

Safety data sheet

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

Printing date 12.11.2025

Version number 15 (replaces version 14)

Revision: 12.11.2025

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

1.1 Product identifier

Trade name: **Spray Rubber Undercoating**

Article number: 87870

UFI: 20U3-P0E8-U007-NT4J

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

Coating

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 Irrit. 2 H319 Causes serious eye irritation.

STOT RE 2 H373 May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Storage:

Store in a well-ventilated place. Keep cool.

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

Store locked up.

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 GHS07 GHS08

Signal word

Danger

Hazard-determining components of labelling:

xylene

Hazard statements

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

H315 Causes skin irritation.

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· <u>Precautionary statements</u>	H319	Causes serious eye irritation.
	H373	May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.
	H412	Harmful to aquatic life with long lasting effects.
	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 spray.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	P302+P352	IF ON SKIN: Wash with plenty of water.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P314	Get medical advice/attention if you feel unwell.
	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.
· 2.3 Other hazards		
· Results of PBT and vPvB assessment		
· PBT:	Not applicable.	
· vPvB:	Not applicable.	
· <u>Determination of endocrine-disrupting properties</u>	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: 68476-85-7 EINECS: 270-704-2 Index number: 649-202-00-6	Petroleum gases, liquefied Flam. Gas 1A, H220 Press. Gas (Liq.), H280	25-50%
CAS: 64742-49-0 EC number: 921-024-6 Index number: 649-328-00-1 Reg.nr.: 01-2119475514-35 01-2119475515-33	Naphtha (petroleum), hydrotreated light Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	12.5-25%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119555267-33 01-2119488216-32	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	12.5-25%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35 01-2119892111-44	ethylbenzene Flam. Liq. 2, H225 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332 Aquatic Chronic 3, H412	1-5%

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CAS: 110-54-3 EINECS: 203-777-6 Index number: 601-037-00-0 Reg.nr.: 01-2119480412-44-xxxx	n-hexane Flam. Liq. 2, H225 Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336 Specific concentration limit: STOT RE 2; H373: C ≥ 5 %	<1%
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	<1%

· 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.
Position and transport stably in side position.
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: If skin irritation continues, consult a doctor.
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.
If symptoms persist consult doctor.

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

Breathing difficulty
Headache
Dizziness
Dizziness
Coughing
Profuse sweating
Nausea
Danger of impaired breathing.

· Hazards**· 4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation with added, activated carbon.
If swallowed or in case of vomiting, danger of entering the lungs.

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.

· For safety reasons unsuitable extinguishing agents:

Water with full jet

· 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:
Carbon monoxide (CO)
Formation of toxic gases is possible during heating or in case of fire.

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· **5.3 Advice for firefighters**· Protective equipment:

Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Mount respiratory protective device.

SECTION 6: Accidental release measures· **6.1 Personal precautions, protective equipment and emergency procedures**· **6.2 Environmental precautions:**

Wear protective equipment. Keep unprotected persons away.
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.
Do not allow to enter sewers/ surface or ground water.

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

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**

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

· Information about fire - and explosion protection:

Fumes can combine with air to form an explosive mixture.
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **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:· Further information about storage conditions:

Store away from oxidising agents.
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.

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SECTION 8: Exposure controls/personal protection**· 8.1 Control parameters****· Ingredients with limit values that require monitoring at the workplace:****100-41-4 ethylbenzene**

IOELV	Short-term value: 884 mg/m ³ , 200 ppm Long-term value: 442 mg/m ³ , 100 ppm Skin
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110-54-3 n-hexane

IOELV	Long-term value: 72 mg/m ³ , 20 ppm
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108-65-6 2-methoxy-1-methylethyl acetate

IOELV	Short-term value: 550 mg/m ³ , 100 ppm Long-term value: 275 mg/m ³ , 50 ppm Skin
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· DNELs**64742-49-0 Naphtha (petroleum), hydrotreated light**

Oral	DNEL (Langzeit-wiederholt)	699 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	300 mg/kg bw/day (ARB)
		699 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	2,035 mg/m ³ Air (ARB)
		608 mg/m ³ Air (BEV)

