

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 17.11.2025

Version number 16 (replaces version 15)

Revision: 17.11.2025

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

1.1 Product identifier

Trade name: **Fade Out Thinner**

Article number: 87880

UFI: 4G52-0093-2009-SYGU

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

No further relevant information available.

Application of the substance / the mixture

Thinner, Diluent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS02 GHS05 GHS07

Signal word

Danger

Hazard-determining components of labelling:

cyclohexanone
2-methoxy-1-methylethyl acetate
n-butyl acetate
ethyl acetate

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H318 Causes serious eye damage.

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.

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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.
P260	Do not breathe spray.
P280	Wear protective gloves / eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
	Buildup of explosive mixtures possible without sufficient ventilation.

· Additional information:

2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT:

Not applicable.

· vPvB:

Not applicable.

· Determination of endocrine-disrupting properties

For information on endocrine disrupting properties see section 11.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

· Description:

Mixture: consisting of the following components.

· Dangerous components:

CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37	dimethyl ether Flam. Gas 1A, H220 Press. Gas (Comp.), H280	50-100%
CAS: 108-94-1 EINECS: 203-631-1 Index number: 606-010-00-7 Reg.nr.: 01-2119453616-35	cyclohexanone Flam. Liq. 3, H226 Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	<10%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	<10%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	<10%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46	ethyl acetate Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	<10%
EC number: 905-588-0 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32 01-2119486136-34	reaction mass of ethylbenzole and xylene Flam. Liq. 3, H226 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Aquatic Chronic 3, H412	<10%

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CAS: 123-92-2	isopentyl acetate	1-5%
EINECS: 204-662-3	Flam. Liq. 3, H226	
Index number: 607-130-00-2	EUH066	

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

- General information: Take affected persons out into the fresh air. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Rinse out mouth and then drink plenty of water. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Breathing difficulty
Dizziness
Headache
Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing agents:

Water with full jet

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced. Can form explosive gas-air mixtures.

5.3 Advice for firefighters

- Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit. Mount respiratory protective device.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away. Mount respiratory protective device.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.

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· **6.3 Methods and material for containment and cleaning up:**

Do not allow to enter sewers/ surface or ground water.

Use neutralising agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Keep away from heat and direct sunlight.

· **Information about fire - and explosion protection:**

Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.

· **Information about storage in one common storage facility:**

VCI-Konzept für die Zusammenlagerung von Chemikalien beachten.
Store away from foodstuffs.

· **Further information about storage conditions:**

Protect from frost.
Keep container tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

· **Storage class:**

2 B

· **7.3 Specific end use(s)**

No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

115-10-6 dimethyl ether

IOELV Long-term value: 1920 mg/m³, 1000 ppm

108-94-1 cyclohexanone

IOELV Short-term value: 81.6 mg/m³, 20 ppm
Long-term value: 40.8 mg/m³, 10 ppm
Skin

108-65-6 2-methoxy-1-methylethyl acetate

IOELV Short-term value: 550 mg/m³, 100 ppm
Long-term value: 275 mg/m³, 50 ppm
Skin

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123-86-4 n-butyl acetate

IOELV	Short-term value: 723 mg/m ³ , 150 ppm Long-term value: 241 mg/m ³ , 50 ppm
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141-78-6 ethyl acetate

IOELV	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm
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reaction mass of ethylbenzole and xylene

AGW	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm H
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123-92-2 isopentyl acetate

IOELV	Short-term value: 540 mg/m ³ , 100 ppm Long-term value: 270 mg/m ³ , 50 ppm
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· DNELs**115-10-6 dimethyl ether**

Inhalative	DNEL (Langzeit-wiederholt)	1,894 mg/m ³ Air (ARB) 471 mg/m ³ Air (BEV)
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108-65-6 2-methoxy-1-methylethyl acetate

Oral	DNEL (Kurzzeit-akut)	500 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	1.67 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	796 mg/kg bw/day (ARB) 54.8 mg/kg bw/day (BEV)
	DNEL (Kurzzeit-akut)	550 mg/m ³ Air (ARB) 33 mg/m ³ Air (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	275 mg/m ³ Air (ARB) 33 mg/m ³ Air (BEV)

