SAFETY DATA SHEET

This safety data sheet has been prepared in accordance with the following requirements:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

M-ONE ZINKSPRAY HELL
Replaces date 05-Aug-2025

Revised on May 27, 2025
Revision number 1

SECTION 1: Identification of the substance or mixture and of the company

1.1. Product identifier

Product name M-ONE ZINKSPRAY HELL

Other names

Pure substance/mixture Mixture

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

Recommended use Paint, aerosol

Uses of which will None known. discouraged

1.3. Details of the supplier providing the safety data sheet

Company name
M ONE
At Kapellenberg 11
97246 Eibelstadt
Tel: +49 9366 90710

Email address info@m-one.net

1.4. Emergency number

Deutschland GGIZ Erfurt's 24-hour emergency number: +49-361-730730

SECTION 2: Potential Hazards

2.1. Classification of the substance or mixture

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

Aerosols	Category 1 - (H222, H229)
Skin irritation	Category 2 - (H315)
Eye irritation	Category 2 - (H319)
Specific target organ toxicity (single exposure)	Category 3 - (H335, H336)
Category 3 Effects on target organ: Irritation of the respiratory tract, anesthetic effects.	
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Danger of aspiration	Category 1 - (H304)
Hazardous to water - chronic	Category 2 - (H411)

2.2. Marking elements

Contains acetone; xylene (reaction mass of ethylbenzene and xylene); Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic; Hydrocarbons, C9, aromatics



Signal word
Danger

Danger warnings
H222 - Extremely flammable aerosol.
H229 - Container is pressurized: May burst if heated.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H336 - 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.

Safety instructions - Regulation (EC) §28, No. 1272/2008
P101 - If medical advice is required, have container or label at hand
P102 - Keep out of reach of children
P210 - Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Don't smoke
P211 - Do not spray on an open flame or other source of ignition
P251 - Do not puncture or burn, even after use
P260 - Do not breathe dust, smoke, gas, mist, vapor or aerosol
P271 - Use only outdoors or in well-ventilated areas
P273 - Avoid release to the environment
P280 - Wear protective gloves, eye protection and face protection
P391 - Collect spills
P405 - Keep locked up
P410 + P412 - Protect from direct sunlight. Do not expose to temperatures above 50°C/122°F
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Possibly Remove existing contact lenses if possible. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention
P501 - Dispose of contents/container to an approved waste disposal facility

Further information This product requires delivery to the general public
tactile warnings.

2.3. Other dangers

Formation of explosive/highly flammable mixtures is possible if there is insufficient ventilation or through use. Toxic for aquatic organisms.

PBT & vPvB
The components of this formulation do not meet the criteria for classification as a PBT or vPvB substance.
Endocrine information This product does not contain any known or suspected endocrine disruptors.
Disturbance

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

Chemical Designation	Weight%	REACH registration serial number	EC no. (index-Nr.)	Classification according to Regulation (EC) Nr. 1272/2008 [CLP]	More specific concentration nslimit (SCL):	M factor	M factor (long term g)	Notice e
Acetone 67-64-1	20 - <25	01-2119471330-49-XXXX	200-662-2 (606-001-00-8)	Eye irritation. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)	-	-	-	-
Xylene (reaction mass out ethylbenzene and Xylol) RR-45541-4	10 - <20	01-2119488216-32-xxxx	905-588-0	Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin irritation. 2 (H315) Eye irritation. 2 (H319) STOT SE 3 (H335) STOT RE 2 (H373) Asp. Tox. 1 (H304) Aquatic Chronic 3 (H412) Flam. Liq. 3 (H226)	-	-	-	-
Dimethylether 115-10-6	10 - <20	01-2119472128-37-XXXX	204-065-8 (603-019-00-8)	Flam. Gas 1 (H220) Press. Gas (H280)	-	-	-	U
hydrocarbons, C7, n-alkanes, Isoalkanes, cyclic RR-100219-3	10 - <20	01-2119475515-33-xxxx	927-510-4	STOT SE 3 (H336) Asp. Tox. 1 (H304) Skin irritation. 2 (H315) Aquatic Chronic 2 (H411) Flam. Liq. 2 (H225)	-	-	-	-
n-butane 106-97-8	5 - <10	01-2119474691-32-XXXX	203-448-7 (601-004-00-0)	Flam. Gas 1 (H220) Press. Gas (H280)	-	-	-	C,U
hydrocarbons, C9, Aromaten --	5 - <10	01-2119455851-35-XXXX	918-668-5	STOT SE 3 (H335) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226) (EUH066)	-	-	-	-
Isobutane 75-28-5	5 - <10	01-2119485395-27-XXXX	200-857-2 (601-004-00-0)	Flam. Gas 1 (H220) Press. Gas (H280)	-	-	-	C,U
Zinc 7440-66-6	1 - <5	01-2119467174-37-xxxx	231-175-3 (030-001-01-9) (030-001-00-1)	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	1	1	T
Aluminum 7429-90-5	1 - <5	01-2119529243-45-xxxx	231-072-3 (013-002-00-1)	Flam. Sol. 1 (H228) Water react. 2 (H261)	-	-	-	T

Substances marked with a number starting with ·RR-· in the CAS field are substances for which no CAS number is used. We use an internal numbering system for this in our SDB software

