Zinc 240 500ml

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

1.1. Product identifier

Trade name/designation:

Zinc 240 500ml

Article No.:
T111002

UFI:
XM56-D9EK-31NQ-J0MD

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

Use of the substance/mixture:
Aerosol coating

1.3. Details of the supplier of the safety data sheet

Supplier:

Techniqua Handels GmbH
Hartleitnerstraße 3
4653 Eberstalzell
Austria
Telephone: +43 (0) 7241 213 79
E-mail: office@techniqua.at

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Hazardous to the aquatic environment *(Aquatic Acute 1)*	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment *(Aquatic Chronic 1)*	H410: Very toxic to aquatic life with long lasting effects.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
STOT-single exposure *(STOT SE 3)*	H336: May cause drowsiness or dizziness.	
Aerosols *(Aerosol 1)*	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	

2.2. Label elements

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

Hazard pictograms:

GHS09
Environment

GHS07
Exclamation mark

GHS02
Flame

Signal word: Danger

Hazard components for labelling:
Acetone; Hydrocarbons, C9, aromatics; propan-2-ol

Hazard statements for physical hazards	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

Hazard statements for health hazards	
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Hazard statements for environmental hazards	
H410	Very toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

Precautionary statements Prevention	
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 dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Precautionary statements Response	
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER if you feel unwell.

Precautionary statements Storage	
P403	Store in a well-ventilated place.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary statements Disposal	
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

2.3. Other hazards

Other adverse effects:
The product does not meet the PBT/vPvB criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:
Active ingredient mixture with propellant gas

Additional information:
Aerosols and containers fitted with a solid nebuliser containing substances or mixtures classified as hazardous by aspiration must not be labelled for this hazard.

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Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 115-10-6 EC No.: 204-065-8 REACH No.: 01-2119472128-37	**dimethyl ether** Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	25 – < 50 %
CAS No.: 7440-66-6 EC No.: 231-175-3 Index No.: 030-001-01-9 REACH No.: 01-2119467174-37	**Zinc powder - Zinc dust (stabilised)** Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410) Warning	25 – < 50 %
CAS No.: 67-64-1 Index No.: 606-001-00-8 REACH No.: 01-2119471330-49	**Acetone** Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger EUH066	10 – < 25 %
CAS No.: 128601-23-0 EC No.: 918-668-5 REACH No.: 01-2119455851-35	**Hydrocarbons, C9, aromatics** Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H335, H336) Danger	2.5 – < 10 %
EC No.: 905-588-0 REACH No.: 01-2119488216-32	**Reaction mass of ethylbenzene and xylene** Acute Tox. 4 (H312, H332), Asp. Tox. 1 (H304), Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), STOT RE 2 (H373), STOT SE 3 (H335), Skin Irrit. 2 (H315) Danger	2.5 – < 10 %
CAS No.: 1314-13-2 EC No.: 215-222-5 Index No.: 030-013-00-7 REACH No.: 01-2119463881-32	**zinc oxide** Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410) Warning	1 – < 2.5 %
CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH No.: 01-2119457558-25	**propan-2-ol** Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger	1 – < 2.5 %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:
Fresh air supply, consult a doctor in case of complaints.

In case of skin contact:
In general, the product is not irritating to skin.

After eye contact:
Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist

Following ingestion:
Do not induce vomiting, seek 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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water mist, Extinguishing powder, Carbon dioxide, alcohol resistant foam

Unsuitable extinguishing media:
Water in full jet

5.2. Special hazards arising from the substance or mixture
No further relevant information available.

5.3. Advice for firefighters
Special protective equipment: Put on breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Personal precautions:
Wear protective equipment. Keep unprotected persons away.

6.1.2. For emergency responders
No data available

6.2. Environmental precautions
Do not allow to enter into surface water or drains. In case of spillage into water or sewage system, inform the competent authorities.

6.3. Methods and material for containment and cleaning up
For cleaning up:
Do not wash away with water or aqueous detergents.
Other information:
Provide adequate ventilation.