123-86-4 n-butyl acetate

Oral	DNEL (Kurzzeit-akut)	2 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	2 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	11 mg/kg bw/day (ARB) 6 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	11 mg/kg bw/day (ARB) 6 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	600 mg/m ³ Air (ARB) 300 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	300 mg/m ³ Air (ARB) 35.7 mg/m ³ Air (BEV)

141-78-6 ethyl acetate

Oral	DNEL (Langzeit-wiederholt)	4.5 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	63 mg/kg bw/day (ARB) 37 mg/kg bw/day (BEV)
	DNEL (Kurzzeit-akut)	1,468 mg/m ³ Air (ARB) 734 mg/m ³ Air (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	734 mg/m ³ Air (ARB) 367 mg/m ³ Air (BEV)

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reaction mass of ethylbenzole and xylene

Oral	DNEL (Langzeit-wiederholt)	1.6 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	180 mg/kg bw/day (ARB)
		108 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	289 mg/m ³ Air (ARB)
		174 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	77-221 mg/m ³ Air (ARB)
		14.8-174 mg/m ³ Air (BEV)

· PNECs

115-10-6 dimethyl ether

PNEC (wässrig)	160 mg/l (KA)
	0.016 mg/l (MW)
	0.155 mg/l (SW)
PNEC (fest)	0.045 mg/kg Trockengew (BO)
	0.0681 mg/kg Trockengew (MWS)
	0.681 mg/kg Trockengew (SWS)

108-65-6 2-methoxy-1-methylethyl acetate

PNEC (wässrig)	100 mg/l (KA)
	0.0635 mg/l (MW)
	0.635 mg/l (SW)
PNEC (fest)	6.35 mg/l (WAS)
	0.29 mg/kg Trockengew (BO)
	0.329 mg/kg Trockengew (MWS)
	3.29 mg/kg Trockengew (SWS)

123-86-4 n-butyl acetate

PNEC (wässrig)	35.6 mg/l (KA)
	0.018 mg/l (MW)
	0.18 mg/l (SW)
PNEC (fest)	0.36 mg/l (WAS)
	0.0903 mg/kg Trockengew (BO)
	0.0981 mg/kg Trockengew (MWS)
	0.981 mg/kg Trockengew (SWS)

141-78-6 ethyl acetate

PNEC (wässrig)	650 mg/l (KA)
	0.024 mg/l (MW)
	0.24 mg/l (SW)
PNEC (fest)	1.65 mg/l (WAS)
	0.148 mg/kg Trockengew (BO)
	0.115 mg/kg Trockengew (MWS)
	1.15 mg/kg Trockengew (SWS)

reaction mass of ethylbenzole and xylene

PNEC (wässrig)	1.6 mg/l (KA)
	0.004 mg/l (MW)
	0.044 mg/l (SW)
	0.01 mg/l (WAS)

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PNEC (fest)	0.852 mg/kg Trockengew (BO)
	0.252 mg/kg Trockengew (MWS)
	2.52 mg/kg Trockengew (SWS)

- Additional information: The lists valid during the making were used as basis.
 - **8.2 Exposure controls**
 - Appropriate engineering controls No further data; see section 7.
 - Individual protection measures, such as personal protective equipment
 - General protective and hygienic measures:
 - Keep away from foodstuffs, beverages and feed.
 - Wash hands before breaks and at the end of work.
 - Do not inhale gases / fumes / aerosols.
 - Immediately remove all soiled and contaminated clothing
 - Avoid contact with the eyes and skin.
 - Respiratory protection:
 - Short term filter device:
 - Filter A/P2
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
 - Hand protection
 - The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.
 - This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).
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Protective gloves

 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
 - Penetration time of glove material
 - The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BR
 - As protection from splashes gloves made of the following materials are suitable:
 - Butoject (KCL, Art_No. 897, 898)
 - Butyl rubber, BR
 - Not suitable are gloves made of the following materials:
 - Nitrile rubber, NBR

