

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 31.08.2022

Revision: 31.08.2022

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

- **1.1 Product identifier**
- **Trade name:** Zink Spray Special Bright 400 ml (W140 436)
- **1.2 Relevant identified uses of the substance or mixture and uses advised against -**
- **Application of the substance / the mixture** Aerosol coating
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Winkel GmbH
- Lisztstr. Nr.1
- D-53881 Euskirchen
- +49 (0) 22517769400401
- info@winkelgroup.de
- info@winkelgroup.de
- **1.4 Emergency telephone number:** +49 (0) 22517769400401

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



flame

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Water-react. 1	H260	In contact with water releases flammable gases which may ignite spontaneously.



health hazard

STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
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corrosion

Eye Dam. 1	H318	Causes serious eye damage.
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environment

Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.
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Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.

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· Hazard pictograms



GHS02 GHS05 GHS07 GHS08 GHS09

· Signal word Danger

· Hazard-determining components of labelling:

butanol
xylene (mix)
n-butyl acetate
Naphtha (petroleum), hydrotreated heavy

· Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H260 In contact with water releases flammable gases which may ignite spontaneously.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
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 mist.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P403 Store in a well-ventilated place.
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.

· Additional information:

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.
Buildup of explosive mixtures possible without sufficient ventilation.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

- Description: Active substance with propellant

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· Dangerous components:		
CAS: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37	dimethyl ether Flam. Gas 1A, H220; Press. Gas (Liq.), H280	50-<75%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	xylene (mix) 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	10-<25%
CAS: 7440-66-6 EINECS: 231-175-3 Reg.nr.: 01-2119467174-37	zinc powder -zinc dust (stabilized) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2.5-<10%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	2.5-<10%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	2.5-<10%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	2.5-<10%
CAS: 71-36-3 EINECS: 200-751-6 Reg.nr.: 01-2119484630-38	butanol Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	1-<2.5%
CAS: 68308-64-5 EINECS: 269-662-8	Quaternary ammonium compounds, cocoalkylethyldimethyl, Et sulfates Skin Corr. 1A, H314; Aquatic Acute 1, H400 (M=10); Acute Tox. 4, H302	≥0.1-<0.25%
· Ingredients according to detergents guideline 648/2004/EC		
aliphatic hydrocarbons		≥30%
aromatic hydrocarbons		≥5 - <15%

· **Additional information:**

Aerosols and containers fitted with a solid atomizer containing substances or mixtures classified as hazardous by aspiration shall not be labelled for that hazard.

The text of the hazard statements mentioned here can be found in chapter 16.

The application of a TWD (Tactile Warning of Danger) is mandatory if this product is offered on the consumer market. Please note that the TWD is part of the packaging and not of the classification.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
 - Water haze
 - Fire-extinguishing powder
 - Carbon dioxide
 - Alcohol resistant foam
- **For safety reasons unsuitable extinguishing agents:** Water
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** 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.
- **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.
 - Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
 - Ensure adequate ventilation.
 - Do not flush with water or aqueous cleansing agents
- **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.
- **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:**
 - Observe official regulations on storing packagings with pressurised containers.
- **Further information about storage conditions:**
 - Store in cool, dry conditions in well sealed receptacles.
 - Protect from heat and direct sunlight.
- **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**
- **Additional information about design of technical facilities:** No further data; see item 7.

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

115-10-6 dimethyl ether

WEL	Short-term value: 958 mg/m ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm
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1330-20-7 xylene (mix)

WEL	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
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123-86-4 n-butyl acetate

WEL	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm
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141-78-6 ethyl acetate

WEL	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm
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67-64-1 Acetone

WEL	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
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71-36-3 butanol

WEL	Short-term value: 154 mg/m ³ , 50 ppm Sk
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· **DNELs**

1330-20-7 xylene (mix)

Oral	DNEL Long term-systemic	12.5 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	125 mg/kg bw/day (Consumer) 212 mg/kg bw/day (Worker)
Inhalative	DNEL Aigu-systémique	260 mg/m ³ (Consumer) 442 mg/m ³ (Worker)
	DNEL Acute-local	260 mg/m ³ (Consumer) 442 mg/m ³ (Worker)
	DNEL Long term-systemic	65.3 mg/m ³ (Consumer) 221 mg/m ³ (Worker)
	DNEL Long term-local	65.3 mg/m ³ (Consumer) 221 mg/m ³ (Worker)