6.4. Reference to other sections
Further information on proper storage: see section 7.
For further information on personal protective equipment: see section 8.
For further information on disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures
Advices on safe handling:
Ensure good ventilation/extraction at the workplace.
Fire prevent measures:
Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Do not open by force or burn even after use.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels:
Store in a cool place. The official regulations for the storage of pressurised gas packages must be observed.
Hints on storage assembly:
The official regulations for the storage of pressurised gas packages must be observed.
Storage class (TRGS 510, Germany): 2B – Aerosol dispensers and lighters
Further information on storage conditions:
Store in a cool, dry place in well-sealed containers. Protect from heat and direct sunlight.

7.3. Specific end use(s)
Recommendation:
No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	**dimethyl ether** CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,910 mg/m³)
MAK (AT)	**dimethyl ether** CAS No.: 115-10-6 EC No.: 204-065-8	② 2,000 ppm (3,820 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
IOELV (EU)	**dimethyl ether** CAS No.: 115-10-6 EC No.: 204-065-8	① 1,000 ppm (1,920 mg/m³)
MAK (AT)	**Acetone** CAS No.: 67-64-1	② 2,000 ppm (4,800 mg/m³) ⑤ (max. 4x15 min./Schicht)
IOELV (EU)	**Acetone** CAS No.: 67-64-1	① 500 ppm (1,210 mg/m³)
MAK (AT)	**Acetone** CAS No.: 67-64-1	① 500 ppm (1,200 mg/m³)
MAK (AT)	**zinc oxide** CAS No.: 1314-13-2 EC No.: 215-222-5	① 5 mg/m³ ⑤ (alveolengängige Fraktion)
MAK (AT)	**propan-2-ol** CAS No.: 67-63-0 EC No.: 200-661-7	② 800 ppm (2,000 mg/m³) ⑤ (max. 4x15 min./Schicht)
MAK (AT)	**propan-2-ol** CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm (500 mg/m³)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Zinc powder - Zinc dust (stabilised) CAS No.: 7440-66-6 EC No.: 231-175-3	5 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Zinc powder - Zinc dust (stabilised) CAS No.: 7440-66-6 EC No.: 231-175-3	2.5 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
Zinc powder - Zinc dust (stabilised) CAS No.: 7440-66-6 EC No.: 231-175-3	5,000 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Zinc powder - Zinc dust (stabilised) CAS No.: 7440-66-6 EC No.: 231-175-3	5,000 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Zinc powder - Zinc dust (stabilised) CAS No.: 7440-66-6 EC No.: 231-175-3	50 mg/kg bw/day	① DNEL worker ② Long-term - oral, systemic effects
Acetone CAS No.: 67-64-1	1,210 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Acetone CAS No.: 67-64-1	200 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
Acetone CAS No.: 67-64-1	2,420 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
Acetone CAS No.: 67-64-1	186 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Acetone CAS No.: 67-64-1	62 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Acetone CAS No.: 67-64-1	62 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Hydrocarbons, C9, aromatics CAS No.: 128601-23-0 EC No.: 918-668-5	100 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Hydrocarbons, C9, aromatics CAS No.: 128601-23-0 EC No.: 918-668-5	32 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
Hydrocarbons, C9, aromatics CAS No.: 128601-23-0 EC No.: 918-668-5	25 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C9, aromatics CAS No.: 128601-23-0 EC No.: 918-668-5	11 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C9, aromatics CAS No.: 128601-23-0 EC No.: 918-668-5	11 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	77 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	14.8 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	289 mg/m³	① DNEL worker ② Acute - inhalation, local effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	180 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	108 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	1.6 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	5 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	2.5 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	0.5 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	83 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	0.83 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	500 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	89 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	888 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	319 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	26 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
Zinc powder - Zinc dust (stabilised) CAS No.: 7440-66-6 EC No.: 231-175-3	6.1 mg/L	① PNEC aquatic, marine water
Zinc powder - Zinc dust (stabilised) CAS No.: 7440-66-6 EC No.: 231-175-3	52 mg/L	① PNEC sewage treatment plant
Zinc powder - Zinc dust (stabilised) CAS No.: 7440-66-6 EC No.: 231-175-3	118 mg/L	① PNEC sediment, freshwater
Zinc powder - Zinc dust (stabilised) CAS No.: 7440-66-6 EC No.: 231-175-3	56.5 mg/L	① PNEC sediment, marine water
Zinc powder - Zinc dust (stabilised) CAS No.: 7440-66-6 EC No.: 231-175-3	56.6 mg/kg	① PNEC soil
Acetone CAS No.: 67-64-1	1.06 mg/L	① PNEC aquatic, marine water
Acetone CAS No.: 67-64-1	30.4 mg/L	① PNEC sediment, freshwater
Acetone CAS No.: 67-64-1	3.04 mg/L	① PNEC sediment, marine water
Acetone CAS No.: 67-64-1	29.5 mg/kg	① PNEC soil
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	0.327 mg/L	① PNEC aquatic, marine water
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	6.58 mg/L	① PNEC sewage treatment plant
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	12.46 mg/L	① PNEC sediment, freshwater
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	12.46 mg/L	① PNEC sediment, marine water
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	2.31 mg/kg	① PNEC soil