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· Eye/face protection

Tightly sealed goggles

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· General Information

· <u>Colour:</u>	Colourless
· <u>Odour:</u>	Specific type
· <u>Odour threshold:</u>	Not determined.
· <u>Melting point/freezing point:</u>	Undetermined.
· <u>Boiling point or initial boiling point and boiling range</u>	Not applicable, as aerosol.
· <u>Flammability</u>	Not applicable.
· <u>Lower and upper explosion limit</u>	
· <u>Lower:</u>	3.3 Vol %
· <u>Upper:</u>	26.2 Vol %
· <u>Flash point:</u>	Not applicable, as aerosol.
· <u>Auto-ignition temperature:</u>	240 °C
· <u>Decomposition temperature:</u>	Not determined.
· <u>pH</u>	Not determined.
· <u>Viscosity:</u>	
· <u>Kinematic viscosity</u>	Not determined.
· <u>Dynamic:</u>	Not determined.
· <u>Solubility</u>	
· <u>water:</u>	Not miscible or difficult to mix.
· <u>Partition coefficient n-octanol/water (log value)</u>	Not determined.
· <u>Vapour pressure at 20 °C:</u>	4,000 hPa
· <u>Density and/or relative density</u>	
· <u>Density at 20 °C:</u>	0.7 g/cm ³
· <u>Relative density</u>	Not determined.
· <u>Vapour density</u>	Not determined.

· **9.2 Other information**

· <u>Appearance:</u>	
· <u>Form:</u>	Aerosol
· <u>Important information on protection of health and environment, and on safety.</u>	
· <u>Ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <u>Solvent content:</u>	
· <u>Organic solvents:</u>	99.6 %
· <u>Solids content:</u>	0.0 %
· <u>Change in condition</u>	
· <u>Evaporation rate</u>	Not applicable.

· Information with regard to physical hazard classes

· <u>Explosives</u>	Void
· <u>Flammable gases</u>	Void
· <u>Aerosols</u>	Extremely flammable aerosol. Pressurised container: May burst if heated.
· <u>Oxidising gases</u>	Void
· <u>Gases under pressure</u>	Void
· <u>Flammable liquids</u>	Void
· <u>Flammable solids</u>	Void

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· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Heat, flames and other sources of ignition
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide

SECTION 11: Toxicological information

- **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.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	8,274 mg/kg
Dermal	LD50	2,989 mg/kg
Inhalative	LC50/4 h	24.2 mg/l (rat)

115-10-6 dimethyl ether

Inhalative	LC50/4h	164,000 mg/m ³ (rat)
	LC50/4 h	164 mg/l (rat)
	LC50/48h	>4,000 mg/l (daphnia magna)

108-94-1 cyclohexanone

Oral	LD50	1,890 mg/kg (rat)
Dermal	LD50	1,100 mg/kg (rabbit)
Inhalative	LC50/4h	>6,200 mg/m ³ (rat)
	LC50/4 h	8 mg/l (rat)
	LC50/48h	536-572 mg/l (piscis)

108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8,500 mg/kg (rat) (OECD 401)
	NOAEL-Werte	1,500 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)
		>2,000 mg/kg (rat)

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Inhalative	LC50/4h	>10,000 mg/m ³ (rat)
	LC50	>23.8 mg/l (rat)
	LC50/4 h	35.7 mg/l (rat)
	LC50/48h	100 mg/l (Desmodesmus subspicatus)

123-86-4 n-butyl acetate

Oral	LD50	10,760 mg/kg (rat) (OECD 423)
Dermal	LD50	14,112 mg/kg (rat) (OECD 402)
Inhalative	LC50/4 h	>21 mg/l (rat) (OECD 403)
	LC50	390 mg/m ³ (rat)
	LC50/48h	64 mg/l (Brachydanio rerio)