7440-66-6 zinc powder -zinc dust (stabilized)

Oral	DNEL Long term-systemic	50 mg/kg bw/day (Worker)
Dermal	DNEL Long term-systemic	5000 mg/kg bw/day (Consumer) 5000 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-systemic	2.5 mg/m ³ (Consumer) 5 mg/m ³ (Worker)

123-86-4 n-butyl acetate

Oral	DNEL Acute-systemic	2 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	2 mg/kg bw/day (Consumer)
	DNEL Acute-systemic	5 mg/kg bw/day (Consumer)

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Inhalative	DNEL Long term-systemic	11 mg/kg bw/day (Worker) 5 mg/kg bw/day (Consumer)
	DNEL Aigu-systémique	11 mg/kg bw/day (Worker) 859.7 mg/m3 (Consumer)
	DNEL Acute-local	600 mg/m3 (Worker) 300 mg/m3 (Consumer)
	DNEL Long term-systemic	600 mg/m3 (Worker) 35.7 mg/m3 (Consumer)
	DNEL Long term-local	300 mg/m3 (Worker) 35.7 mg/m3 (Consumer)
		300 mg/m3 (Worker)
141-78-6 ethyl acetate		
Oral	DNEL Long term-systemic	4.5 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	37 mg/kg bw/day (Consumer)
		63 mg/kg bw/day (Worker)
Inhalative	DNEL Aigu-systémique	734 mg/m3 (Consumer)
		1468 mg/m3 (Worker)
	DNEL Acute-local	734 mg/m3 (Consumer)
		1468 mg/m3 (Worker)
	DNEL Long term-systemic	367 mg/m3 (Consumer)
		34 mg/m3 (Worker)
	DNEL Long term-local	367 mg/m3 (Consumer)
		734 mg/m3 (Worker)
67-64-1 Acetone		
Oral	DNEL Long term-systemic	62 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	62 mg/kg bw/day (Consumer)
		186 mg/kg bw/day (Worker)
Inhalative	DNEL Acute-local	2420 mg/m3 (Worker)
	DNEL Long term-systemic	200 mg/m3 (Consumer)
		1210 mg/m3 (Worker)
64742-48-9 Naphtha (petroleum), hydrotreated heavy		
Inhalative	DNEL Acute-local	640 mg/m3 (Consumer)
		1066.67 mg/m3 (Worker)
	DNEL Long term-systemic	1152 mg/m3 (Consumer)
		1286.4 mg/m3 (Worker)
	DNEL Long term-local	178.57 mg/m3 (Consumer)
		837.5 mg/m3 (Worker)
71-36-3 butanol		
Oral	DNEL Long term-systemic	3125 mg/kg bw/day (Consumer)
		0.3 mg/kg bw/day (Worker)
Dermal	DNEL Long term-systemic	2.7 mg/kg bw/day (Consumer)
		5.5 mg/kg bw/day (Worker)
Inhalative	DNEL Aigu-systémique	159.8 mg/m3 (Consumer)
		214 mg/m3 (Worker)
	DNEL Long term-systemic	0.5 mg/m3 (Consumer)

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	DNEL Long term-local	2.7 mg/m ³ (Worker) 55 mg/m ³ (Consumer) 310 mg/m ³ (Worker)
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· **PNECs****7440-66-6 zinc powder -zinc dust (stabilized)**

PNEC Freshwater	20.6 mg/l (Undefined)
PNEC Marine water	6.1 mg/l (Undefined)
PNEC Freshwater sediment	118 mg/l(dry weight) (Undefined)
PNEC Soil	56.6 mg/kg (Undefined)
PNEC Sewage Treatment Plant	52 mg/l (Undefined)
PNEC Marine water sediment	56.5 mg/l(dry weight) (Undefined)

123-86-4 n-butyl acetate

PNEC Freshwater	0.18 mg/l (Undefined)
PNEC Marine water	0.015 mg/l (Undefined)
PNEC Freshwater sediment	0.981 mg/l(dry weight) (Undefined)
PNEC Intermittent release	0.36 (Undefined)
PNEC Soil	0.0903 mg/kg (Undefined)
PNEC Sewage Treatment Plant	35.6 mg/l (Undefined)
PNEC Marine water sediment	0.0981 mg/l(dry weight) (Undefined)

