

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



Article No.: 3XX300
Print date: 29.02.2024
Version: 1.9

Special Repair Lacquer PLUS
Revision date: 29.02.2024
Issue date: 29.02.2024

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

1.1. product identifiers

Article No. (manufacturer/supplier) 3XX300
Trade name/designation Special Repair Lacquer PLUS
Art.no: 336300;337300;338300;339300;340300
UFI: HV3C-UVTQ-K20T-KDSA

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

1.3. Details of the supplier of the safety data sheet

Manufacturer/supplier

Heinrich König GmbH & Co. KG
An der Rosenhelle 5
61138 Niederdorfelden
Germany

Telephone: +49 (0)6101 5360 0
Telefax: +49 (0)6101 5360 11
E-mail: Info@heinrich-koenig.de
Website: www.heinrich-koenig.de

Department responsible for information:

Laboratory Telephone: +49 (0)6101 5360 71
Only available during office hours: 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 1 / H222	Aerosol	Extremely flammable aerosol.
Aerosol 1 / 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	STOT-single exposure	May cause drowsiness or dizziness.

2.2. Label elements

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

Hazard pictograms



Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Hazard components for labelling

n-butyl acetate

Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

No information available.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description NC combination lacquer

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

EC No. CAS No. Index No.	REACH No. Designation classification // Remark	weight-%
204-065-8 115-10-6 603-019-00-8	01-2119472128-37-xxxx dimethyl ether Flam. Gas 1 H220 / Liquefied gas H280	25 < 50
204-658-1 123-86-4 607-025-00-1	01-2119485493-29-xxxx n-butyl acetate Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066	25 < 50
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 / EUH066	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
201-148-0 78-83-1 603-108-00-1	01-2119484609-23-xxxx 2-methylpropan-1-ol Flam. Liq. 3 H226 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / STOT SE 3 H336	1 < 2,5
203-539-1 107-98-2 603-064-00-3	01-2119457435-35-xxxx 1-methoxy-2-propanol Flam. Liq. 3 H226 / STOT SE 3 H336	1 < 2,5
252-104-2 34590-94-8	01-2119450011-60-xxxx (2-methoxymethylethoxy)propanol Substance with a common (EC) occupational exposure limit value.	1 < 2,5
200-578-6 64-17-5 603-002-00-5	01-2119457610-43-xxxx Ethanol Flam. Liq. 2 H225	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 respiration.

Following skin contact

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

After eye contact

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

Following ingestion

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

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

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

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

First Aid, decontamination, treatment of symptoms.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

strong water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Further information

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on joint storage

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

Further information on storage conditions

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

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

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SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Occupational exposure limit values:

not determined

DNEL:

dimethyl ether

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

(2-methoxymethylethoxy)propanol

EC No. 252-104-2 / CAS No. 34590-94-8

DNEL long-term dermal (systemic), Workers: 283 mg/kg

DNEL long-term inhalative (systemic), Workers: 308 mg/m³

DNEL long-term oral (repeated), Consumer: 36 mg/kg

DNEL long-term dermal (systemic), Consumer: 121 mg/kg

DNEL long-term inhalative (systemic), Consumer: 37,2 mg/m³

1-methoxy-2-propanol

Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

DNEL long-term dermal (systemic), Workers: 183 mg/kg

DNEL acute inhalative (local), Workers: 553,5 mg/m³

DNEL acute inhalative (systemic), Workers: 553,5 mg/m³

DNEL long-term inhalative (systemic), Workers: 369 mg/m³

DNEL long-term oral (repeated), Consumer: 33 mg/kg

DNEL long-term dermal (systemic), Consumer: 78 mg/kg

DNEL long-term inhalative (systemic), Consumer: 43,9 mg/m³

Ethanol

Index No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5

DNEL long-term dermal (systemic), Workers: 343 mg/kg

DNEL acute inhalative (local), Workers: 1900 mg/m³

DNEL long-term inhalative (systemic), Workers: 950 mg/m³

DNEL long-term oral (repeated), Consumer: 87 mg/kg

DNEL acute dermal, short-term (systemic), Consumer: 950 mg/kg

DNEL long-term dermal (systemic), Consumer: 206 mg/kg

DNEL acute inhalative (local), Consumer: 950 mg/m³

DNEL long-term inhalative (systemic), Consumer: 114 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

