

PNEC sediment, freshwater: 552 mg/kg

PNEC sediment, marine water: 552 mg/kg

PNEC, Soil: 28 mg/kg

PNEC sewage treatment plant (STP): 2251 mg/l

PNEC Secondary Poisoning: 160 mg/kg

4-methylpentan-2-one

INDEX No. 606-004-00-4 / EC No. 203-550-1 / CAS No. 108-10-1

PNEC aquatic, freshwater: 0,6 mg/l

PNEC aquatic, marine water: 0,06 mg/l

PNEC aquatic, intermittent release: 1,5 mg/l

PNEC sediment, freshwater: 8,27 mg/kg

PNEC sediment, marine water: 0,83 mg/kg

PNEC, Soil: 1,3 mg/kg

PNEC sewage treatment plant (STP): 27,5 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

xylene, mixture of isomers

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.

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.

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Hand protection

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)

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: refer to label

Odour: Preparations containing solvent

Odour threshold: not applicable

pH at 20 °C: N.A.

Melting point/freezing point: n.a.

Initial boiling point and boiling range: -25 °C
Method: calculated.
Source: dimethyl ether

Flash point: -41 °C

Evaporation rate: 0,4 mg/s
Source: Ethyl acetate

Flammability (solid, gas):
burning time (s): not applicable

Upper/lower flammability or explosive limits:

Lower explosion limit: 2,46 Vol-%
Method: calculated.
Upper explosion limit: 26,2 Vol-%
Method: calculated.
Source: dimethyl ether

Vapour pressure at 20 °C: 2039,0687 mbar
Method: calculated.

Vapour density: not applicable

Relative density:
Density at 20 °C: 0,85 g/cm³
Method: calculated.

Solubility(ies):
Water solubility (g/L) at 20 °C: insoluble

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

Auto-ignition temperature: not applicable

Decomposition temperature: not applicable

Viscosity at 20 °C: 30 s 4 mm
Method: DIN 53211

Explosive properties: not applicable

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Oxidising properties:	not applicable
9.2. Other information	
Solid content (%):	20,71 Wt %
solvent content:	
Organic solvents:	79 Wt %
Water:	0 Wt %

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 chapter 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.

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

dimethyl ether

oral, LD50, Rat: > 10000 mg/kg

Based on available data the classification criteria are not met.

Ethyl acetate

oral, LD50, Rat: 5620 mg/kg

dermal, LD50, Rabbit: > 18000 mg/kg

inhalative (vapours), LC50, Rat: 56 mg/l (4 h)

Based on available data the classification criteria are not met.

propan-2-ol

oral, LD50, Rat: 5840 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 2000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: 30 mg/l (4 h)

Based on available data the classification criteria are not met.

4-methylpentan-2-one

oral, LD50, Rat: > 2193 mg/kg

Method: OECD 401

dermal, LD50, Rat: > 2000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: 8,3 - 16,6 mg/l (4 h)

Harmful by inhalation.

Hydrocarbons, C9, aromatics

oral, LD50, Rat: 3592 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 3160 mg/kg

Method: OECD 402

Based on available data the classification criteria are not met.

n-butyl acetate

oral, LD50, Rat: 10760 mg/kg

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Method: OECD 423
dermal, LD50, Rabbit: > 14112 mg/kg
Method: OECD 402
inhalative (vapours), LC50, Rat: 23,4 mg/l (4 h)
Method: OECD 403
Based on available data the classification criteria are not met.

xylene, mixture of isomers
oral, LD50, Rat: > 2000 mg/kg
dermal, LD50, Rabbit: > 1700 mg/kg
inhalative (vapours), LC50, Rat: > 21,7 mg/l (4 h)
Harmful in contact with skin or if inhaled.

skin corrosion/irritation; Serious eye damage/eye irritation

Ethyl acetate
eyes
Causes serious eye irritation.

propan-2-ol
eyes
Causes serious eye irritation.

4-methylpentan-2-one
eyes
Causes serious eye irritation.

xylene, mixture of isomers
Skin (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

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Toxicological data are not available.

Specific target organ toxicity

Ethyl acetate
Specific target organ toxicity (single exposure), drowsiness:
May cause drowsiness or dizziness.

propan-2-ol
Specific target organ toxicity (single exposure), drowsiness:
May cause drowsiness or dizziness.

4-methylpentan-2-one
Specific target organ toxicity (single exposure), Irritation:
May cause respiratory irritation.

Hydrocarbons, C9, aromatics
Specific target organ toxicity (single exposure), Irritation:
May cause respiratory irritation.
Specific target organ toxicity (single exposure), drowsiness:
May cause drowsiness or dizziness.

n-butyl acetate
Specific target organ toxicity (single exposure), drowsiness:
May cause drowsiness or dizziness.

xylene, mixture of isomers
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.

Aspiration hazard

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Hydrocarbons, C9, aromatics
Aspiration hazard
May be fatal if swallowed and enters airways.

xylene, mixture of isomers
Aspiration hazard
May be fatal if swallowed and enters airways.

Practical experience/human evidence

Other observations:

Inhalation 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.

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

Ethyl acetate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 230 mg/l (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 610 mg/l (48 h)
Algae toxicity, ErC50, Scenedesmus subspicatus: 5600 mg/l (48 h)
Based on available data the classification criteria are not met.

propan-2-ol

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 9640 mg/l (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 9714 mg/l (48 h)
Algae toxicity, ErC50, Scenedesmus quadricauda: > 100 mg/l (72 h)
Bacteria toxicity: > 100 mg/l
Based on available data the classification criteria are not met.