Note C - Some organic substances can exist either in a well-defined isomeric form or as a mixture several isomers are placed on the market. In this case, the supplier must indicate on the identification label whether it is a specific isomer or a mixture of isomers.
Note T - This substance may be placed on the market in a form that does not reflect the physical properties as specified in the classification entry in Part 3. If the results of the relevant method(s) are in accordance with Regulation (EC) No. 440/2008 show that the relevant form of the substance placed on the market has these physical properties

does not have any property(s), the substance is to be classified according to the results of this test(s). Into that
The relevant information must be included in the safety data sheet, including the mention of the relevant information

Test method/s. Note U - When placed on the market, the gases must be classified as ·gases under pressure· in one of the groups of Compressed gases, liquefied gases, refrigerated gases or dissolved gases can be classified. The
Assignment to a group depends on the physical state in which the gas is packaged and must therefore depend on the case case to be decided.
The following codes are assigned: Press. Gas (Comp.), Press. Gas (Liq.), Press. Gas (Ref. Liq.), Press. Gas (Diss.).
Aerosols may not be classified as gases under pressure (see Annex I, Part 2, Section 2.3.2.1, Note 2).

For the wording of the H and EUH phrases see section 16

Estimation of acute toxicity
If LD50/LC50 data is not available or does not correspond to the classification category, the appropriate Conversion value from CLP Annex I, Table 3.1.2 used to calculate the Acute Toxicity Estimate (ATEmix) for classification of a mixture based on its components

Chemical Designation	EC no. (index-Nr.)	CAS no.	Oral LD 50 mg/kg	Dermal LD50 mg/kg	Inhale LC50 - 4 h - Dust/Fog - mg/l	Inhale LC50 - 4 h - Steam - mg/l	Inhale LC50 - 4 h - Gas - ppm
Acetone	200-662-2 (606-001-00-8)	67-64-1	5800	-	-	-	-
Xylene (reaction mass from ethylbenzene and Xylol)	905-588-0	RR-45541-4	3523	1100	-	11	-
Dimethylether	204-065-8 (603-019-00-8)	115-10-6	-	-	-	-	-
hydrocarbons, C7, n-alkanes, Isoalkanes, cyclic	927-510-4	RR-100219-3	-	-	-	-	-
n-butane	203-448-7 (601-004-00-0)	106-97-8	-	-	-	-	-
hydrocarbons, C9, Aromaten	918-668-5	--	-	-	-	-	-
Isobutane	200-857-2 (601-004-00-0)	75-28-5	-	-	-	-	-
Zinc	231-175-3 (030-001-01-9) (030-001-00-1)	7440-66-6	-	-	-	-	-
Aluminum	231-072-3 (013-002-00-1)	7429-90-5	-	-	0.8889	-	-

This product does not contain substances of very high concern (SVHC) on the candidate list at a concentration of >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1 Description of first aid measures

General recommendation This safety data sheet must be shown to the attending physician. Immediate medical treatment is required.

Inhale Get some fresh air. Aspiration into the lungs can cause serious complications lead to lung damage. If breathing stops, administer artificial respiration. Medical Call in help. Avoid direct contact with skin. At
Use protection against contact when performing mouth-to-mouth resuscitation. If you have difficulty breathing (trained personnel should) administer oxygen. Pulmonary edema may be delayed occur.

Eye contact	Rinse immediately thoroughly with plenty of water for at least 15 minutes, including under the skin eyelids. If possible, remove any contact lenses. Next rinse out. Keep eyes wide open while rinsing. Affected area don't rub. If irritation occurs and persists, consult a doctor.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. At If persistent irritation occurs, consult a doctor.
Swallowed	DO NOT induce vomiting. Rinse mouth. Never to an unconscious person give water. IF SWALLOWED, THERE IS ASPIRATION HAZARD - CAN REACH THE LUNGS AND CAUSE DAMAGE. When spontaneous Vomit Keep head below hips to prevent aspiration. Immediately seek medical advice/attention.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical staff are aware of the is informed about the substance(s) involved, takes measures to protect himself and a Spread of contamination is avoided. Wear personal protective clothing (see Section 8). Avoid direct contact with skin. At Use protection against contact when performing mouth-to-mouth resuscitation. Prescribed ones Use personal protective equipment. Contact with skin, eyes and clothing avoid.

4.2. Most important acute and delayed symptoms and effects

Symptoms	Difficulty breathing. Coughing and/or wheezing. Lightheadedness. May cause redness and cause watery eyes. Burning sensation. Inhaling high concentrations of vapor can Cause headache, dizziness, drowsiness, nausea and vomiting.
Effects upon exposure	May cause damage to organs through prolonged or repeated exposure.

4.3. Indications of immediate medical attention or special treatment

Note to the doctor	Because of the risk of aspiration, no vomiting and no gastric lavage should be performed be carried out if the risk is not posed by the danger of further toxic substances is justified.

SECTION 5: Firefighting measures

5.1. Extinguishing agent

Suitable extinguishing agents	Dry extinguishing agent. Carbon dioxide (CO_2). Spray water.
Unsuitable extinguishing agents	Full water jet. ONLY EXTINGUISH A FIRE CAUSED BY LEAKING GAS IF LEAKAGE CAN BE STOPPED.

