

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

348000  
Version 1.0

Effect Lacquer  
Revision date 2 Oct 2025



Print date 2 Oct 2025

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

**1.1 Product identifier**

**Trade name/designation**

348000 Effect Lacquer  
Fine Pearl Texture  
UFI: MYUA-9VA6-E209-R05D

**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**

Heinrich König GmbH & Co.KG  
An der Rosenhelle 5 Telephone: +49610153600  
61138 Niederdorfelden Telefax: +496101536011  
Germany E-mail: info@heinrich-koenig.de  
Website: www.heinrich-koenig.de

**Department responsible for information**

E-mail (competent person): SDB@heinrich-koenig.de  
Telephone: Telephone: +496101536071

**1.4 Emergency telephone number**

Emergency CONTACT (24-Hour-Number): GBK GmbH  
+496132-84463

**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 Extremely flammable aerosol.  
Aerosol 1 H229 Pressurised container: May burst if heated.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
STOT SE 3 Narcotic effects H336 May cause drowsiness or dizziness.  
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

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

**Hazard pictograms**



GHS02 GHS07

**Signal word**

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.  
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.

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P251 Do not pierce or burn, even after use.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
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**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.  
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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

**3.2 Mixtures**

**Description**

Aerosol

**Hazardous ingredients**

CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	% [mass]
115-10-6 204-065-8 603-019-00-8	<b>dimethyl ether</b> 01-2119472128-37-xxxx Flam. Gas 1 H220 / Liquef. Gas H280 ATE (inhalative): > 20,000 ppmV (4 h) Substance with a common (EC) occupational exposure limit value.	35,0 < 50,0
123-86-4 204-658-1 607-025-00-1	<b>n-butyl acetate</b> 01-2119485493-29-xxxx Flam. Liq. 3 H226 / STOT SE 3 H336 / EUH066 ATE (oral): = 10,760 mg/kg ATE (dermal): > 14,112 mg/kg ATE (inhalative): = 23.4 mg/L (4 h)	20,0 < 25,0
78-93-3 201-159-0 606-002-00-3	<b>butanone</b> 01-2119457290-43-xxxx Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066 ATE (oral): > 2,193 mg/kg ATE (dermal): > 5,000 mg/kg ATE (inhalative): = 34 mg/L (4 h)	10,0 < 12,5
64742-95-6 918-668-5 649-356-00-4	<b>Solvent naphtha (petroleum), light arom.</b> 01-2119455851-35-xxxx Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H335 / STOT SE 3 H336 / Aquatic Chronic 2 H411 ATE (dermal): > 3,160 mg/kg ATE (oral): = 3,592 mg/kg	5,00 < 7,00
141-78-6 205-500-4 607-022-00-5	<b>Ethyl acetate</b> 01-2119475103-46-xxxx Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066 ATE (oral): = 4,934 mg/kg ATE (dermal): > 20,000 mg/kg ATE (inhalative): = 29.3 mg/L (4 h)	5,00 < 7,00

**Remark**

Full text of H- and EUH-statements: 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. If unconscious but breathing normally, place in recovery position and seek medical advice.

**Following inhalation**

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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**

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners. Wash contaminated clothing before reuse.

**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.

**Self-protection of the first aider**

First aider: Pay attention to self-protection!

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

**Symptoms**

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 (CO<sub>2</sub>), 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.

**Hazardous combustion products**

Hazardous combustion products: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, smoke, Nitrogen oxides (NO<sub>x</sub>).

**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**

Remove all 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**

**For containment**

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).

**For cleaning up**

Clean using cleansing agents. Do not use solvents.

**6.4 Reference to other sections**

Safe handling: see section 7

Personal protection equipment: refer to section 8

Disposal: see section 13

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

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**Advices on safe handling**

Avoid contact with skin, eyes and clothes. Avoid respiration of swarf. Personal protection equipment: see 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.

**Advices on general occupational hygiene**

When using do not eat, drink or smoke.