Substance name	PNEC Value	① PNEC type
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	6.1 mg/L	① PNEC aquatic, marine water
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	52 mg/L	① PNEC sewage treatment plant
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	117 mg/L	① PNEC sediment, freshwater
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	56.5 mg/L	① PNEC sediment, marine water
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5	35.6 mg/kg	① PNEC soil

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No further details. See section 7.

8.2.2. Personal protection equipment

Eye/face protection:

Safety goggles (EN-166)

Skin protection:

Hand protection:
Wear gloves for protection against chemicals according to EN 374.
Gloves / solvent resistant
Breakthrough times and swelling properties of the material must be taken into consideration.
Glove material:
The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.
Nitrilkautschuk Recommended material thickness: ≥ 0,5 mm
Permeation time (maximum wear duration):
For continuous contact we recommend gloves with a breakthrough time of at least 240 minutes, with the preference for a breakthrough time greater than 480 minutes. For short term or splash protection we recommend the same. We are aware that suitable gloves offering this protection are not available. In this case, a shorter breakthrough time is permissible, provided the procedures for maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance the gloves give against a chemical substance, as this depends on the exact composition of the material of the gloves. The exact breakthrough time should be checked with the glove manufacturer and adhered to.
Body protection:
Use protective suit. (EN-13034/6
Antistatic, chemical and oil resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688 EN13034-6).

Respiratory protection:

BEI insufficient ventilation Respiratory protection Filter A2/P2

Other protection measures:

General protective and hygienic measures: Keep away from food, drink and animal feed. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Avoid contact with eyes and skin. General ventilation.

8.2.3. Environmental exposure controls

Use a suitable container to prevent environmental pollution.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Aerosol

Colour: grey

Odour: characteristic

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	*not applicable*		② Mixture is not polar/aprotic.
Melting point	*not determined*		
Freezing point	*not determined*		
Initial boiling point and boiling range	-24.8 °C		
Decomposition temperature	*not determined*		
Flash point	-41 °C		
Evaporation rate	*not determined*		
Auto-ignition temperature	465 °C		
Upper/lower flammability or explosive limits	1 – 13 Vol-%		
Vapour pressure	5,000 hPa	20 °C	
Vapour density	*not determined*		
Density	1.042 g/cm³	20 °C	
Relative density	*not determined*		
Bulk density	*not determined*		
Water solubility	*not applicable*		② Not miscible or only slightly miscible.
Partition coefficient: n-octanol/water	*not determined*		
Dynamic viscosity	*not determined*		
Kinematic viscosity	*not determined*		

9.2. Other information

The product is not self-igniting. The product is not explosive, but the formation of explosive vapour/air mixtures is possible. formation of explosive vapour/air mixtures is possible.