5.2. Special hazards arising from the substance or mixture

Special dangers arising from the risk of inflammation. Keep product and empty container away from heat and sources of ignition. Run out of substance In the event of fire, cool containers with water spray. Fire residues and contaminated fire extinguishing water must disposed of in accordance with local regulations. Gas cylinders can break in extreme heat. Handling more damaged

Pressure bottles only by professionals. Containers may explode when heated.

Dangerous combustion products Carbon oxides. Carbon monoxide. Carbon dioxide (CO_2). Hydrocarbons. Aldehydes.

5.3. Advice for firefighting

Special protective equipment and fire crews must wear self-contained breathing apparatus and complete

Precautions for Firefighting	Wear emergency clothing. Use personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions	Evacuate employees to safe areas. Mandatory personal Use protective equipment. For more information, see Section 8. Touch avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep people away from the spill/leak send to the windward side. REMOVE all sources of ignition (no smoking, no Sparks or flames in the immediate surrounding area). Measures against meet electrostatic charges. Inhale from Avoid dust/smoke/gas/mist/steam/aerosol.
Other information	Ventilate the area. See safeguards listed in Sections 7 and 8.
emergency services	Use personal protective equipment recommended in Section 8.

6.2. Environmental protection measures

Environmental protection measures	See safeguards listed in Sections 7 and 8. If gefahrlos möglich weitere Leckagen oder Verschütten vermeiden. Not in that Allow access to sewers or waterways.

6.3. Methods and materials for containment and cleaning up

Methods for restraint	Stop the leak if it is safe to do so. Can be used to reduce fumes a vapor suppressing foam can be used. Spills over a wide area Dam to catch runoff water. Not in drains, sewers, ditches and allow water to enter. Flood with water to complete polymerization and then scrape it off the floor.
Cleaning procedure	Take measures against electrostatic charges. Contain. With inert, absorbent material. Record and place in appropriately marked areas Transfer container.

Avoiding secondary hazards Contaminated objects and surfaces in compliance with environmental regulations clean thoroughly.

6.4. Reference to other sections

Reference to other sections	For more information, see Section 8. For more information, see Section 13.

SECTION 7: Handling and storage

7.1. Protective measures for safe handling

Instructions for safe handling	Use personal protective equipment. From heat, hot surfaces, sparks, Keep away from open flames and other sources of ignition. Do not smoke. Not against spray onto an open flame or other source of ignition. Measures to avoid one electrostatic discharge (which can cause organic vapors to ignite) company. Use spark-proof tools and explosion-proof equipment. Only handle the product in a closed system or with sufficient suction provide. Store in areas where a sprinkler system is installed. Do not open or burn cans. Content is under pressure. In case of a break. Avoid breathing vapors or mist. With good work hygiene and Handle safety technology. Avoid contact with skin, eyes and clothing. At Do not eat, drink or smoke. Take off contaminated clothing and put it in front of you Wash before wearing. If ventilation is inadequate, wear breathing apparatus.
General hygiene regulations	Do not eat, drink or smoke when using. Do not contaminated work clothing wear outside the workplace. Regular cleaning of equipment work area and clothing is recommended. Hands before breaks and immediately wash after handling the product. Suitable for work Wear protective gloves and safety glasses/face protection. Contact with skin, eyes and avoid clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Protect from sunlight. From heat, sparks, flames and others

	Keep sources of ignition away (i.e. pilot lights, electric motors and static electricity). Store in correctly labeled containers. Not near combustibles
	Store materials. Store in areas where a sprinkler system is installed is. Store in accordance with specific national regulations. According to local Store regulations. Store in a cool, dry area, away from potential heat sources, open flames, direct sunlight or other chemicals. Store under lock and key. Must not fall into the hands of children reach. Store away from other materials. Only in Keep/store original container. In a closed container on one store in a dry place.

7.3. Specific end uses

Specific uses
Paint, aerosol.

Risk management measures (RMM) The required information is contained in this safety data sheet.

Other information Please note the technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Parameters to monitor

Exposure limits

Chemical name	European Union	Germany TRGS
Acetone 67-64-1	TWA: 500 ppm; TWA: 1210 mg/m3;	TWA-AGW; 500 ppm (exposure factor 2); TWA-AGW; 1200 mg/m3 (exposure factor 2);
Xylene (reaction mass of ethylbenzene and xylene) RR-45541-4	TWA: 50 ppm TWA: 221 mg/m3 STEL: 100ppm STEL: 442 mg/m3 S*	AGW: 50 ppm exposure factor 2 AGW: 220 mg/m3 exposure factor 2 H*
Dimethyl ether 115-10-6	TWA: 1000 ppm; TWA: 1920 mg/m3;	TWA-AGW; 1000 ppm (exposure factor 8) TWA-AGW; 1900 mg/m3 (exposure factor 8);
Propane 74-98-6	-	TWA-AGW; 1000 ppm (exposure factor 4) TWA-AGW; 1800 mg/m3 (exposure factor 4);
n-butane 106-97-8	-	TWA-AGW; 1000 ppm (exposure factor 4) TWA-AGW; 2400 mg/m3 (exposure factor 4);
Hydrocarbons, C9, aromatics --	THREE: 100 mg/m3	
Isobutane 75-28-5	-	TWA-AGW; 1000 ppm (exposure factor 4) TWA-AGW; 2400 mg/m3 (exposure factor 4);
Aluminum 7429-90-5	-	TWA-AGW; 1.25 mg/m3 (exposure factor 2); respirable fraction TWA-AGW; 10 mg/m3 (exposure factor 2); inhalable fraction
Ethanol 64-17-5	-	TWA-AGW; 200 ppm (exposure factor 4); TWA-AGW; 380 mg/m3 (exposure factor 4);