**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.

**Storage class** LGK2B - Aerosol dispensers and lighters

**Further information on storage conditions**

Keep container tightly closed. 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**

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
141-78-6	Ethyl acetate	WEL	734 / 1,468 ( - ) mg/m <sup>3</sup>
64742-95-6	Solvent naphtha (petroleum), light arom.	WEL	500 / - ( - ) mg/m <sup>3</sup> (hydrocarbons, aromatic)
78-93-3	butanone	WEL	600 / 899 ( - ) mg/m <sup>3</sup>
115-10-6	dimethyl ether	WEL	766 / 958 ( - ) mg/m <sup>3</sup>

**Additional information**

Long-term: Long-term occupational exposure limit value

short-term: short-term occupational exposure limit value

**Biological limit values**

CAS No.	Substance name	Source	Value/ Test material
78-93-3	butanone	BMGV	70 µmol/L / urine end of exposure or end of shift

**DNEL worker**

CAS No.	Substance name	DNEL type	DNEL value
141-78-6	Ethyl acetate	DNEL long-term inhalative (local)	734 mg/m <sup>3</sup>
141-78-6	Ethyl acetate	DNEL long-term inhalative (systemic)	734 mg/m <sup>3</sup>
141-78-6	Ethyl acetate	DNEL acute inhalative (local)	1,468 mg/m <sup>3</sup>
141-78-6	Ethyl acetate	DNEL acute inhalative (systemic)	1,468 mg/m <sup>3</sup>
141-78-6	Ethyl acetate	DNEL long-term dermal (systemic)	63 mg/kg
64742-95-6	Solvent naphtha (petroleum), light arom.	DNEL long-term inhalative (systemic)	150 mg/m <sup>3</sup>
64742-95-6	Solvent naphtha (petroleum), light arom.	DNEL long-term dermal (systemic)	25 mg/kg
78-93-3	butanone	DNEL long-term inhalative	600 mg/m <sup>3</sup>

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		(systemic)	
78-93-3	butanone	DNEL long-term dermal (systemic)	1,161 mg/kg
115-10-6	dimethyl ether	DNEL long-term inhalative (systemic)	1,894 mg/m <sup>3</sup>
123-86-4	n-butyl acetate	DNEL long-term inhalative (local)	300 mg/m <sup>3</sup>
123-86-4	n-butyl acetate	DNEL long-term inhalative (systemic)	48 mg/m <sup>3</sup>
123-86-4	n-butyl acetate	DNEL acute inhalative (systemic)	600 mg/m <sup>3</sup>
123-86-4	n-butyl acetate	DNEL acute inhalative (local)	600 mg/m <sup>3</sup>
123-86-4	n-butyl acetate	DNEL long-term dermal (systemic)	7 mg/kg
123-86-4	n-butyl acetate	DNEL acute dermal, short-term (systemic)	11 mg/kg

**DNEL Consumer**

CAS No.	Substance name	DNEL type	DNEL value
141-78-6	Ethyl acetate	DNEL long-term inhalative (local)	367 mg/m <sup>3</sup>
141-78-6	Ethyl acetate	DNEL long-term inhalative (systemic)	367 mg/m <sup>3</sup>
141-78-6	Ethyl acetate	DNEL acute inhalative (local)	734 mg/m <sup>3</sup>
141-78-6	Ethyl acetate	DNEL acute inhalative (systemic)	734 mg/m <sup>3</sup>
141-78-6	Ethyl acetate	DNEL long-term dermal (systemic)	37 mg/kg
141-78-6	Ethyl acetate	DNEL long-term oral (repeated)	4.5 mg/kg
64742-95-6	Solvent naphtha (petroleum), light arom.	DNEL long-term inhalative (systemic)	32 mg/m <sup>3</sup>
64742-95-6	Solvent naphtha (petroleum), light arom.	DNEL long-term dermal (systemic)	11 mg/kg
64742-95-6	Solvent naphtha (petroleum), light arom.	DNEL long-term oral (repeated)	11 mg/kg
78-93-3	butanone	DNEL long-term inhalative (systemic)	106 mg/m <sup>3</sup>
78-93-3	butanone	DNEL acute dermal, short-term (local)	412 mg/kg
78-93-3	butanone	DNEL long-term dermal (systemic)	206 mg/kg
78-93-3	butanone	DNEL long-term oral (repeated)	31 mg/kg
115-10-6	dimethyl ether	DNEL long-term inhalative (systemic)	471 mg/m <sup>3</sup>
123-86-4	n-butyl acetate	DNEL long-term inhalative (local)	35.7 mg/m <sup>3</sup>
123-86-4	n-butyl acetate	DNEL long-term inhalative (systemic)	12 mg/m <sup>3</sup>
123-86-4	n-butyl acetate	DNEL acute inhalative (systemic)	300 mg/m <sup>3</sup>
123-86-4	n-butyl acetate	DNEL acute inhalative (local)	300 mg/m <sup>3</sup>
123-86-4	n-butyl acetate	DNEL short-term oral (acute)	2 mg/kg
123-86-4	n-butyl acetate	DNEL long-term dermal (systemic)	3.4 mg/kg
123-86-4	n-butyl acetate	DNEL acute dermal, short-term (systemic)	6 mg/kg
123-86-4	n-butyl acetate	DNEL long-term oral (repeated)	2 mg/kg