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

n-butyl acetate

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

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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

2-methylpropan-1-ol

Index No. 603-108-00-1 / EC No. 201-148-0 / CAS No. 78-83-1

DNEL long-term inhalative (local), Workers: 310 mg/m³
DNEL long-term inhalative (local), Consumer: 55 mg/m³

PNEC:

dimethyl ether

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

PNEC aquatic, freshwater: 0,155 mg/L
PNEC sediment, freshwater: 0,681 mg/kg
PNEC, soil: 0,045 mg/kg
PNEC sewage treatment plant (STP): 160 mg/L

(2-methoxymethylethoxy)propanol

EC No. 252-104-2 / CAS No. 34590-94-8

PNEC aquatic, freshwater: 19 mg/L
PNEC aquatic, marine water: 1,9 mg/L
PNEC aquatic, intermittent release: 190 mg/L
PNEC sediment, freshwater: 70,2 mg/kg
PNEC sediment, marine water: 7,02 mg/kg
PNEC, soil: 2,74 mg/kg
PNEC sewage treatment plant (STP): 4168 mg/L

1-methoxy-2-propanol

Index No. 603-064-00-3 / EC No. 203-539-1 / CAS No. 107-98-2

PNEC aquatic, freshwater: 10 mg/L
PNEC aquatic, marine water: 1 mg/L
PNEC aquatic, intermittent release: 100 mg/L
PNEC sediment, freshwater: 52,3 mg/kg
PNEC sediment, marine water: 5,2 mg/kg
PNEC, soil: 4,59 mg/kg
PNEC sewage treatment plant (STP): 100 mg/L

Ethanol

Index No. 603-002-00-5 / EC No. 200-578-6 / CAS No. 64-17-5

PNEC aquatic, freshwater: 0,96 mg/L
PNEC aquatic, marine water: 0,79 mg/L
PNEC aquatic, intermittent release: 2,75 mg/L
PNEC sediment, freshwater: 3,6 mg/kg
PNEC sediment, marine water: 2,9 mg/kg
PNEC, soil: 0,63 mg/kg
PNEC sewage treatment plant (STP): 580 mg/L
PNEC Secondary Poisoning: 0,72 mg/kg

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: 1,15 mg/kg
PNEC sediment, marine water: 0,034 mg/kg

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PNEC, soil: 0,148 mg/kg
PNEC sewage treatment plant (STP): 650 mg/L
PNEC Secondary Poisoning: 200 mg/kg

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

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

2-methylpropan-1-ol

Index No. 603-108-00-1 / EC No. 201-148-0 / CAS No. 78-83-1

PNEC aquatic, freshwater: 0,4 mg/L
PNEC aquatic, marine water: 0,04 mg/L
PNEC aquatic, intermittent release: 11 mg/L
PNEC sediment, freshwater: 1,52 mg/kg
PNEC sediment, marine water: 0,125 mg/kg
PNEC, soil: 0,076 mg/kg
PNEC sewage treatment plant (STP): 10 mg/L

8.2. Exposure controls

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

Personal protection equipment

Respiratory protection

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

Hand protection

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

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

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

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

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

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

Protective measures

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

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: refer to label

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Odour:	characteristic
Odour threshold:	not determined
Melting point/freezing point:	-142 °C Source: dimethyl ether
Initial boiling point and boiling range:	-24 °C Method: calculated. Source: dimethyl ether
Flammability:	Extremely flammable aerosol.
Lower and upper explosion limit:	
Lower explosion limit:	2,1 Vol-% Method: calculated.
Upper explosion limit:	50 Vol-% Method: calculated. Source: Methanol
Flash point:	-41 °C Method: EN ISO 2719
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH at 20 °C:	not applicable
Kinematic viscosity (40°C):	20 mm²/s
Viscosity at 20 °C:	12 s 4 mm Method: DIN 53211
Solubility(ies):	
Water solubility at 20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	3540,9628 mbar Method: calculated.
Density and/or relative density:	
Density at 20 °C:	0,79 g/cm³ Method: calculated.
Relative vapour density:	not determined
particle characteristics:	not applicable
9.2. Other information	
Solid content:	6,73 weight-%
solvent content:	
Organic solvents:	93 weight-%
Water:	0 weight-%