Biological workplace limits

Chemical name	European Union	Germany TRGS
Acetone 67-64-1	-	50 mg/L (urine - Acetone end of exposure or shift)
Xylene (reaction mass of ethylbenzene and xylene) RR-45541-4	-	BGW:2000 mg/l Parameters: Methylhippuric(tolur-)acid (all isomers) U

Aluminum 7429-90-5	-	50 µg/g Creatinine (urine - Aluminum at the end of the shift, in case of long-term exposure after several previous shifts)

Derived exposure level without impairment. No information is available (DNEL)

Derived exposure level without impairment (DNEL)			
Acetone (67-64-1)			
Type	Route of exposure	Derived exposure level without impairment (DNEL)	Safety factor
Long term Systemic effects on the Health workers	Dermal	186 mg/kg body weight/day	
Short lasting Local effects on the Health workers	Inhale	2420 mg/m³	
Long term Systemic effects on the Health workers	Inhale	1210 mg/m³	

Xylene (reaction mass of ethylbenzene and xylene) (RR-45541-4)			
Type	Route of exposure	Derived exposure level without impairment (DNEL)	Safety factor
workers Long term Systemic effects on the Health	Inhale	221 mg/m³	
workers Long term Local effects on the Health	Inhale	221 mg/m³	
workers Short lasting Local effects on the Health	Inhale	442 mg/m³	
workers Long term Systemic effects on the Health	Dermal	212 mg/kg body weight/day	

Dimethyl ether (115-10-6)			
Type	Route of exposure	Derived exposure level without impairment (DNEL)	Safety factor
workers Long term Systemic effects on the Health	Inhale	1894 mg/m³	

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic (RR-100219-3)

Type	Route of exposure	Derived exposure level without impairment (DNEL)	Safety factor
workers Long term Systemic effects on the Health	Inhale	2085 mg/m³	
workers Long term Systemic effects on the Health	Dermal	300 mg/kg body weight/day	

Hydrocarbons, C9, aromatics (--)			
Type	Route of exposure	Derived exposure level without impairment (DNEL)	Safety factor
workers Long term Systemic effects on the Health	Dermal	12.5 mg/kg Body weight/day	
workers Long term Systemic effects on the Health	Inhale	150 mg/m³	

Zink (7440-66-6)			
Type	Route of exposure	Derived exposure level without impairment (DNEL)	Safety factor
workers Long term Systemic effects on the Health	Inhale	5 mg/m³	
workers Long term Systemic effects on the Health	Dermal	83 mg/kg body weight/day	

Derived exposure level without impairment (DNEL)			
Acetone (67-64-1)			
Type	Route of exposure	Derived exposure level without impairment (DNEL)	Safety factor
Consumer Long term Systemic effects on the Health	Inhale	200 mg/m³	
Consumer Long term Systemic effects on the Health	Dermal	62 mg/kg body weight/day	

Consumer Long term Systemic effects on the Health	Orally	62 mg/kg body weight/day	

Xylene (reaction mass of ethylbenzene and xylene) (RR-45541-4)

Type	Route of exposure	Derived exposure level without impairment (DNEL)	Safety factor
Consumer Long term Systemic effects on the Health	Inhale	65.3 mg/m³	
Consumer Short lasting Systemic effects on the Health	Inhale	260 mg/m³	
Consumer Long term Local effects on the Health	Inhale	65.3 mg/m³	
Consumer Short lasting Local effects on the Health	Inhale	260 mg/m³	
Consumer Long term Systemic effects on the Health	Dermal	125 mg/kg body weight/day	
Consumer Long term Systemic effects on the Health	Orally	12.5 mg/kg Body weight/day	

Dimethyl ether (115-10-6)

Type	Route of exposure	Derived exposure level without impairment (DNEL)	Safety factor
Consumer Long term Systemic effects on the Health	Inhale	471 mg/m³	

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic (RR-100219-3)

Type	Route of exposure	Derived exposure level without impairment (DNEL)	Safety factor
Consumer Long term Systemic effects on the Health	Inhale	447 mg/m³	
Consumer Long term Systemic effects on the Health	Dermal	149 mg/kg body weight/day	

Consumer Long term Systemic effects on the Health	Orally	149 mg/kg body weight/day	

Hydrocarbons, C9, aromatics (--)			
Type	Route of exposure	Derived exposure level without impairment (DNEL)	Safety factor
Consumer Long term	Dermal	7.5 mg/kg body weight/day	
Systemic effects on the Health			
Consumer Long term Systemic effects on the Health	Inhale	32 mg/m³	

Zink (7440-66-6)			
Type	Route of exposure	Derived exposure level without impairment (DNEL)	Safety factor
Consumer Long term Systemic effects on the Health	Inhale	2.5 mg/m³	
Consumer Long term Systemic effects on the Health	Dermal	83 mg/kg body weight/day	
Consumer Long term Systemic effects on the Health	Orally	0.83 mg/kg Body weight/day	

Estimated No-effect concentration (PNEC) No information is available.