**PNEC**

CAS No.	Substance name	PNEC type	PNEC Value
141-78-6	Ethyl acetate	PNEC sediment, freshwater	1.15 mg/kg
141-78-6	Ethyl acetate	PNEC aquatic, marine water	0.024 mg/L
141-78-6	Ethyl acetate	PNEC aquatic, intermittent	1.65 mg/L

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		release	
141-78-6	Ethyl acetate	PNEC aquatic, freshwater	0.24 mg/L
141-78-6	Ethyl acetate	PNEC sediment, marine water	0.034 mg/kg
141-78-6	Ethyl acetate	PNEC soil, freshwater	0.148 mg/kg
141-78-6	Ethyl acetate	PNEC Secondary Poisoning	200 mg/kg
141-78-6	Ethyl acetate	PNEC sewage treatment plant (STP)	650 mg/L
78-93-3	butanone	PNEC sediment, freshwater	284.7 mg/kg
78-93-3	butanone	PNEC aquatic, marine water	55.8 mg/L
78-93-3	butanone	PNEC aquatic, freshwater	55.8 mg/L
78-93-3	butanone	PNEC sediment, marine water	284.7 mg/kg
78-93-3	butanone	PNEC soil, freshwater	22.5 mg/kg
78-93-3	butanone	PNEC aquatic, intermittent release	55.8 mg/L
78-93-3	butanone	PNEC sewage treatment plant (STP)	709 mg/L
115-10-6	dimethyl ether	PNEC sediment, freshwater	0.681 mg/kg
115-10-6	dimethyl ether	PNEC soil, freshwater	0.045 mg/kg
115-10-6	dimethyl ether	PNEC aquatic, freshwater	0.155 mg/L
115-10-6	dimethyl ether	PNEC sewage treatment plant (STP)	160 mg/L
123-86-4	n-butyl acetate	PNEC sediment, freshwater	0.981 mg/kg
123-86-4	n-butyl acetate	PNEC aquatic, marine water	0.018 mg/L
123-86-4	n-butyl acetate	PNEC aquatic, intermittent release	0.36 mg/L
123-86-4	n-butyl acetate	PNEC aquatic, freshwater	0.18 mg/L
123-86-4	n-butyl acetate	PNEC sediment, marine water	0.098 mg/kg
123-86-4	n-butyl acetate	PNEC soil, freshwater	0.09 mg/kg
123-86-4	n-butyl acetate	PNEC sewage treatment plant (STP)	35.6 mg/L

## 8.2 Exposure controls

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

### Personal protection equipment

#### Respiratory protection

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

#### Hand protection

Suitable material: NBR (Nitrile rubber)  
Thickness of the glove material  $\geq 0.4$  mm  
Breakthrough time  $\geq 480$  min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. 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

#### Skin protection

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

#### Eye/face protection

Eye glasses with side protection: EN 166

#### Body protection

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Anti-static clothing including shoes are recommended.