141-78-6 ethyl acetate

Oral	LD50	4,100 mg/kg (mouse)
		5,620 mg/kg (rat)
		4,934 mg/kg (rabbit) (OECD 401)
Dermal	NOAEL-Werte	900 mg/kg (rat)
		>18,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	58 mg/l (rat)
	LC50/4 h	56 mg/l (rat)
	LC50/1h	200 mg/l (rat)
	LC50/8h	5.86 mg/l (rat)
	LC50/48h	333 mg/l (Leuciscus idus)

reaction mass of ethylbenzole and xylene

Oral	LD50	3,523 mg/kg (rat)
	NOAEL-Werte	250 mg/kg (rat)
Dermal	LD50	12,126 mg/kg (rabbit)
	ATE mix	1,100 mg/kg (rabbit)
Inhalative	LC50/4h	29,000 mg/m ³ (rat)
	LC50/4 h	11 mg/l (rat)

123-92-2 isopentyl acetate

Dermal	LD50	>5,000 mg/kg (rabbit) (ChemIDPLUS)
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- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity 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.

11.2 Information on other hazards

- Endocrine disrupting properties

None of the ingredients is listed.

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SECTION 12: Ecological information**· 12.1 Toxicity****· Aquatic toxicity:****115-10-6 dimethyl ether**

EC50/96h	154.9 mg/l (algae) >4,000 mg/l (poecilia reticulata) 154.917 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	>4,000 mg/l (daphnia magna)
LC50/96h	>4,000 mg/l (poecilia reticulata)

108-94-1 cyclohexanone

EC50/48h	820 mg/l (daphnia magna)
EC50/72u	32.9 mg/l (algae)
LC50/96h	527 mg/l (piscis)

108-65-6 2-methoxy-1-methylethyl acetate

EC50	>500 mg/l (daphnia magna)
LC50	>100 mg/l (Oryzias latipes)
EC50/48h	>500 mg/l (daphnia magna) (RL 67/548/EWG. Anhang V, C.2.)
ErC50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC20/0.5h	>1,000 mg/l (BES) (OECD 209)
NOEC	47.5 mg/l (Oryzias latipes)
NOEC/21d	≥100 mg/l (daphnia magna)
EC10	>1,000 mg/l (BES)
EC50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	100-180 mg/l (Oncorhynchus mykiss) >100 mg/l (Oryzias latipes) 161 mg/l (Pimephales promelas)

123-86-4 n-butyl acetate

EC50/24h	72.8 mg/l (daphnia magna) (DIN 38412)
EC50/96h	320 mg/l (algae)
LC50/24h	205 mg/l (daphnia magna)
IC50/72h	648 mg/l (Desmodesmus subspicatus)
EC10/18h	959 mg/l (pseudomonas putida)
EC50/48h	44 mg/l (daphnia magna) (OECD 202)
ErC50/72h	675 mg/l (Scenedesmus subspicatus)
EC50/16h	959 mg/l (pseudomonas putida)
NOEC	200 mg/kg (Desmodesmus subspicatus)
NOEC/21d	23 mg/l (daphnia magna) (OECD 211)
EC50/72h	647.7 mg/l (Desmodesmus subspicatus) (Zellvermehrungshemmtest) 397 mg/l (Scenedesmus subspicatus)
LC50/96h	62 mg/l (Danio rerio.) 81 mg/l (piscis) 100 mg/l (Iepomis macrochirus) 62 mg/l (Leuciscus idus) (DIN 38412) mg/l (Oncorhynchus mykiss)

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18 mg/l (pimephales promelas) (OECD 203)

141-78-6 ethyl acetate

EC50/24h	2,300-3,090 mg/l (daphnia magna)
EC50/96h	220 mg/l (Pimephales promelas)
EC10/18h	2,900 mg/l (pseudomonas putida)
EC50/48h	610 mg/l (daphnia magna) (DIN 38412)
	5,600 mg/l (Scenedesmus subspicatus)
IC50/48h	3,300 mg/l (Scenedesmus subspicatus)
LC 0	29.3 mg/l (rat)
NOELR/72h	>100 mg/l (Desmodemus subspicatus) (OECD 201)
NOEC/21d	2.4 mg/l (daphnia magna) (DIN 38412 Part 11)
EC10	2,900 mg/l (pseudomonas putida)
EC50/48h	3,300 mg/l (Scenedesmus subspicatus)
EC50/72h	1,800-3,200 mg/l (senastrum capricornutum)
LC50/96h	300-600 mg/l (Oncorhynchus mykiss)
	230 mg/l (Pimephales promelas)