Estimated No Effect Concentration (PNEC)	
Acetone (67-64-1)	
Environmental compartment	Estimated No Effect Concentration (PNEC)
Fresh water	10.6 mg/l
Fresh water - intermittently	21 mg/l
Sea water	1.06 mg/l
Microorganisms in sewage treatment plants	100 mg/l
freshwater sediment	30.4 mg/kg dry weight
Sea water	3.04 mg/kg dry weight
floor	29.5 mg/kg dry weight

Xylene (reaction mass of ethylbenzene and xylene) (RR-45541-4)	
Environmental compartment	Estimated No Effect Concentration (PNEC)
Fresh water	0.327 mg/l
Sea water	0.327 mg/l
Microorganisms in sewage treatment plants	6.58 mg/l

freshwater sediment	12.46 mg/kg dry weight
floor	2.31 mg/kg dry weight

Dimethyl ether (115-10-6)	
Environmental compartment	Estimated No Effect Concentration (PNEC)
Fresh water	0.155 mg/l
Sea water	0.016 mg/l
Microorganisms in sewage treatment plants	160 mg/l
freshwater sediment	0.681 mg/kg dry weight
floor	0.45 mg/kg dry weight

Zink (7440-66-6)	
Environmental compartment	Estimated No Effect Concentration (PNEC)
Fresh water	20.6 µg/l
Sea water	6.1 µg/l
Sewage treatment plant	100 µg/l
freshwater sediment	235.6 mg/kg
Seawater sediment	121 mg/kg dry weight
floor	106.8 mg/kg dry weight

8.2. Limiting and monitoring exposure

Technical Control devices Ensure adequate ventilation, especially in enclosed spaces. vapors / Aerosols must be safely extracted directly at the point of origin.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Eye protection must be the norm Correspond to DIN EN 166.

Hand protection Wear suitable protective gloves. Thickness of gloves > 0.7mm. Butyl rubber. Nitrile rubber. The breakthrough times for the specified glove materials are in generally greater than 480 minutes. Ensure that the breakthrough time of the Glove material is not exceeded. Information from the supplier Use breakthrough time for the specific gloves.

Recommendations Gloves must comply with the EN 374 standard

Skin and body protection Personal protective clothing suitable to protect against contact with skin wear.

Respiratory protection Ensure adequate ventilation when spraying. In case of insufficient ventilation Put on breathing apparatus.

Recommended filter type: Filter for organic gases and vapors according to EN 14387. Respiratory mask according to EN 140 Wear with filter type A or better.

Limitation and monitoring of No information is available.

Environmental exposure

SECTION 9: Physical and chemical properties

9.1. Information on the basic physical and chemical properties

Physical condition liquid

Appearance Aerosol

color Silver

smell Solvent.

property	**Values**	**Remarks · Method**
Melting point / freezing point	No data available	None known
Start of boiling point and boiling range	.	Not applicable, aerosol
Inflammability	No data available	None known
Flammability limit in the Luft		None known

Upper flammability or Explosion limit	No data available	
Lower flammability or Explosion limit	No data available	
Flash point	No data available	Not applicable, aerosol
Auto-ignition temperature	>200°C	None known
Decomposition temperature		None known
pH value	No data available	Not applicable. Insoluble in water.
pH (as an aqueous solution)	No data available	None known
Viscosity, kinematic	No data available	None known
Dynamic viscosity	No data available	
Water solubility	Insoluble in water.	None known
solubility(ies)	No data available	None known
distribution coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Liquid density	0.70 - 0.78 g/cm³	
Relative vapor density	No data available	None known
Particle properties		
particle size	No information is available	
Particle size distribution	No information is available	

9.2. Other information

Solids content (%) 0 volatile organic compound content
approximately 650.6 g/L

9.2.1. Information on physical hazard classes Not applicable

9.2.2. Other security features
No information is available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information is available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

sensitivity to mechanical impact sensitivity versus Yes. static discharge None.

10.3. Possibility of dangerous reactions

Possibility of dangerous Reactions Heating leads to an increase in pressure and the risk of bursting.

10.4. Conditions to avoid

Conditions to avoid Heat, sparks and flames. From open flames, hot surfaces and Keep ignition sources away. Extreme temperatures and direct sunlight.

Incompatible materials Strong acids. Strong alkalis. Strong oxidizing agents. Incompatible with oxidizing agents.

10.6. Dangerous decomposition products

Hazardous decomposition products None known under normal conditions of use. Stable at the recommended Storage conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes according to Regulation (EC) No. 1272/2008

Information on likely routes of exposure

Product information

Inhale Intentional misuse through concentration and inhalation of the ingredients can occur be harmful or fatal. Specific experimental data for the substance or mixture are not available. Aspiration into the lungs can cause serious lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. Can become one Cause irritation of the respiratory tract. May cause drowsiness and dizziness.

Eye contact Specific test data for the substance or mixture are not available. Can cause irritation. Causes serious eye irritation. (based on the components). May cause redness, itching and pain.

Skin contact Repeated exposure may cause dry or cracked skin. Specific Test data for the substance or mixture are not available. Caused Skin irritation. (based on components).

