

# Safety Data Sheet

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

Article No.: 744 HAMMER Hammerschlaglack-Spray  
Print date: 27.12.2022 Revision date: 10.12.2022 EN  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. product identifiers

Article No. (manufacturer/supplier) 744  
Trade name/designation HAMMER Hammerschlaglack-Spray  
UFI: 2S7V-550G-299F-JF68

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

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

**supplier (manufacturer/importer/downstream user/distributor)**  
Vismara Unternehmungen CH-5000 Aarau www.farbladen.ch

### Department responsible for information:

laboratory Manager  
E-mail (competent person) info@knuchel.ch

### 1.4. Emergency telephone number

Emergency telephone number 145 (+41 (0)44 251 51 51)

## 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

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
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 vapours.  
P264 Wash hands thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves and eye/face protection.  
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.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Keep locked up.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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P501 Dispose of contents/container to industrial incineration plant.

#### 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.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

**Description** solvent-based alkyd resin, containing the following hazardous substances:

#### 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 dimethyl ether Flam. Gas 1 H220 / Press. Gas Substance with a common (EC) occupational exposure limit value.	25 - 40
204-658-1 123-86-4 607-025-00-1	01-2119485493-29 n-butyl acetate Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066	15 - 25
200-662-2 67-64-1 606-001-00-8	01-2119471330-49 Acetone Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	5 - 10
203-603-9 108-65-6 607-195-00-7	01-2119475791-29 2-methoxy-1-methylethyl acetate Flam. Liq. 3 H226 Substance with a common (EC) occupational exposure limit value.	5 - 10
919-857-5	01-2119463258-33 Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics STOT SE 3 H336 / Asp. Tox. 1 H304 / Flam. Liq. 3 H226	5 - 10
205-500-4 141-78-6 607-022-00-5	01-2119475103-46 Ethyl acetate Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066	1 - 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.

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

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

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

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

strong water jet

### 5.2. Special hazards arising from the substance or mixture

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

### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. 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

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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:

dimethyl ether

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

WEL, TWA: 766 mg/m<sup>3</sup>; 400 ppm

WEL, STEL: 958 mg/m<sup>3</sup>; 500 ppm

Acetone

Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1

WEL, TWA: 1210 mg/m<sup>3</sup>; 500 ppm

WEL, STEL: 3620 mg/m<sup>3</sup>; 1500 ppm

2-methoxy-1-methylethyl acetate

Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

WEL, TWA: 274 mg/m<sup>3</sup>; 50 ppm

WEL, STEL: 548 mg/m<sup>3</sup>; 100 ppm

Remark: (may be absorbed through the skin)

Ethyl acetate

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

WEL, TWA: 734 mg/m<sup>3</sup>; 200 ppm

WEL, STEL: 1468 mg/m<sup>3</sup>; 400 ppm

#### Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

#### DNEL:

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/m<sup>3</sup>

DNEL acute inhalative (systemic), Workers: 1468 mg/m<sup>3</sup>

DNEL long-term inhalative (local), Workers: 734 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 734 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 4,5 mg/kg

DNEL long-term dermal (systemic), Consumer: 37 mg/kg bw/day

DNEL acute inhalative (local), Consumer: 734 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Consumer: 734 mg/m<sup>3</sup>

DNEL long-term inhalative (local), Consumer: 367 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Consumer: 367 mg/m<sup>3</sup>

Acetone

Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1

DNEL long-term dermal (systemic), Workers: 186 mg/kg bw/day

DNEL acute inhalative (local), Workers: 2420 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 1210 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 62 mg/kg bw/day

DNEL long-term dermal (systemic), Consumer: 62 mg/kg bw/day

DNEL long-term inhalative (systemic), Consumer: 200 mg/m<sup>3</sup>

n-butyl acetate

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

DNEL short-term oral (acute), Workers:

DNEL long-term inhalative (systemic), Workers: 480 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Consumer: 102,34 mg/m<sup>3</sup>