reaction mass of ethylbenzole and xylene

LC50/24h	1 mg/l (daphnia magna) (OECD 202)
EC50/48h	3.2-9.5 mg/l (daphnia magna) (US EPA)
ErC50/72h	4.9 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC	16 mg/l (BES)
	1.3 mg/l (Oncorhynchus mykiss)
NOELR/72h	0.44 mg/l (Pseudokirchneriella subcapitata)
NOEC/21d	1.57 mg/l (daphnia magna) (OECD 211)
NOELR/28d	16 mg/l (bacteria)
EC50/72h	1-10 mg/l (algae)
	4.7 mg/l (senastrum capricornutum) (OECD 201)
LC50/96h	1-10 mg/l (fish)
	86 mg/l (Leuciscus idus)
	2.6 mg/l (Oncorhynchus mykiss) (OECD 203)
	8.9-16.4 mg/l (pimephales promelas)

123-92-2 isopentyl acetate

EC50/48h	26.3 mg/l (daphnia magna)
LC50/96h	11.1 mg/l (Danio rerio.)

12.2 Persistence and**degradability**

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects· Additional ecological information:· General notes:Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even extremely small quantities leak into the ground.

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Must not reach sewage water or drainage ditch undiluted or unneutralised.
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

SECTION 13: Disposal considerations**· 13.1 Waste treatment methods****· Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 04	metallic packaging
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by hazardous substances

· Uncleaned packaging:**· Recommendation:**

Disposal must be made according to official regulations.

SECTION 14: Transport information**· 14.1 UN number or ID number****· ADR, IMDG, IATA**

UN1950

· 14.2 UN proper shipping name**· ADR**

1950 AEROSOLS

· IMDG

AEROSOLS

· IATA

AEROSOLS, flammable

· 14.3 Transport hazard class(es)**· ADR****· Class**

2.5F Gases.

· Label

2.1

· IMDG, IATA**· Class**

2.1 Gases.

· Label

2.1

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· 14.4 Packing group · <u>ADR, IMDG, IATA</u>	Void
· 14.5 Environmental hazards: · <u>Marine pollutant:</u>	No
· 14.6 Special precautions for user · <u>Hazard identification number (Kemler code):</u> · <u>EMS Number:</u> · <u>Stowage Code</u> · <u>Segregation Code</u>	Warning: Gases. - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· <u>Transport/Additional information:</u>	
· <u>ADR</u> · <u>Limited quantities (LQ)</u> · <u>Excepted quantities (EQ)</u> · <u>Transport category</u> · <u>Tunnel restriction code</u>	1L Code: E0 Not permitted as Excepted Quantity 2 D
· <u>IMDG</u> · <u>Limited quantities (LQ)</u> · <u>Excepted quantities (EQ)</u>	1L Code: E0 Not permitted as Excepted Quantity
· <u>UN "Model Regulation":</u>	UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· <u>Directive 2012/18/EU</u>	
· <u>Named dangerous substances - ANNEX I</u>	None of the ingredients is listed.
· <u>Seveso category</u>	P3a FLAMMABLE AEROSOLS
· <u>Qualifying quantity (tonnes) for the application of lower-tier requirements</u>	150 t
· <u>Qualifying quantity (tonnes) for the application of upper-tier requirements</u>	500 t
· <u>REGULATION (EC) No 1907/2006 ANNEX XVII</u>	Conditions of restriction: 3

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· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 697.2 g/l

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Department issuing SDS: Laboratory

· Date of previous version: 20.02.2024

· Version number of previous version: 15

· Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 ATE: Acute toxicity estimate values
 Flam. Gas 1A: Flammable gases – Category 1A
 Aerosol 1: Aerosols – Category 1
 Press. Gas (Comp.): Gases under pressure – Compressed gas
 Flam. Liq. 2: Flammable liquids – Category 2
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2

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Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

EU