Swallowed Specific test data for the substance or mixture are not available. At There is a risk of aspiration if swallowed. May cause lung damage if swallowed cause. Aspiration can cause pulmonary edema and pneumonitis. Can can be fatal if swallowed and enters the respiratory tract. May be swallowed gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological properties

Symptoms Difficulty breathing. Coughing and/or wheezing. Lightheadedness. Redness. May cause redness and cause watery eyes. Inhaling high concentrations of vapor can cause headaches, Cause dizziness, drowsiness, nausea and vomiting.

Acute toxicity

Toxicity index

The following ATE values ··were calculated for the mixture

ATEmix (oral)	>2000 mg/kg
ATEmix (dermal)	7,111.70 mg/kg
ATEmix (Inhale from gas)	>20000 ppm
ATEmix (Inhale from dust/fog)	>5 mg/l
ATEmix (Inhale from steaming)	122.80 mg/l

Information about the components

Chemical Designation	LD50 orally	LD50 dermal	LC50 Inhale

Acetone	=5800 mg/kg (Rattus) 3000 mg/kg (mouse)	>15800 mg/kg (Rattus)	=79 mg/l(Rattus) 4 hours
Xylene (reaction mass from ethylbenzene and xylene)	=3500 mg/kg (Rattus)	>10000 mg/kg (Oryctolagus cuniculus) 1100 mg/kg (Rattus)	=>11 mg/L (Rattus) 4 hrs
Dimethylether	-	-	=164000 ppm (Rattus) 4 hrs
hydrocarbons, C7, n-alkanes, Isoalkanes, cyclic	LD50 >5840 mg/kg Rat	LD50 >2920 mg/kg (Rattus)	LC50 >23.3 mg/L (4h)(Advice, vapor) (OECD 403)
n-butane	-	-	=658 g/m3 (Rattus) 4 hrs
hydrocarbons, C9, Aromaten	3592 mg/kg (Rattus) (OECD 401)	>3160 mg/kg (Oryctolagus cuniculus) (OECD 402)	4hours >6193 mg/m3 (Rattus)
Isobutane	-	-	=658 mg/L (Rattus) 4 hrs
Zinc	LD50 >2000 mg/kg (Rattus) (OECD 401)	-	LC50 (4h)> 5.41 mg/kg Dust (Rattus) (OECD 403)
Aluminum	-	-	> 0.888888 mg/L (advice) 4 h

Delayed and immediate effects as well as chronic effects after short or long duration Exposure

Corrosion/irritation to skin Classification is based on the data available for the ingredients. Caused Skin irritation.

Severe classification is based on available data for the ingredients. Causes seriousness Eye damage/eye irritation Eye irritation.

Acetone (67-64-1)					
Method	**species**	**Route of exposure**	**Effective dose**	**Exposure time**	**Results**
OECD test no. 405: Acute Eye irritation/corrosion	Rabbit	eyes			irritant

Respiratory sensitization Based on available data, the classification criteria are not met. or the skin

Acetone (67-64-1)			
Method	species	Route of exposure	Results
GPMT - Guinea pig maximization test	Guinea pig	Dermal	Not a skin allergen

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

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

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

STOT - single exposure May irritate the respiratory tract. May cause drowsiness and dizziness cause.

Acetone (67-64-1)					
Method	**species**	**Route of exposure**	**Effective dose**	**Exposure time**	**Results**
Experiences from the Practice					Stunning Effects

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Acetone (67-64-1)					
Method	**species**	**Route of exposure**	**Effective dose**	**Exposure time**	**Results**
OECD test no. 408:90-Day toxicity study Repeated oral administration to rodents	Rat	Orally	200-3400 mg/kg Body weight/day	91 days	dose without observable harmful effect LOAEL 1700 mg/kg Body weight/day
Not specified	Rat	Inhale	19000 ppm	14, 28, 56 days	NOAEC 19000 ppm Dose without observable harmful Effect

Danger of aspiration May be fatal if swallowed and enters airways.

11.2. Information about other hazards

11.2.1. Endocrine disrupting properties

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

11.2.2. Other information

Other adverse effects No information is available.

SECTION 12: Ecological information

12.1. toxicity

Ecotoxicity Toxic to aquatic organisms with long lasting effects.

Chemical Designation	Algae/water replenishment ances	Fish	Toxicity opposite microorganisms n	Crustaceans	M factor	M factor (long term)
Acetone 67-64-1	-	LC50 96h 4.74 - 6.33mL/L (Oncorhynchus mykiss)	EC50 = 14500 mg/L 15 min	EC50 48h 10294 - 17704 mg/L (Daphnia magna static)		
Xylene (reaction mass from ethylbenzene and Xylol) RR-45541-4	EC50 (72hr) 2.2 mg/l (Selenastrum capricornutum)	LC50(96h) 2.6 mg/l (Oncorhynchus mykiss OECD 203)	EC50 = 0.0084 mg/L 24 h	LC50(24h) 1 mg/l (Daphnia magna-OECD 202)		
Dimethylether 115-10-6	-	LC50: >4.1g/L (96h, Poecilia reticulata)	-	> 4400 mg/L (Daphnia) (NEN 6501)		
hydrocarbons, C7, n-alkanes, Isoalkanes, cyclic RR-100219-3	ErL50 (72h) = 10-30 mg/L (Pseudokirchneriella subcapitata)	LL50 (96h) >13.4 mg/L (Oncorhynchus mykiss) OECD 203	-	EL50 (48h) = 3.0 mg/L (Daphnia magna)		
hydrocarbons, C9, Aromaten --	EL50 (72h): 2.6 - 2.9 mg/L (Pseudokirchneriella subcapitata)	LL50 (96h): 9.2 mg/L (Oncorhynchus mykiss)	-	EL50 (48h): 3.2 mg/L (Daphnia magna) OECD 202		
Zinc 7440-66-6	EC50: 0.09 - 0.125mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =0.24mg/L (96h, Oncorhynchus mykiss)	-	EC50: 0.139 - 0.908mg/L (48h, Daphnia magna)	1	1

12.2. Persistence and degradability

Persistence and degradability No information is available.

