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 SILIKON SPRAY
Replaces date 02-Jun-2025

Revised on July 16, 2025
Revision number 1.01

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

1.1. Product identifier

Product name M-ONE SILIKON SPRAY

Other names

Pure substance/mixture Mixture

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

Recommended use Lubricant

Uses of which will None known. discouraged

1.3. Details of the supplier providing the safety data sheet

Company name **Made for**

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)
Hazardous to water - chronic	Category 3 - (H412)

2.2. Marking elements



Signal word
Danger

Danger warnings
H222 - Extremely flammable aerosol.
H229 - Container is pressurized: May burst if heated.
H412 - Harmful 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
P273 - Avoid release to the environment
P410 + P412 - Protect from direct sunlight. Do not expose to temperatures above 50°C/122°F
P501 - Dispose of contents/container to an approved waste disposal facility

2.3. Other dangers

During use, formation of explosive/highly flammable vapor/air mixtures is possible. If there is insufficient ventilation or Formation of explosive/highly flammable mixtures possible through use. Causes mild skin irritation.

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

3.2 Mixtures

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
n-butane 106-97-8	>25 - <40	01-2119474691 -32-XXXX	203-448-7 (601-004-00-0)	Flam. Gas 1 (H220) Press. Gas (H280)	-	-	-	C,U
Isobutane 75-28-5	10 - <20	01-2119485395 -27-XXXX	200-857-2 (601-004-00-0)	Flam. Gas 1 (H220) Press. Gas (H280)	-	-	-	C,U
hydrocarbons, C7, n-alkanes, Isoalkanes, cyclic RR-100219-3	5 - <10	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)	-	-	-	-

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 U - When placed on the market, the gases must be classified as ·gases under pressure· in one of the groups of compressed gases, of liquefied gases, frozen gases or dissolved gases. The assignment to a group depends on the physical state in which the gas is packaged and must therefore be decided on a case-by-case basis. 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
n-butane	203-448-7 (601-004-00-0)	106-97-8	-	-	-	-	-
Isobutane	200-857-2 (601-004-00-0)	75-28-5	-	-	-	-	-
hydrocarbons, C7, n-alkanes, Isoalkanes, cyclic	927-510-4	RR-100219-3	-	-	-	-	-

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 If medical advice is required, have packaging or identification label available. This safety data sheet must be shown to the attending physician.

Inhale Get some fresh air.

Eye contact Visit an ophthalmologist. Rinse immediately with plenty of water for at least 15 minutes Rinse, including under the eyelids. Any contact lenses you may have Remove option. Continue rinsing. Eyes wide open while rinsing hold. Do not rub the affected area. If persistent irritation occurs, use one See a doctor.

Skin contact Wash skin with soap and water. In case of skin irritation or allergic reactions consult a doctor.

Swallowed If swallowed, rinse mouth with water (only if the victim is conscious is).

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).

4.2. Most important acute and delayed symptoms and effects

Symptoms Prolonged contact may cause redness and irritation.

Effects upon exposure No information is available.

4.3. Indications of immediate medical attention or special treatment

Note to the doctor No information is available.

SECTION 5: Firefighting measures

5.1. Extinguishing agent

Suitable extinguishing agents Dry extinguishing agent. Carbon dioxide (CO2). Spray water.

Unsuitable extinguishing agents Full water jet.

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 residue and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Gas cylinders can break in extreme heat. Handling Damaged pressure bottles should only be repaired by professionals. Containers may explode when heated.

Dangerous combustion products Carbon oxides. Carbon monoxide. Carbon dioxide (CO2). Silicon dioxide.

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 Use prescribed personal protective equipment. Contact with skin, eyes and avoid clothing.

Other information Ventilate the area.

emergency services Use personal protective equipment recommended in Section 8.

6.2. Environmental protection measures

Environmental protection measures Do not allow to enter drains or waterways. Not in the Allow to reach the subsurface/soil.