2-methoxy-1-methylethyl acetate

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Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

DNEL long-term oral (repeated), Workers: 1,67 mg/kg  
DNEL long-term dermal (systemic), Workers: 54,8 mg/kg  
DNEL long-term inhalative (systemic), Workers: 33 mg/m<sup>3</sup>

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/m<sup>3</sup>

## **PNEC:**

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: 0,115 mg/kg  
PNEC, soil: 0,148 mg/kg  
PNEC sewage treatment plant (STP): 650 mg/L  
PNEC Secondary Poisoning: 200 mg/kg food

Acetone

Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1

PNEC aquatic, freshwater: 10,6 mg/L  
PNEC aquatic, marine water: 1,06 mg/L  
PNEC aquatic, intermittent release: 21 mg/L  
PNEC sediment, freshwater: 30,4 mg/kg  
PNEC sediment, marine water: 3,04 mg/kg  
PNEC, soil: 29,5 mg/kg  
PNEC sewage treatment plant (STP): 100 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 Sediment dry weight  
PNEC sediment, marine water: 0,0981 mg/kg Sediment dry weight  
PNEC, soil: 0,0903 mg/kg Sediment dry weight  
PNEC sewage treatment plant (STP): 35,6 mg/L

2-methoxy-1-methylethyl acetate

Index No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6

PNEC aquatic, freshwater: 0,635 mg/cm<sup>3</sup>  
PNEC aquatic, marine water: 0,0635 mg/cm<sup>3</sup>  
PNEC aquatic, intermittent release: 6,35 mg/cm<sup>3</sup>  
PNEC sediment, freshwater: 3,29 mg/cm<sup>3</sup>  
PNEC sediment, marine water: 0,329 mg/cm<sup>3</sup>  
PNEC, soil: 0,29 mg/m<sup>3</sup>  
PNEC sewage treatment plant (STP): 100 mg/cm<sup>3</sup>

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 aquatic, marine water: 0,016 mg/L  
PNEC aquatic, intermittent release: 1,549 mg/L  
PNEC sediment, freshwater: 0,681 mg/kg  
PNEC sediment, marine water: 0,069 mg/kg  
PNEC, soil: 0,045 mg/kg  
PNEC sewage treatment plant (STP): 160 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**

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## 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

<b>Physical state:</b>	<b>Liquid</b>
<b>Colour:</b>	<b>refer to label</b>
<b>Odour:</b>	<b>characteristic</b>
<b>Odour threshold:</b>	<b>not applicable</b>
<b>Melting point/freezing point:</b>	<b>not applicable</b>
<b>Initial boiling point and boiling range:</b>	<b>-25 °C</b> Source: dimethyl ether
<b>Flammability:</b>	<b>Extremely flammable aerosol.</b>
<b>Lower and upper explosion limit:</b>	
<b>Lower explosion limit:</b>	<b>2.78 Vol-%</b>
<b>Upper explosion limit:</b>	<b>27 Vol-%</b> Source: dimethyl ether
<b>Flash point:</b>	<b>-100 °C</b> Method: DIN 53213
<b>Auto-ignition temperature:</b>	<b>226 °C</b> Source: dimethyl ether
<b>Decomposition temperature:</b>	<b>not applicable</b>
<b>pH at 20 °C:</b>	<b>not applicable</b>
<b>Cinematic viscosity (40°C):</b>	<b>&lt; 80 mm<sup>2</sup>/s</b>
<b>Viscosity at 20 °C:</b>	<b>20 s 4 mm</b> Method: DIN 53211
<b>Solubility(ies):</b>	
<b>Water solubility at 20 °C:</b>	<b>partially soluble</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Vapour pressure at 20 °C:</b>	<b>5333 mbar</b> Source: dimethyl ether
<b>Density and/or relative density:</b>	
<b>Density at 20 °C:</b>	<b>0.82 g/cm<sup>3</sup></b>
<b>Relative vapour density:</b>	<b>not applicable</b>
<b>particle characteristics:</b>	<b>not applicable</b>

### 9.2. Other information

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**Solid content:** 12 weight-%  
**solvent content:**  
**Organic solvents:** 88 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, smoke, nitrogen oxides.