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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	colourless
Odour	typical
pH at 20 °C	not applicable
Melting point/freezing point	not determined
Initial boiling point and boiling range	-24 °C
Flash point	-41 °C
flammability	Extremely flammable aerosol.
Lower explosion limit at 20°C	1 Vol-% Source: Solvent naphtha (petroleum), light arom.
Upper explosion limit at 20°C	26.2 Vol-% Source: dimethyl ether
Vapour pressure at 20°C	4,255.539 mbar
Relative vapour density	not applicable
Density at 20 °C	0.8 kg/l
Water solubility at 20°C	practically insoluble
Partition coefficient: n-octanol/water	see section 12
Auto-ignition temperature	350 °C Source: dimethyl ether
Decomposition temperature	not determined
Viscosity at 20 °C	7 mm²/s
particle characteristics	not applicable

**9.2 Other information**

solvent content	86.4 %
Water content:	0 %

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No specific test data related to reactivity available for this product or its ingredients.

**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**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

**10.5 Incompatible materials**

No further relevant information available.

**10.6 Hazardous decomposition products**

Decomposition products in case of fire: see section 5.

**SECTION 11: Toxicological information**



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

**Acute toxicity**

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

**Ethyl acetate**

LD50: oral (Rat): = 4,934 mg/kg; (OECD 401)

LD50: dermal (Rabbit): > 20,000 mg/kg

LC50: inhalative (Rat): = 29.3 mg/L (4 h)

**Solvent naphtha (petroleum), light arom.**

LD50: dermal (Rabbit): > 3,160 mg/kg; (OECD 402)

LD50: oral (Rat): = 3,592 mg/kg; (OECD 401)

**butanone**

LD50: oral (Rat): > 2,193 mg/kg; (OECD 423)

LD50: dermal (Rabbit): > 5,000 mg/kg; (OECD 402)

LC50: inhalative (Rat): = 34 mg/L (4 h)

**dimethyl ether**

LC50: inhalative (Rat): > 20,000 ppmV (4 h)

**n-butyl acetate**

LD50: oral (Rat): = 10,760 mg/kg; (OECD 423)

LD50: dermal (Rabbit): > 14,112 mg/kg; (OECD 402)

LC50: inhalative (Rat): = 23.4 mg/L (4 h); (OECD 403)

**Skin corrosion/irritation**

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

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

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

**Overall assessment on CMR properties**

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

**STOT-single exposure**

May cause drowsiness or dizziness.

**STOT-repeated exposure**

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

**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, Dizziness, 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.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**SECTION 12: Ecological information**

**12.1 Toxicity**

Harmful to aquatic life with long lasting effects.

**butanone**

EC0 (Pseudomonas putida): = 1,150 mg/L (16 h)



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**Algae toxicity**

**Ethyl acetate**

ErC50: (Desmodesmus subspicatus): = 5,600 mg/L (48 h)

NOEC > 100 mg/L (72 h)

**butanone**

ErC50: (Pseudokirchneriella subcapitata): = 1,972 mg/L (72 h)

Method: OECD 201

**n-butyl acetate**

EC50 = 397 mg/L (72 h)

Method: OECD 201

**Daphnia toxicity**

**Ethyl acetate**

EC50 (Daphnia magna (Big water flea)): = 610 mg/L (48 h)

NOEC (Daphnia magna (Big water flea)): = 2.4 mg/L (21 d)

Method: OECD 211

**Solvent naphtha (petroleum), light arom.**

EC50 (Daphnia magna (Big water flea)): = 3.2 mg/L (48 h)

Method: OECD 202

**butanone**

EC50 (Daphnia magna (Big water flea)): = 308 mg/L (48 h)

Method: OECD 202

**n-butyl acetate**

EC50 (Daphnia magna (Big water flea)): = 44 mg/L (48 h)

Method: OECD 202

**Fish toxicity**

**Ethyl acetate**

LC50: (Pimephales promelas (fathead minnow)): = 230 mg/L (96 h)