Acetone (67-64-1)			
Method	**Exposure time**	**Value**	**Results**
OECD test no. 301B: Lightweight biodegradability: CO2 development test (TG 301 B)	28 days	Biodegradability	91% Slightly organic degradable

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic (RR-100219-3)			
Method	**Exposure time**	**Value**	**Results**
OECD test no. 301F: Lightweight biodegradability: Manometric respiration test (TG 301 F)	28 days	98%	Easily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation

Information about the components

Chemical name	distribution coefficient
Acetone	-0.24

Xylene (reaction mass of ethylbenzene and xylene)	3.15
Dimethylether	-0.18
n-butane	2.31
Isobutane	2.8

12.4. Mobility in the ground

Mobility in the ground No information is available.

12.5. Results of the PBT and vPvB assessment

Results of the PBT and vPvB rating Based on the available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment results
Acetone	No PBT/vPvB
Xylene (reaction mass of ethylbenzene and xylene)	No PBT/vPvB
Dimethylether	No PBT/vPvB
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic	No PBT/vPvB
n-butane	No PBT/vPvB
Isobutane	No PBT/vPvB
Zinc	No PBT/vPvB
Aluminum	No PBT/vPvB

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Other adverse effects No information is available.
PMT or vPvM properties Based on the available data, the classification criteria are not met.

SECTION 13: Disposal considerations

13.1. Waste treatment processes

Waste from residues/not products used Must not be released into the environment. According to local regulations dispose of. Dispose of waste in accordance with environmental regulations.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Containers do not cutting, piercing, or welding.

European waste catalogue 16 05 04* gases containing dangerous substances in pressure vessels (including halons)
15 01 04 Metal packaging

Other information Waste keys must be specified by the user based on the application for which the product was used.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number or ID number UN1950
14.2 Proper UN shipping name COMPRESSED GAS PACKINGS
14.3 Transport hazard classes 2
Markings 2.1
14.4 Packaging group Not regulated
Description UN1950, COMPRESSED GAS PACKINGS, 2, (D), Dangerous for the environment

14.5 Environmental Hazards Yes

14.6 Special precautions for the user

Special regulations	190, 327, 344, 625
Classification code	5F
Tunnel restriction code	(D)
Limited Quantity (LQ)	1 L

IMDG

14.1 UN number or ID number UN1950
14.2 Proper COMPRESSED GAS PACKINGS
UN shipping name
14.3 Transport hazard classes 2.1
14.4 Packaging group Not regulated
Description UN1950, COMPRESSED GAS PACKAGINGS, 2.1, Marine pollutant
14.5 Marine pollutant P
14.6 Special precautions for the user Special instructions
63,190, 277, 327, 344, 381, 959
Limited Quantity (LQ) Lake SP277
EmS no. F-D, S-U
14.7 Transport in bulk
dem sea route according to IMO-instruments
Transport in bulk in accordance with Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number UN1950
14.2 Proper AEROSOLS, FLAMMABLE
UN shipping name
14.3 Transport hazard classes 2.1
14.4 Packaging group Not regulated
Description UN1950, AEROSOLS, FLAMMABLE, 2.1
14.5 Environmental Hazards Yes
14.6 Special precautions for the user

Special regulations	A145, A167, A802
Limited Quantity (LQ)	30kg G
ERG code	10L

SECTION 15: Legislation

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

European Union

Directive on the Registration, Evaluation and Authorization of Chemicals (REACH) (EC 1907/2006)

SVHC: Substance of very high concern for approval:
This product does not contain substances of very high concern (SVHC) on the candidate list at a concentration of >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII Restrictions on Use
This product does not contain any restricted substances (Regulation (EC)(No. 1907/2006, (REACH), appendix). XVII).

Substance that is subject to approval requirements according to REACH, Annex XIV
This product does not contain any substances that are subject to authorization (Regulation (EC)(No. 1907/2006, (REACH), appendix). XIV)

Requirements for issuing export licenses

This product does not contain any substances specified in Regulation (EC) No. 649/2012 of the European Parliament and the Council on the export and import of dangerous chemicals are above the threshold that requires labeling of Regulation (EC) No. 1272/2008. Therefore, this product is not subject to prior consent requirements Notification.

Category for dangerous substances according to the Seveso Directive (2012/18/EU)
P3a - FLAMMABLE AEROSOLS

Regulation on ozone-depleting substances (EC) No. 2024/590
Not applicable.