1330-20-7 xylene

Oral	DNEL (Langzeit-wiederholt)	12.5 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	212 mg/kg bw/day (ARB)
		125 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	442 mg/m ³ Air (ARB)
		260 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	221 mg/m ³ Air (ARB)
		65.3 mg/m ³ Air (BEV)

100-41-4 ethylbenzene

Oral	DNEL (Langzeit-wiederholt)	1.6 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	180 mg/kg bw/day (ARB)
Inhalative	DNEL (Kurzzeit-akut)	293 mg/m ³ Air (ARB)
	DNEL (Langzeit-wiederholt)	77 mg/m ³ Air (ARB)
		15 mg/m ³ Air (BEV)

110-54-3 n-hexane

Dermal	DNEL (Langzeit-wiederholt)	11 mg/kg bw/day (ARB)
		5.3 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	75 mg/m ³ Air (ARB)

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)
Inhalative	DNEL (Kurzzeit-akut)	550 mg/m ³ Air (ARB)
		33 mg/m ³ Air (BEV)

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	DNEL (Langzeit-wiederholt)	275 mg/m ³ Air (ARB) 33 mg/m ³ Air (BEV)
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· **PNECs****1330-20-7 xylene**

PNEC (wässrig)	6.58 mg/l (KA) 0.327 mg/l (MW) 0.327 mg/l (SW) 0.327 mg/l (WAS)
PNEC (fest)	2.31 mg/kg Trockengew (BO) 12.46 mg/kg Trockengew (MWS) 12.46 mg/kg Trockengew (SWS)

100-41-4 ethylbenzene

PNEC (wässrig)	9.6 mg/l (KA) 0.01 mg/l (MW) 0.1 mg/l (SW) 0.1 mg/l (WAS)
PNEC (fest)	2.68 mg/kg Trockengew (BO) 1.37 mg/kg Trockengew (MWS) 13.7 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) 6.35 mg/l (WAS)
PNEC (fest)	0.29 mg/kg Trockengew (BO) 0.329 mg/kg Trockengew (MWS) 3.29 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:**

Do not eat, drink, smoke or sniff while working.
 Use skin protection cream for skin protection.
 Clean skin thoroughly immediately after handling the product.
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the skin.
 Avoid contact with the eyes and skin.

· **Respiratory protection:**

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**

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

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

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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>).

**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

Butyl rubber, BR
Chloroprene rubber, CR
Natural rubber, NR

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

Value for the permeation: Level ≤ 6; 480 min

The exact break through 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:

Chloroprene rubber, CR
Natural rubber, NR
Butyl rubber, BR

· Not suitable are gloves made of the following materials:

Neoprene gloves
Leather gloves
Strong material gloves
Nitrile rubber, NBR

· Eye/face protection**Tightly sealed goggles**· Body protection:

Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information· Colour:

Black

· Odour:

Specific type

· Odour threshold:

Not determined.

· Melting point/freezing point:

Undetermined.

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· <u>Boiling point or initial boiling point and boiling range</u>	-40--2 °C
· <u>Flammability</u>	Not applicable.
· <u>Lower and upper explosion limit</u>	
· <u>Lower:</u>	1.4 Vol %
· <u>Upper:</u>	10.9 Vol %
· <u>Flash point:</u>	<-40 °C
· <u>Auto-ignition temperature:</u>	365 °C
· <u>Decomposition temperature:</u>	Not determined.
· <u>pH</u>	Not determined.
	Not applicable
· <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>	5,900-17,600 hPa
· <u>Density and/or relative density</u>	
· <u>Density at 20 °C:</u>	0.71 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>	78.3 %
· <u>Change in condition</u>	
· <u>Evaporation rate</u>	Not applicable.
· <u>Information with regard to physical hazard classes</u>	
· <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
· <u>Self-reactive substances and mixtures</u>	Void
· <u>Pyrophoric liquids</u>	Void
· <u>Pyrophoric solids</u>	Void
· <u>Self-heating substances and mixtures</u>	Void
· <u>Substances and mixtures, which emit flammable gases in contact with water</u>	Void
· <u>Oxidising liquids</u>	Void
· <u>Oxidising solids</u>	Void
· <u>Organic peroxides</u>	Void
· <u>Corrosive to metals</u>	Void
· <u>Desensitised explosives</u>	Void