NOEC (Pimephales promelas (fathead minnow)): > 9.65 mg/L (32 d)

**Solvent naphtha (petroleum), light arom.**

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 9.2 mg/L (96 h)

**butanone**

LC50: (Pimephales promelas (fathead minnow)): = 2,990 mg/L (96 h)

Method: OECD 203

**n-butyl acetate**

LC50: (Pimephales promelas (fathead minnow)): = 18 mg/L (96 h)

Method: OECD 203

**12.2 Persistence and degradability**

**Ethyl acetate**

Biodegradation = 79 %

**butanone**

Biodegradation = 98 % (28 d )

**n-butyl acetate**

Biodegradation = 83 % (28 d )

**12.3 Bioaccumulative potential**

**Ethyl acetate**

Partition coefficient: n-octanol/water = 0.68

**butanone**

Partition coefficient: n-octanol/water = 0.3

**dimethyl ether**

Partition coefficient: n-octanol/water = 0.7

**n-butyl acetate**

Partition coefficient: n-octanol/water = 2.3

Method: OECD 117

**12.4 Mobility in soil**

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No information 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**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7 Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Product/Packaging disposal**

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**Waste codes/waste designations according to EWC/AVV**

150110\* - packaging containing residues of or contaminated by dangerous substances

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

**Other disposal recommendations**

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, flammable

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

Aerosols, flammable

**14.3 Transport hazard class(es)**

Land transport (ADR/RID) 2.1

Sea transport (IMDG) 2.1

Air transport (ICAO-TI / IATA-DGR) 2.1

**14.4 Packing group**

not applicable

**14.5 Environmental hazards**

Land transport (ADR/RID) not applicable

Sea transport (IMDG) 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

**14.7 Maritime transport in bulk according to IMO instruments**

No transport as bulk according to IBC Code.

**14.8 Additional information**

**Land transport (ADR/RID)**

Tunnel restriction code: D

Limited quantity (LQ): 1 ltr

Hazard identification number (Kemler No.): 23

**Sea transport (IMDG)**

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

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EmS-No.: F-D, S-U  
Limited quantity (LQ): 1 ltr

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

Limited quantity (LQ): 30 Kilogramm

**SECTION 15: Regulatory information**

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

**EU legislation**

**Authorisations and/or restrictions on use**

**Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)**

Use restriction according to REACH annex XVII, no.: 03, 40

**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.

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

VOC value: 680 g/l

**Regulation (EU) No. 528/2012 on biocides**

biocide, active substance: Ethanol

biocide, active substance: 2-methylpropan-1-ol

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**

**Hazard categories / Named dangerous substances**

P3a FLAMMABLE AEROSOLS

Quantity 1: 150t; Quantity 2: 500t

**National regulations**

Observe in addition any national regulations!

**Water hazard class**

**15.2 Chemical Safety Assessment**

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

REACH No.	Substance name	CAS No. EC No.
01-2119475103-46-xxxx	Ethyl acetate	141-78-6 205-500-4
01-2119455851-35-xxxx	Solvent naphtha (petroleum), light arom.	64742-95-6 918-668-5
01-2119457290-43-xxxx	butanone	78-93-3 201-159-0
01-2119472128-37-xxxx	dimethyl ether	115-10-6 204-065-8
01-2119485493-29-xxxx	n-butyl acetate	123-86-4 204-658-1

**SECTION 16: Other information**

**List of relevant hazard statements and/or precautionary statements from sections 2 to 15**

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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

Aerosol 1	On basis of test data.
Aerosol 1	On basis of test data.
Eye Irrit. 2	Calculation method.
STOT SE 3 Narcotic effects	Calculation method.
Aquatic Chronic 3	Calculation method.

**Key literature references and sources for data**

Data arise from reference works and literature.

**Abbreviations and acronyms**

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

OEL: Occupational Exposure Limit Value

BLV: Biological limit values

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

EU/EEA: European Economic Area

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

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

UN: United Nations

VOC: Volatile Organic Compounds

vPvB: very persistent and very bioaccumulative

**Indication of changes**

\* Data changed compared with the previous version.