SECTION 10: Stability and reactivity

- 10.1. Reactivity**
No information available.
- 10.2. Chemical stability**
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.
- 10.3. Possibility of hazardous reactions**
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.
- 10.4. Conditions to avoid**
Hazardous decomposition byproducts may form with exposure to high temperatures.
- 10.5. Incompatible materials**
not applicable
- 10.6. Hazardous decomposition products**
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide,

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smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

Acute toxicity

dimethyl ether

inhalative (Gases), LC50, Rat: > 20000 ppmV (4 h)

(2-methoxymethylethoxy)propanol

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rabbit: 9510 mg/kg

inhalative (vapours), LC50, Rat: 3,35 mg/L 3,35 (4 h)

Based on available data the classification criteria are not met.

1-methoxy-2-propanol

oral, LD50, Rat: 4016 mg/kg

dermal, LD50, Rabbit: > 2000 mg/kg

inhalative (vapours), LC50, Rat: > 25,8 mg/L (4 h)

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

Ethanol

oral, LD50, Rat: 10470 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 2000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: 51 mg/L (4 h)

Method: OECD 403

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

Ethyl acetate

oral, LD50, Rat: 4934 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 20000 mg/kg

inhalative (vapours), LC50, Rat: 29,3 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: 13900 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: 25 mg/L (4 h); Evaluation OECD 403

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: 23,4 mg/L (4 h)

Method: OECD 403

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

2-methylpropan-1-ol

oral, LD50, Rat: 3350 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 2000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: > 18,18 mg/L (4 h)

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

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes serious eye irritation.

Ethyl acetate

eyes

Causes serious eye irritation.

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propan-2-ol
eyes
Method: OECD 405
Causes serious eye irritation.

2-methylpropan-1-ol
Skin, Rabbit
Method: OECD 404
Causes skin irritation.
eyes, Rabbit
Method: OECD 405
Causes serious eye irritation.

Respiratory or skin sensitisation

2-methylpropan-1-ol
Skin:
not sensitising.
Respiratory system:
not sensitising.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

STOT-single exposure; STOT-repeated exposure

May cause drowsiness or dizziness.

dimethyl ether
Specific target organ toxicity (single exposure), drowsiness Evaluation May cause drowsiness or dizziness.
literature value

1-methoxy-2-propanol
Specific target organ toxicity (single exposure), drowsiness
May cause drowsiness or dizziness.

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

propan-2-ol
Specific target organ toxicity (single exposure), drowsiness Evaluation central nervous system
May cause drowsiness or dizziness.

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

2-methylpropan-1-ol
Specific target organ toxicity (single exposure), Irritation
May cause respiratory irritation.
Specific target organ toxicity (single exposure), drowsiness
May cause drowsiness or dizziness.

Aspiration hazard

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

Practical experience/human evidence

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

Overall assessment on CMR properties

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

11.2. **Information on other hazards**

Endocrine disrupting properties

No information available.

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SECTION 12: Ecological information

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

Do not allow to enter into surface water or drains.

12.1. Toxicity

(2-methoxymethylethoxy)propanol

Fish toxicity, LC50, *Poecilia reticulata* (Guppy): > 1000 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 1919 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50, *Pseudokirchneriella subcapitata*: > 969 mg/L (96 h)

Method: OECD 201

Bacteria toxicity, EC10, *Pseudomonas putida*: 4168 mg/L (18 h)

Based on available data the classification criteria are not met.

1-methoxy-2-propanol

Fish toxicity, LC50, *Leuciscus idus* (golden orfe): 6812 mg/L (96 h)

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

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea) 21100 - 25900 mg/L (48 h)

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

Algae toxicity, ErC50, *Pseudokirchneriella subcapitata*: > 1000 mg/L (168 h); Evaluation Inhibition of growth rate.

Method: OECD 201

Ethanol

Fish toxicity, LC50, *Pimephales promelas* (fathead minnow): 15300 mg/L (96 h)

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 12340 mg/L (48 h)

Algae toxicity, ErC50, *Chlorella vulgaris*: 275 mg/L (72 h)

Method: OECD 201

Bacteria toxicity, EC50, *Pseudomonas putida*: 5800 mg/L (4 h)

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

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, *Desmodesmus 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)

Method: OECD 203

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): > 100 mg/L (48 h)

Algae toxicity, ErC50, *Scenedesmus subspicatus*: > 100 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.