141-78-6 ethyl acetate

PNEC Freshwater	0.26 mg/l (Undefined)
PNEC Marine water	0.026 mg/l (Undefined)
PNEC Freshwater sediment	0.34 mg/l(dry weight) (Undefined)
PNEC Soil	0.22 mg/kg (Undefined)
PNEC Sewage Treatment Plant	650 mg/l (Undefined)
PNEC Marine water sediment	0.034 mg/l(dry weight) (Undefined)

67-64-1 Acetone

PNEC Marine water	1.06 mg/l (Undefined)
PNEC Freshwater sediment	30.4 mg/l(dry weight) (Undefined)
PNEC Soil	29.5 mg/kg (Undefined)
PNEC Marine water sediment	3.04 mg/l(dry weight) (Undefined)

· **Ingredients with biological limit values:****1330-20-7 xylene (mix)**

BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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· **Additional Occupational Exposure Limit Values for possible hazards during processing:****100-41-4 ethylbenzene**

WEL	Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm Sk
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108-88-3 toluene

WEL	Short-term value: 384 mg/m ³ , 100 ppm Long-term value: 191 mg/m ³ , 50 ppm Sk
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· **Additional information:** The lists valid during the making were used as basis.

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- **8.2 Exposure controls**
 - **Personal protective equipment:**
 - **General protective and hygienic measures:**
 - Wash hands before breaks and at the end of work.
 - General ventilation
 - **Respiratory protection:**
 - Use suitable respiratory protective device in case of insufficient ventilation.
 - Filter A2/P2
 - **Protection of hands:**
 - Solvent resistant gloves
 - 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.
 - Nitrile rubber, NBR
 - Recommended thickness of the material: ≥ 0.5 mm
 - **Penetration time of glove material**
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - **Eye protection:**
 - Safety glasses
- 
Tightly sealed goggles
- **Body protection:**
 - Use protective suit. (EN-13034/6)
 - Full skin covering antistatic, chemical and oil resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688; EN13034-6).
 - **Limitation and supervision of exposure into the environment**
 - Use a suitable container to prevent environmental contamination.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Aerosol
Colour:	According to product specification
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Mixture is non-polar/aprotic.
- **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	-24.8 °C
- **Flash point:** -42 °C
- **Flammability (solid, gas):** Contact with water liberates extremely flammable gases.
- **Ignition Temperature** 370 °C

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· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Not determined.
· Explosion limits:	
Lower:	1.1 Vol %
Upper:	26 Vol %
· Vapour pressure at 20 °C:	5200 hPa
· Density at 20 °C:	0.853 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	84.0 %
Solids content:	16.2 %

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** Contact with water releases flammable gases.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

1330-20-7 xylene (mix)

Oral	LD50	4300 mg/kg /bw (Rat) (Acute Oral Toxicity)
Dermal	LD50	12126 mg/kg /bw (Rabbit)
Inhalative	LC50 (4h)	6350 mg/l (Rat)

7440-66-6 zinc powder -zinc dust (stabilized)

Oral	LD50	>2000 mg/kg (Rat)
Inhalative	LC50 (4h)	>5.4 mg/l (Rat)

123-86-4 n-butyl acetate

Oral	LD50	10760 mg/kg (Rat)
Dermal	LD50	>14000 mg/kg (Rabbit)
Inhalative	LC50 (4h)	>23.4 mg/l (Rat)

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141-78-6 ethyl acetate

Oral	LD50	4934 mg/kg (Rabbit) 5620 mg/kg (Rat)
Dermal	LD50	18000 mg/kg (Rat)
Inhalative	LC50 (4h)	29.3 mg/l (Rat)

67-64-1 Acetone

Oral	LD50	5800 mg/kg (Rat) (Acute Oral Toxicity)
Dermal	LD50	7800 mg/kg (Rabbit)
Inhalative	LC50 (4h)	>20 mg/l (Rat)

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>5000 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rabbit)
Inhalative	LC50	>5610 mg/L (Rat)