Persistent organic pollutants
Not applicable

REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on Marketing and use of precursors for explosives
This product is regulated by Regulation (EU) No. 2019/1148: All suspicious transactions as well as the Loss and theft of significant quantities must be reported to the responsible national contact point. This Product contains:

Chemical name	Reporting of suspects transactions, Loss and Theft	Restricted	Registration
Acetone - 67-64-1	Regulated		
Aluminum - 7429-90-5	Regulated		

Regulations on drug precursors (EC) No. 111/2005 (export) and 273/2004 (domestic trade)
This product does not contain any substance(s) classified under the EU Regulations on drug precursors [(EC) No. 111/2005 and (EC) No. 273/2004] are regulated in higher quantities than by easily applicable or economically justifiable means can be used or extracted.

National regulations

Deutschland
Industrial Safety Ordinance (BetrSichV, Germany)
Not a flammable liquid according to BetrSichV

Water hazard class (WGK) clearly hazardous to water (WGK 2)

Storage class according to TRGS 510 Storage class 2B: Aerosols

Swiss VOC (%) 84.7

15.2. Chemical safety assessment

Chemical safety assessments have been carried out for substances > 10 t/a by the respective REACH registrants; for that No chemical safety assessment has been carried out on this mixture

SECTION 16: Other information

Key or legend for abbreviations and acronyms used in the safety data sheet

Full text of all hazard and/or precautionary statements referenced in Sections 2-15
EUH066 - Repeated exposure may cause skin dryness or cracking

H220 - Extremely flammable gas
H225 - Highly flammable liquid and vapor
H226 - Flammable liquid and vapor
H228 - Flammable solid
H261 - Contact with water produces flammable gases
H280 - Contains gas under pressure; can 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
H412 - Harmful to aquatic life with long lasting effects

Notes on the identification, classification and labeling of substances
Note C - Some organic substances can exist either in a well-defined isomeric form or as a mixture
several isomers are placed on the market. In this case, the supplier must indicate on the identification label whether
it is a specific isomer or a mixture of isomers
Note T - This substance may be placed on the market in a form that does not reflect the physical properties
as specified in the classification entry in Part 3. If the results of the relevant method(s) are in accordance with
Regulation (EC) No. 440/2008 show that the relevant form of the substance placed on the market has these physical properties
does not have any property(s), the substance is to be classified according to the results of this test(s). Into that
The relevant information must be included in the safety data sheet, including the mention of the relevant information
Test method(s) Note U - When placed on the market, the gases must be classified as ·gases under pressure· in one of the groups
Compressed gases, liquefied gases, refrigerated gases or dissolved gases can be classified. The assignment
to a group depends on the physical state in which the gas is packaged and must therefore be carried out on a case-by-case basis
be decided. The following codes are assigned: Press. Gas (Comp.), Press. Gas (Liq.), Press. Gas (ref.
Liq.), Press. Gas (Diss.). Aerosols may not be classified as gases under pressure (see Annex I Part 2 Section 2.3.2.1
Note 2)

SVHC: Substance of very high concern for approval:
PBT: Persistent, bioaccumulative and toxic (PBT) substances
vPvB: Very persistent and very biocumulative (vPvB) substances STOT
RE: Specific Target Organ Toxicity - Repeated Exposure
STOT SE: Specific target organ toxicity - Single exposure
EWC: European Waste Catalog
LOW: List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IATA:
International Air Transport Association
ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air IMDG:
Sea transport
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

Legend SECTION 8: Exposure controls/personal protection

TWA	TWA (time weighted average)	STEL	STEL (Short Term Exposure Limit, value for short-term exposure)
AGW	Occupational limit value	BGW	Biological limit
limit	Maximum limit	Sk*	Skin naming

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapors	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Corrosion/irritation to skin	Calculation method

Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Chronic aquatic toxicity	Calculation method
Acute aquatic toxicity	Calculation method
Danger of aspiration	Calculation method
Ozone	Calculation method
Flammable aerosol	Based on test data

Authoritative literature references and sources for the data used to prepare the safety data sheet
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Risk Assessment Committee (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
US Environmental Protection Agency
Guideline values for acute exposure (Acute Exposure Guideline Level(s), AEGL(s))
International Unified Chemical Information Database (IUCLID)
Japan National Institute of Technology and Evaluation (NITE)
NIOSH (National Institute for Occupational Safety and Health, cf. Federal Institute for Occupational Safety and Health)
International Organization for Economic Cooperation and Development (International Organization for Economic Co-operation and Development, OECD) publications on the environment, health and safety
International Organization for Economic Cooperation and Development (International Organization for Economic Co-operation and Development (OECD) program for high-volume chemicals
International Organization for Economic Cooperation and Development (International Organization for Economic Co-operation and Development, OECD) Screening Information Data Set

Manufactured by Product safety

Revised on May 27, 2025

Note on revision SDS sections updated 1

Training Notes No information is available

Further information No information is available

Safety data sheet according to Regulation (EC) No. 1907/2006 (REACH)
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878 and Regulation (EC) No. 1272/2008 version

Disclaimer
The information provided in this safety data sheet is as of the date of publication accurate to the best of our knowledge. The information is for guidance only for safe handling, Use, processing, storage, transport, disposal and in the event of spillage are determined and apply not as a guarantee and quality specifications. This information refers only to the explicit specified material and may when used with other materials or other processes for such Material is not valid unless specified in the text.

End of the safety data sheet