2-methylpropan-1-ol

Fish toxicity, LC50, *Pimephales promelas* (fathead minnow): 1430 mg/L (96 h)

Daphnia toxicity, EC50, *Daphnia magna* (Big water flea): 1100 mg/L (48 h)

Algae toxicity, ErC50, *Pseudokirchneriella subcapitata*: 632 mg/L (72 h)

Method: OECD 201

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

Long-term Ecotoxicity

(2-methoxymethylethoxy)propanol

Daphnia toxicity, NOEC, *Daphnia magna* (Big water flea): > 0,5 mg/L (22 D)

Based on available data the classification criteria are not met.

1-methoxy-2-propanol

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Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1000 mg/L (168 h)
Based on available data, the classification criteria are not met.

Ethyl acetate

Fish toxicity, NOEC, Pimephales promelas (fathead minnow): > 9,65 mg/L (32 d)

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 2,4 mg/L (21 D)

Method: OECD 211

Algae toxicity, NOEC, Desmodesmus subspicatus.: > 100 mg/L (72 h)

Method: OECD 201.

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

2-methylpropan-1-ol

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 20 mg/L (21 D)

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

12.2. Persistence and degradability

(2-methoxymethylethoxy)propanol

Biodegradation: 75 % (28 D)

Method: OECD 301 F

Readily biodegradable (according to OECD criteria).

1-methoxy-2-propanol

Biodegradation: 96 % (28 d)

Method: OECD 301E

Readily biodegradable (according to OECD criteria).

Ethanol

Biodegradation, aerobic.: 97 % (28 D)

Readily biodegradable (according to OECD criteria).

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).

n-butyl acetate

Biodegradation, aerobic: 83 % (28 D)

Method: OECD 301D

Readily biodegradable (according to OECD criteria).

2-methylpropan-1-ol

Biodegradation, Activated sludge: 70 - 80 % (28 D)

Method: OECD 301D

12.3. Bioaccumulative potential

dimethyl ether

Partition coefficient: n-octanol/water: 0,7

Method: Log KOW

(2-methoxymethylethoxy)propanol

Partition coefficient: n-octanol/water: 0,006

1-methoxy-2-propanol

Partition coefficient: n-octanol/water: 0,37

Ethanol

Partition coefficient: n-octanol/water: -0,35

Ethyl acetate

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

propan-2-ol

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

n-butyl acetate

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

Method: OECD 117

2-methylpropan-1-ol

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Partition coefficient: n-octanol/water: 1

Bioconcentration factor (BCF)

(2-methoxymethylethoxy)propanol
Bioconcentration factor (BCF): < 100

Ethanol
Bioconcentration factor (BCF): 0,66
No indication of bioaccumulation potential.

12.4. Mobility in soil

propan-2-ol
:
water-soluble

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product Recommendation

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

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

150110* packaging containing residues of or contaminated by dangerous substances

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

Appropriate disposal / Package Recommendation

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

SECTION 14: Transport information

14.1. UN number or ID number

UN 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 determined

14.5. Environmental hazards

Land transport (ADR/RID) not determined

Marine pollutant not determined

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

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Sea transport (IMDG)

EmS-No. F-D, S-U

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

EU legislation

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

VOC-value (in g/L): 738

National regulations

Restrictions of occupation

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

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

15.2. Chemical Safety Assessment

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

EC No. CAS No.	Designation	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
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
201-148-0 78-83-1	2-methylpropan-1-ol	01-2119484609-23-xxxx
203-539-1 107-98-2	1-methoxy-2-propanol	01-2119457435-35-xxxx
252-104-2 34590-94-8	(2-methoxymethylethoxy)propanol	01-2119450011-60-xxxx
200-578-6 64-17-5	Ethanol	01-2119457610-43-xxxx

SECTION 16: Other information

Full text of classification in section 3

Flam. Gas 1 / H220	flammable gases	Extremely flammable gas.
Liquefied gas / H280	Gases under pressure	Contains gas under pressure; may explode if heated.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.

Classification procedure

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

Aerosol 1	Aerosol	On basis of test data.
Aerosol 1	Aerosol	On basis of test data.
Eye Irrit. 2	Serious eye damage/eye irritation	Calculation method.
STOT SE 3	STOT-single exposure	Calculation method.

Abbreviations and acronyms

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

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OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Further information

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

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