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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:** strong oxidizing agents
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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	127,665 mg/kg (rat)
Inhalative	LC50/4 h	325 mg/l (rat)

64742-49-0 Naphtha (petroleum), hydrotreated light

Oral	LD50	>5,840 mg/kg (rat)
Dermal	LD50	>2,920 mg/kg (rabbit)
Inhalative	LC50	2,800-3,100 mg/kg (rat)
		>25.2 mg/l (rat)
	LC50/4 h	>25 mg/l (rat)

1330-20-7 xylene

Oral	LD50	3,523-4,300 mg/kg (rat)
Dermal	LD50	>4,200 mg/kg (rabbit)
Inhalative	LC50/4h	29,000 mg/m ³ (rat)
	LC50/4 h	21.7 mg/l (rat)
	LC50/48h	86 mg/l (Leuciscus idus)

100-41-4 ethylbenzene

Oral	LD50	3,500 mg/kg (rat)
	NOAEL	75 mg/kg /90 Tage (rat)
Dermal	LD50	17,800 mg/kg (rabbit)
Inhalative	LC50/4 h	17.2 mg/l (rat)

110-54-3 n-hexane

Oral	LD50	16,000 mg/kg (rat)
Dermal	LD50	3,350 mg/kg (rabbit)
Inhalative	LC50	>17,600 mg/l /Staub (rat)
	LC50/4 h	169 mg/l (rat)
	LC50/1h	17.6 mg/l (rat)

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

Oral	LD50	8,500 mg/kg (rat) (OECD 401)
	NOAEL-Werte	1,500 mg/kg (rat)

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Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)
		>2,000 mg/kg (rat)
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)

- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- 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 Based on available data, the classification criteria are not met.
- STOT-repeated exposure May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.
- 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.

SECTION 12: Ecological information

- **12.1 Toxicity**

- Aquatic toxicity:

68476-85-7 Petroleum gases, liquefied

IC50/72h	<10 mg/l (algae)
EC50/48h	3 mg/l (daphnia magna)
NOEC/21d	1 mg/l (daphnia magna)
LC50/96h	<10 mg/l (piscis)
	>13.4 mg/l (Oncorhynchus mykiss)

64742-49-0 Naphtha (petroleum), hydrotreated light

EC50	1-10 mg/l (daphnia magna)
LC50	35-37 mg/l (piscis)
EC50/48h	3 mg/l (daphnia magna)
EL50/72h	30-100 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	>11.4 mg/l (Oncorhynchus mykiss)
NOELR/72h	3 mg/l (Pseudokirchneriella subcapitata)
NOEC/21d	0.17 mg/l (daphnia magna)

1330-20-7 xylene

EC50/24h	>175 mg/l (bacteria)
	165 mg/l (daphnia magna)
EC50	10 mg/l (bacteria)
	>3.4 mg/l (ceriodaphnia Dubai)
IC50	96 mg/l (BES)
	1 mg/l (daphnia magna)
LC50	3.3 mg/l (piscis)

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LC50/24h	32 mg/l (Iepomis macrochirus)
IC50/72h	2.2 mg/l (algae)
	3.3 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	1 mg/l (daphnia magna)
NOEC	0.714 mg/l (Danio rerio.)
	0.96-1.17 mg/l (daphnia magna)
	>1.3 mg/l (Oncorhynchus mykiss)
	0.44 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC/21d	1.17 mg/l (daphnia magna)
EC50/72h	4.7 mg/l (Pseudokirchneriella subcapitata)
	2.2 mg/l (selenastrum capricornutum) (OECD 201)
LC50/96h	16.9 mg/l (carp)
	1.57 mg/l (Cyprinus carpio)
	3.77-13.5 mg/l (piscis)
	20.9 mg/l (Iepomis macrochirus)
	7.6 mg/l (Oncorhynchus mykiss)
	13.4 mg/l (Pimephales promelas)