9.2.1. Information with regard to physical hazard classes

Explosives:
Not applicable

Flammable gases:
Not applicable

Aerosols:
Not applicable

Oxidizing gases:
Not applicable

Gases under pressure:
Not applicable

Flammable liquids:
Not applicable

Flammable solids:
Not applicable

Self-reactive substances and mixtures:
Not applicable

Pyrophoric liquids:
Not applicable

Pyrophoric solids:
Not applicable

Self-heating substances and mixtures:
Not applicable

Substances or mixtures which, in contact with water, emit flammable gases:
Not applicable

Oxidizing liquids:
Not applicable

Oxidizing solids:
Not applicable

Organic peroxides:
Not applicable

Corrosive to metals:
Not applicable

Desensitised explosives:
Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
No further relevant information available.

10.2. Chemical stability
Thermal decomposition / Conditions to avoid No decomposition when used as directed.

10.3. Possibility of hazardous reactions
No dangerous reactions known.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Zinc powder - Zinc dust (stabilised) CAS No.: 7440-66-6 EC No.: 231-175-3
LD_{50} oral: >2,000 mg/kg (Ratte)
LC_{50} Acute inhalation toxicity (gas): >5.4 ppmV 4 h (Ratte)
Acetone CAS No.: 67-64-1
LD_{50} oral: 5,800 mg/kg (Rat)
LD_{50} dermal: >20 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (gas): >20 ppmV 4 h (Rat)
Hydrocarbons, C9, aromatics CAS No.: 128601-23-0 EC No.: 918-668-5
LD_{50} oral: 3,492 mg/kg (Ratte)
LD_{50} dermal: >3,160 mg/kg (Kaninchen)
LC_{50} Acute inhalation toxicity (gas): >6,193 ppmV 4 h (Ratte)
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0
LD_{50} oral: 3,523 mg/kg (Ratte)
LD_{50} dermal: 12,126 mg/kg (Kaninchen)
LC_{50} Acute inhalation toxicity (gas): 27,124 ppmV 4 h (Ratte)
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5
LD_{50} oral: >5,000 mg/kg (Rat)
LD_{50} dermal: >2,000 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (gas): >5,700 ppmV 4 h (Rat)

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LD_{50} oral: 5,280 mg/kg (Ratte)
LD_{50} dermal: >2,000 mg/kg (Kaninchen)
LC_{50} Acute inhalation toxicity (gas): >25 ppmV 4 h (Ratte)
LC_{50} Acute inhalation toxicity (vapour): 47.5 mg/L 4 h (Rat)

Acute oral toxicity:
Based on available data, the classification criteria are not met.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Based on available data, the classification criteria are not met.

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:
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 are included.

SECTION 12: Ecological information

12.1. Toxicity

dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8
LC_{50}: >4,000 mg/L 2 d (daphnia magna)
EC_{50}: 155 mg/L 4 d
Zinc powder - Zinc dust (stabilised) CAS No.: 7440-66-6 EC No.: 231-175-3
LC_{50}: 0.17 mg/L 4 d (Oncorhynchus mykiss)
EC_{50}: 0.41 mg/L 2 d (Daphnia magna)
NOEC: 0.017 mg/L 3 d (Pseudokirchneriella subcapitata)
Acetone CAS No.: 67-64-1
EC_{50}: 8,800 mg/L (crustaceans, Daphnia magna)
EC_{50}: 8,300 mg/L (fish)
EC_{50}: 8,800 mg/L (Daphnia magna)
LC_{50}: 8,300 mg/L 4 d
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0
LC_{50}: 8.9 – 16.4 mg/L 4 d (fish, Pimephales promelas)
EC_{50}: 3.2 – 9.5 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: 0.44 mg/L 3 d (Algae/water plant)

zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5
LC_{50}: 1.1 mg/L 4 d (fish, Oncorhynchus mykiss)
IC_{50}: 1.85 mg/L 4 d (Algae/water plant, Skeletonema costatum)
IC_{50}: 1.85 mg/L 4 d (Algae/water plant, Skeletonema costatum)
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LC_{50}: 9,640 mg/L 4 d (fish, Pimephales promelas)
LC_{50}: >1,000 mg/L 4 d (fish)
LC_{50}: 10,000 mg/L (fish)
EC_{50}: >100 mg/L (Algae/water plant)
EC_{50}: >100 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: >1,000 mg/L 2 d (crustaceans)
ErC_{50}: >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
LOEC: 1,000 mg/L (Algae/water plant, Algae)

12.2. Persistence and degradability

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Biodegradation: Yes, rapidly

Biodegradation:
Not readily biodegradable.