4-methylpentan-2-one

Fish toxicity, LC50: > 179 mg/l (96 h)
Method: OECD 202
Daphnia toxicity, EC50, Daphnia magna: > 200 mg/l (48 h)
Method: OECD 202
Bacteria toxicity, EC50, Pseudomonas putida: 275 mg/l (16 h)
Based on available data the classification criteria are not met.

Hydrocarbons, C9, aromatics

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 9,2 mg/l (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 3,2 mg/l (48 h)
Method: OECD 202
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 2,6 - 2,9 mg/l (72 h)
Based on available data the classification criteria are not met.

n-butyl acetate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 18 mg/l (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 44 mg/l (48 h)
Method: OECD 202
Algae toxicity, EC50, Desmodesmus subspicatus.: 397 mg/l (72 h)
Method: OECD 201
Based on available data the classification criteria are not met.

xylene, mixture of isomers

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2,6 mg/l (96 h)
Method: OECD 203

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Daphnia toxicity, IC50:, Daphnia magna (Big water flea): 1 mg/l (24 h)
Method: OECD 202
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 2,2 mg/l (72 h)
Method: OECD 201
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
Based on available data the classification criteria are not met.

Long-term Ecotoxicity

Ethyl acetate

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 2,4 mg/l (21 D)
Method: DIN 38412 / part 11
Algae toxicity, NOEC, Desmodesmus subspicatus.: > 100 mg/l (72 h)
Method: OECD 201.
Based on available data the classification criteria are not met.

4-methylpentan-2-one

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 30 - 35 mg/l (21 D)
Method: OECD 211
Based on available data the classification criteria are not met.

Hydrocarbons, C9, aromatics

Fish toxicity, LC50: (96 h)
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

xylene, mixture of isomers

Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): > 1,3 mg/l (56 D)
Daphnia toxicity, NOEC, Ceriodaphnia spec: 1,17 mg/l (7 D)
Based on available data the classification criteria are not met.

12.2. Persistence and degradability

Ethyl acetate

Biodegradation: 79 %
Method: OECD 301D
Readily biodegradable (according to OECD criteria).

propan-2-ol

Biodegradation: 53 % (5 D)
Readily biodegradable (according to OECD criteria).

4-methylpentan-2-one

Biodegradation: 83 % (28 D)
Method: OECD 301 F
Readily biodegradable (according to OECD criteria).

Hydrocarbons, C9, aromatics

Biodegradation:
Readily biodegradable (according to OECD criteria).

n-butyl acetate

Biodegradation, aerobic: 83 % (28 D)
Method: OECD 301D
Readily biodegradable (according to OECD criteria).

xylene, mixture of isomers

Biodegradation:
Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

dimethyl ether

Partition coefficient: n-octanol/water: < 4

Ethyl acetate

Partition coefficient: n-octanol/water: 0,68

propan-2-ol

Partition coefficient: n-octanol/water: 0,05

4-methylpentan-2-one

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Partition coefficient: n-octanol/water: 1,31 0 - 1,9
n-butyl acetate
Partition coefficient: n-octanol/water: 2,3
Method: OECD 117
xylene, mixture of isomers
Partition coefficient: n-octanol/water: 2,77
Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

Bioconcentration factor (BCF)

xylene, mixture of isomers
Bioconcentration factor (BCF), Oncorhynchus mykiss (Rainbow trout): 25,9
No indication of bioaccumulation potential.

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

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

150110 packaging containing residues of or contaminated by 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 1950

14.2. UN proper shipping name

Land transport (ADR/RID): Aerosols, flammable
Sea transport (IMDG): AEROSOLS
Air transport (ICAO-TI / IATA-DGR): Aerosols, flammable

14.3. Transport hazard class(es)

2.1

14.4. Packing group

not applicable

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

Sea transport (IMDG)

EmS-No. F-D, S-U

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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): 675,945

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. CAS No.	Chemical name	REACH No.
204-065-8 115-10-6	dimethyl ether	01-2119472128-37-xxxx
204-658-1 123-86-4	n-butyl acetate	01-2119485493-29-xxxx
918-668-5	Hydrocarbons, C9, aromatics	01-2119455851-35-xxxx
203-550-1 108-10-1	4-methylpentan-2-one	01-2119473980-30-xxxx
205-500-4 141-78-6	Ethyl acetate	01-2119475103-46-xxxx
200-661-7 67-63-0	propan-2-ol	01-2119457558-25-xxxx
215-535-7 1330-20-7	xylene, mixture of isomers	01-2119488216-32-xxxx

SECTION 16: Other information

Full text of classification in section 3:

Flam. Gas 1 / H220 compressed gas / H280	flammable gases Gases under pressure	Extremely flammable gas. Contains gas under pressure; may explode if heated.
Flam. Liq. 3 / H226 STOT SE 3 / H336	Flammable liquids Specific target organ toxicity (single exposure)	Flammable liquid and vapour. May cause drowsiness or dizziness.
Asp. Tox. 1 / H304 STOT SE 3 / H335	Aspiration hazard Specific target organ toxicity (single exposure)	May be fatal if swallowed and enters airways. May cause respiratory irritation.
Aquatic Chronic 2 / H411 Flam. Liq. 2 / H225 Acute Tox. 4 / H332 Eye Irrit. 2 / H319 Acute Tox. 4 / H312 Skin Irrit. 2 / H315 STOT RE 2 / H373	Hazardous to the aquatic environment Flammable liquids Acute toxicity (inhalative) Serious eye damage/eye irritation Acute toxicity (dermal) skin corrosion/irritation Specific target organ toxicity (repeated exposure)	Toxic to aquatic life with long lasting effects. Highly flammable liquid and vapour. Harmful if inhaled. Causes serious eye irritation. Harmful in contact with skin. Causes skin irritation. 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).

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

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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.