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Ethyl acetate

oral, LD50, Rat: 5620 mg/kg  
dermal, LD50, Rabbit: > 20000 mg/kg  
oral, LD50, Rabbit: 4934  
Method: OECD 401  
inhalative (vapours), LC0, Rat: 29,3 (4 h)  
inhalative (vapours), LCLo, Rat: > 6000 ppm (6 h)  
inhalative (vapours), LD50, Rabbit, male: > 2000 mg/kg

##### Acetone

oral, LD50, Rat: 5800 mg/kg  
Method: OECD 401  
May cause mouth and throat pain, nausea, vomiting, dizziness, headache and unconsciousness.  
dermal, LD50, Rabbit: 7400 mg/kg  
inhalative (vapours), LC50, Rat: 76 mg/L (4 h)  
May cause pain in nose and throat, nausea, dizziness, headache, loss of responsiveness and unconsciousness at high concentrations.

##### n-butyl acetate

oral, LD50, Rat: 10760 mg/kg  
Method: OECD 423  
dermal, LD50, Rabbit: 14112 mg/kg  
Method: OECD 402  
inhalative (dust and mist), LC50, Rat: 23,4 mg/L (4 h)  
Method: OECD 403

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

dermal, LD50, Rabbit: > 2000 mg/kg

##### dimethyl ether

inhalative (Gases), LC50, Rat: 164000 ppmV (4 h)  
Behavior: Ataxia. Behavior: Narcotic behavior: Coma

##### Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

oral, LD50, Rat: > 5000 mg/kg  
Method: OECD 401  
dermal, LD50, Rabbit: > 5000 mg/kg

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Method: OECD 402  
inhalative (dust and mist), LC50, Rat: > 5 mg/L (4 h)  
Method: OECD 403

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

Causes serious eye irritation.

Ethyl acetate

Skin (4 h)

No skin irritation (rabbit). Degreases the skin and makes it dry and rough. Prolonged or repeated skin contact can lead to dermatitis.

eyes

Moderate eye irritation (rabbit).

n-butyl acetate

Skin, Rabbit (4 h)

Method: OECD 404

No skin irritation

eyes

Method: OECD 405

No eye irritation

2-methoxy-1-methylethyl acetate

Skin (4 h)

Method: OECD 404

Not to be classified as skin etching/irritant.

eyes

Not to be classified as severe eye damage or eye irritation.

dimethyl ether

Skin (4 h)

No effects of the product known.

eyes

No effects of the product known.

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

Skin (4 h)

Repeated exposure may cause skin dryness or cracking.

eyes

No data available

**Respiratory or skin sensitisation**

Ethyl acetate

Skin, Guinea pig: ; Evaluation not sensitising.

Method: OECD 406

Maximization test

n-butyl acetate

Skin, Guinea pig: ; Evaluation not sensitising.

Method: OECD 406

Mouse mouse ear swelling test (MEST)

2-methoxy-1-methylethyl acetate

Skin: ; Evaluation not sensitising.

Method: OECD 406

Respiratory system:

No data available

dimethyl ether

Skin:

No effects of the product known.

Respiratory system:

No effects of the product known.

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

Skin:

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

Respiratory system:



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No data available

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

### Ethyl acetate

Germ cell mutagenicity; Evaluation In vitro tests showed no mutagenic effects.  
Carcinogenicity; Evaluation Didn't show any carcinogenic effects in animal tests.  
Reproductive toxicity; Evaluation No reproductive toxicity  
Genotoxicity in vitro; Evaluation negative  
(Chromosome aberration test in vitro; CHO (Chinese hamster ovaries) cells; with and without metabolic activation) (OECD Test Guideline 473).; (Back mutation test on bacteria; Salmonella typhimurium) (OECD test guideline 471).  
Genotoxicity in vivo; Evaluation negative  
Method: OECD 474  
(Chromosome aberration test in vivo; Chinese hamster, male and female) (Oral).