12.3. Bioaccumulative potential

zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5
Bioconcentration factor (BCF): 28,960
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Log K_{OW}: 0.05

Accumulation / Evaluation:
No further relevant information available.

12.4. Mobility in soil
No further relevant information available.

12.5. Results of PBT and vPvB assessment

dimethyl ether CAS No.: 115-10-6 EC No.: 204-065-8
Results of PBT and vPvB assessment: —
Zinc powder - Zinc dust (stabilised) CAS No.: 7440-66-6 EC No.: 231-175-3
Results of PBT and vPvB assessment: —
Acetone CAS No.: 67-64-1
Results of PBT and vPvB assessment: —
Hydrocarbons, C9, aromatics CAS No.: 128601-23-0 EC No.: 918-668-5
Results of PBT and vPvB assessment: —
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0
Results of PBT and vPvB assessment: —
zinc oxide CAS No.: 1314-13-2 EC No.: 215-222-5
Results of PBT and vPvB assessment: —
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
Results of PBT and vPvB assessment: —

The product does not meet the PBT/vPvB criteria.

12.6. Endocrine disrupting properties
The product does not contain any substances with endocrine-disrupting properties.

12.7. Other adverse effects
Very toxic to aquatic life.
Toxic to fish.

Do not allow to enter into surface water or drains.
Drinking water hazard even when small quantities leak into the subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Must not be disposed of together with household waste.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Directive 2008/98/EC (Waste Framework Directive)

HP 3	Flammable
HP 4	Irritant — skin irritation and eye damage
HP 14	Ecotoxic

Waste treatment options

Other disposal recommendations:

Uncleaned packaging: Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS, ENVIRONMENTALLY HAZARDOUS	AEROSOLS, ENVIRONMENTALLY HAZARDOUS	AEROSOLS, MARINE POLLUTANT	AEROSOLS, flammable
14.3. Transport hazard class(es)			
 2.1	No data available	 2.1	 2.1
14.4. Packing group			
		-	
14.5. Environmental hazards			
	No data available	 MARINE POLLUTANT	No data available
14.6. Special precautions for user			
Special Provisions: 190 | 327 | 344 | 625 **Limited quantity (LQ):** 1L **Classification code:** 5F **Tunnel restriction code:** (D) **Remark:** Attention: Gases	**Special Provisions:** 190 | 327 | 344 | 625 **Limited quantity (LQ):** 1L **Classification code:** 5F **Remark:** Attention: Gases	**Special Provisions:** 63 | 190 | 277 | 327 | 344 | 381 | 959 **Limited quantity (LQ):** 1L **Excepted Quantities (EQ):** E0 **EmS-No.:** F-D,S-U **Remark:** Attention: Gases	**Remark:** Attention: Gases

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

Directive 2012/18/EU
Named dangerous substances - ANNEX I: None of the ingredients are included.

Restrictions on use:

Regulation (EC) No 1907/2006 ANNEX XVII: Restriction conditions: 3
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 are included.
Regulation (EU) 2019/1148
Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): None of the ingredients are included.
Annex II - EXPLOSIVES REPORTABLE FOR EXPLOSIVES: Acetone
Regulation (EC) No 273/2004 on drug precursors: Acetone
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: Acetone

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:
• P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids
• E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 671.1 g/L

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
IC_{50}	Inhibition Concentration 50 %
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
KG	body weight
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%

MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds
ZNS	central nervous system

16.3. Key literature references and sources for data
No data available

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Hazardous to the aquatic environment *(Aquatic Acute 1)*	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment *(Aquatic Chronic 1)*	H410: Very toxic to aquatic life with long lasting effects.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
STOT-single exposure *(STOT SE 3)*	H336: May cause drowsiness or dizziness.	
Aerosols *(Aerosol 1)*	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
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.
H411	Toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

16.6. Training advice
No data available

16.7. Additional information
No data available