71-36-3 butanol

Oral	LD50	2292 mg/kg (Rat)
Dermal	LD50	3430 mg/kg (Rabbit)
Inhalative	LC50 (4h)	21 mg/l (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **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 respiratory irritation. May cause drowsiness or dizziness.
- **STOT-repeated exposure**
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information· **12.1 Toxicity**· **Aquatic toxicity:****1330-20-7 xylene (mix)**

LC50 (96h)	8.9-16.4 mg/l (Pimephales promelas)
EC50 (48h)	3.2-9.5 mg/l (Daphnia magna)

7440-66-6 zinc powder -zinc dust (stabilized)

EC50	354 ug/l (dap)
NOEC (21 days)	178 ug/l (Crustaceen-Palaemon elegans)
NOEC (72h)	9 mg/l (Ceratophyllum demersum) 0.017 mg/l (Pseudokirchneriella subcapitata)
NOEC (72h)	72.9 ug/l (Pseudokirchneriella subcapitata)
NOEC (28 days)	8.3 ug/l (Cyprinus carpio)

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EC10 (21 days)	59.2 ug/l (Daphnia magna)
EC10 (72h)	27.3 ug/l (Algae)
EC50 (72h)	0.17 mg/l (Selenastrum capricornatum)
LC50 (96h)	0.41 mg/l (Oncorhynchus mykiss)
EC50 (48h)	1 mg/l (Daphnia magna)
EC50 (96h)	0.527 mg/l (Algae)
LC50	238-269 ug/l (fi2)
123-86-4 n-butyl acetate	
LC50 (96h)	18 mg/l (Fish)
EC50 (48h)	44 mg/l (Daphnia magna)
141-78-6 ethyl acetate	
EC50 (48h)	0.164 mg/l (Daphnia magna)
	3.3 mg/l (Scenedesmus subspicatus)
EC50	7.4 mg/l (Pseudomonas fluorescens)
67-64-1 Acetone	
EC50	8800 mg/l (Daphnia magna)
	8300 mg/l (Fish)
71-36-3 butanol	
NOEC (21 days)	4.1 mg/l (Daphnia magna)
LC50 (96h)	1376 mg/l (Pimephales promelas)
EC50 (48h)	1328 mg/l (Daphnia magna)
EC50	225 mg/l (Selenastrum capricornatum)

- **12.2 Persistence and degradability** Not easily biodegradable
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxical effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
 - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 - Do not allow product to reach ground water, water course or sewage system.
 - Danger to drinking water if even small quantities leak into the ground.
 - Also poisonous for fish and plankton in water bodies.
 - Toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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SECTION 14: Transport information

· 14.1 UN-Number · ADR, ADN, IMDG, IATA	UN1950
· 14.2 UN proper shipping name · ADR, ADN · IMDG · IATA	UN1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS, MARINE POLLUTANT AEROSOLS, flammable
· 14.3 Transport hazard class(es) · ADR <div style="display: flex; align-items: center;">   </div> · Class · Label	2 5F Gases. 2.1
· ADN · ADN/R Class:	2 5F
· IMDG <div style="display: flex; align-items: center;">   </div> · Class · Label	2.1 Gases. 2.1
· IATA <div style="display: flex; align-items: center;">  </div> · Class · Label	2.1 Gases. 2.1
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Code · Segregation Code	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.

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·	For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	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
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

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**
 - O2 Substances and mixtures which in contact with water emit flammable gases
 - P3a FLAMMABLE AEROSOLS
 - E2 Hazardous to the Aquatic Environment
 - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
 - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
 - **National regulations:**
 - **Breakdown regulations:**
- | Class | Share in % |
|-------|------------|
| NK | 75-<100 |
- **VOC-CH** 84.00 %
 - **VOC-EU** 716.5 g/l
 - **Danish MAL Code** 4-3
 - **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.

- **Relevant phrases**
 - H220 Extremely flammable gas.
 - H225 Highly flammable liquid and vapour.
 - H226 Flammable liquid and vapour.
 - H280 Contains gas under pressure; may explode if heated.
 - H302 Harmful if swallowed.
 - H304 May be fatal if swallowed and enters airways.
 - H312 Harmful in contact with skin.

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H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

• **Classification according to Regulation (EC) No 1272/2008**

Physical and chemical properties: The classification is based on the results of the mixtures tested. Health hazards, Environmental hazards: The method of classification of mixtures based on the constituents of the mixture (sum formula).

• **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)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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 Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2