100-41-4 ethylbenzene

EC50/96h	7.7 mg/l (Skeletonema costatum (Kieselalge))
	3.6 mg/l (Pseudokirchneriella subcapitata)
EC50	2.2 mg/l (daphnia magna)
LC50	12.1 mg/l (fish)
	mg/l (rat)
LC50/24h	26.74-43.67 mg/l (Iepomis macrochirus)
EC5	12 mg/l (Pseudomonas putida)
EC50/48h	1.8-2.4 mg/l (daphnia magna)
EC50/16h	>12 mg/l (bacteria)
EC50/30min	600 mg/l (BES)
NOEC	0.96 mg/l / 7 days (Ceriodaphnia dubia)
EC50/72h	4.9 mg/l (Skeletonema costatum (Kieselalge))
	5.4 mg/l (Pseudokirchneriella subcapitata)
	4.6 mg/l (selenastrum capricornutum)
LC50/96h	94.44 mg/l (carp)
	32 mg/l (Iepomis macrochirus)
	4.2 mg/l (Oncorhynchus mykiss)
	12.1 mg/l (Pimephales promelas)

110-54-3 n-hexane

EC50	50 mg/l (daphnia magna)
EL50/48h	21.85 mg/l (daphnia magna)
EL50/72h	9.285 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	12.51 mg/l (Oncorhynchus mykiss)
NOELR/21d	4.888 mg/l (daphnia magna)
NOELR/28d	2.8 mg/l (Oncorhynchus mykiss)
LC50/96h	2.5 mg/l (Pimephales promelas)

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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)
	>1,000 mg/l (Oryzias latipes)
	161 mg/l (Pimephales promelas)

· **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**

· Remark: Harmful to fish

· Additional ecological information:

· General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even small quantities leak into the ground.

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.

· Uncleaned packaging:

· Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

· Recommended cleansing agents: Alcohol

* **SECTION 14: Transport information**

· **14.1 UN number or ID number**

· ADR, IMDG, IATA UN1950

· **14.2 UN proper shipping name**

· ADR 1950 AEROSOLS

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· IMDG
· IATA

AEROSOLS
AEROSOLS, flammable

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

· Class
· Label

2 5F Gases.
2.1

· IMDG, IATA

· Class
· Label

2.1 Gases.
2.1

· **14.4 Packing group**· ADR, IMDG, IATA

Void

· **14.5 Environmental hazards:**· Marine pollutant:

No

· **14.6 Special precautions for user**· Hazard identification number (Kemler code):

-

· EMS Number:

F-D,S-U

· Stowage Code

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.

· Segregation Code

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.

· Transport/Additional information:· ADR· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

· Transport category

2

· Tunnel restriction code

D

· IMDG· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

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· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1
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SECTION 15: Regulatory information

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

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

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

None of the ingredients is listed.

· <u>REGULATION (EU) 2019/1148</u>

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

None of the ingredients is listed.

· <u>Annex II - REPORTABLE EXPLOSIVES PRECURSORS</u>
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None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

· <u>National regulations:</u>

· <u>Information about limitation of use:</u>	Employment restrictions concerning pregnant and lactating women must be observed. Employment restrictions concerning juveniles must be observed.
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· <u>Waterhazard class:</u>	Water hazard class 3 (Self-assessment): extremely hazardous for water.
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· <u>Substances of very high concern (SVHC) according to REACH, Article 57</u>
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None of the ingredients is listed.

· <u>VOC EU</u>	559.2 g/l
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· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.
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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 Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· <u>Department issuing SDS:</u>	Laboratory
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· <u>Date of previous version:</u>	22.08.2025
· <u>Version number of previous version:</u>	14
· <u>Abbreviations and acronyms:</u>	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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 (Liq.): Gases under pressure – Liquefied 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 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Repr. 2: Reproductive toxicity – 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 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

EU