### n-butyl acetate

Germ cell mutagenicity; Evaluation Ames test negative.

### 2-methoxy-1-methylethyl acetate

Germ cell mutagenicity  
No data available  
Carcinogenicity  
No data available  
Reproductive toxicity  
No data available  
Lactation  
No data available

### dimethyl ether

Germ cell mutagenicity  
No effects of the product known.  
Carcinogenicity  
No effects of the product known.  
Reproductive toxicity  
No effects of the product known.  
Lactation  
No effects of the product known.

### Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

Germ cell mutagenicity  
No data available  
Carcinogenicity  
No data available  
Reproductive toxicity  
No data available  
Lactation  
No data available

## STOT-single exposure; STOT-repeated exposure

May cause drowsiness or dizziness.

### Ethyl acetate

Specific target organ toxicity (single exposure)  
Inhalation; central nervous system; May cause drowsiness or dizziness.  
Specific target organ toxicity (repeated exposure)  
No data available  
Repeated dose toxicity: 900 mg/kg  
Method NOAEL  
Repeated dose toxicity, Rat: 3600 mg/kg (92 d)  
Method LOAEL  
oral  
Repeated dose toxicity, Rat: 350 ppm (94 d)  
Method NOEC  
inhalative (vapours); 5 days/week  
Repeated dose toxicity, Rat: 350 ppm (94 d)  
Method LOEC:  
inhalative (vapours); 5 days/week

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

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## n-butyl acetate

Specific target organ toxicity (single exposure)  
central nervous system; May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)  
human; Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).; Steam in high concentration leads to unconsciousness.

## 2-methoxy-1-methylethyl acetate

Specific target organ toxicity (single exposure)

No data available

Specific target organ toxicity (repeated exposure)

No data available

## dimethyl ether

Specific target organ toxicity (single exposure)

No effects of the product known.

Specific target organ toxicity (repeated exposure)

No effects of the product known.

## Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.; After absorption: cardiovascular disorders, cyanosis, agitation After absorption of large quantities: Drowsiness, CNS disorders Other dangerous properties cannot be excluded.

Specific target organ toxicity (repeated exposure)

No data available

## Aspiration hazard

### Ethyl acetate

Aspiration hazard

no classification

### n-butyl acetate

Aspiration hazard; Evaluation No classification for aspiration toxicity

### 2-methoxy-1-methylethyl acetate

Aspiration hazard

Not to be classified as aspirational.

### dimethyl ether

Aspiration hazard

not applicable

## Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

Aspiration hazard

Aspiration can lead to pulmonary edema and pneumonia.; May be fatal if swallowed and enters airways.

## 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.

## 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

### Ethyl acetate

Fish toxicity, LC50, Pimephales promelas (fathead minnow): 230 mg/L (96 h)





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#### Soil-Water:

Due to its high volatility, the product is unlikely to cause soil or water contamination. ; Distribution in the soil is unlikely.

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics

#### soil:

No data 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. 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

160504\* Gases in pressure containers (including halons) containing hazardous 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 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

#### 14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

### SECTION 15: Regulatory information

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## 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): 725

### 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
204-658-1 123-86-4	n-butyl acetate	01-2119485493-29
200-662-2 67-64-1	Acetone	01-2119471330-49
203-603-9 108-65-6	2-methoxy-1-methylethyl acetate	01-2119475791-29
919-857-5	Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic compounds, <2% aromatics	01-2119463258-33
205-500-4 141-78-6	Ethyl acetate	01-2119475103-46

## SECTION 16: Other information

### Full text of classification in section 3

Flam. Gas 1 / H220	flammable gases	Extremely flammable gas.
Press. Gas	Gases under pressure	
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.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.

### 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
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

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	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.