6.3. Methods and materials for containment and cleaning up

Methods for restraint Use a non-combustible material such as vermiculite, sand or earth to absorb the product Use and place in a container for later disposal.

Cleaning procedure Collect mechanically and place in suitable containers for disposal.

Avoiding secondary hazards Remove all sources of ignition if safe to do so.

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 From heat, hot surfaces, sparks, open flames and other sources of ignition keep away. Do not smoke. Do not use open flames or other sources of ignition spray. Do not open or burn cans. Content is under pressure. Personal Use protective equipment. Avoid contact with eyes and skin.

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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep away from heat, sparks, flames and other sources of ignition (i.e. pilot lights, electric motors and static electricity). Protect from sunlight. From Keep away from food, drinks and feed. According to the specific keep national regulations.

Recommended storage temperature Keep temperatures between 10 and 35 °C.

7.3. Specific end uses

Specific uses
Lubricant.

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
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);
Isobutane 75-28-5	-	TWA-AGW; 1000 ppm (exposure factor 4) TWA-AGW; 2400 mg/m3 (exposure factor 4);

Derived exposure level without impairment (DNEL) No information available

Derived exposure level without impairment (DNEL)			
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	Dermal	300 mg/kg body weight/day	
Health			

Derived exposure level without impairment (DNEL)
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	

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

8.2. Limiting and monitoring exposure

Technical Ensure adequate ventilation, especially in enclosed spaces. Control devices

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 the product does not allow it to enter the environment in an uncontrolled manner.

Environmental exposure

SECTION 9: Physical and chemical properties

9.1. Information on the basic physical and chemical properties

Physical condition liquid

Appearance Aerosol

color Colorless

smell Petroleum.

property	Values	Remarks · Method
Melting point / freezing point	Not applicable. °C	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 pH		None known
Value pH (as aqueous solution)	No data available	Not applicable. Insoluble in water.
Viscosity, kinematic	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	Insoluble in water.	
solubility(ies)	No data available	None known
distribution coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density bulk density	No data available	None known
Liquid density	No data available	None known
Relative vapor density	0.57 - 0.60 g/cm³	
Particle properties	No data available	
particle size		None known
Particle size distribution	No information is available	
	No information is available	

9.2. Other information

Solids content (%) 0

Volatile organic compound content approximately 530.6 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 heating leading to increased pressure and risk of bursting. Reactions

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.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong alkalis. Oxidizer. 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.

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

Skin contact Specific test data for the substance or mixture are not available. Caused slight skin irritation.

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

Symptoms related to the physical, chemical and toxicological properties

Symptoms Prolonged contact may cause redness and irritation.

Acute toxicity

Toxicity index

The following ATE values ··were calculated for the mixture

ATEmix (oral)	>2000 mg/kg
ATEmix (dermal)	>2000 mg/kg
ATEmix (Inhale from gas)	>20000 ppm
ATEmix (Inhale from dust/fog)	>5 mg/l
ATEmix (Inhale from steaming)	>20 mg/l

Information about the components

Chemical Designation	LD50 oral	LD50 dermal	LC50 Inhale
n-butane	-	-	=658 g/m3 (Rattus) 4 h
Isobutane	-	-	=658 mg/L (Rattus) 4 h
hydrocarbons, C7, n-alkanes, Isoalkanes, cyclic	LD50 >5840 mg/kg Advice	LD50 >2920 mg/kg (Rattus)	LC50 >23.3 mg/L (4h)(Advice, vapor)

			(OECD 403)

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

Corrosion/irritation to skin Based on the available data, the classification criteria are not met. Classification is based on the data available for the ingredients. Causes mild skin irritation.

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

Eye damage/eye irritation

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

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

STOT - repeated exposure Based on the available data, the classification criteria are not met.

Danger of aspiration Based on the available data, the classification criteria are not met.

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 Harmful to aquatic organisms with long lasting effects.

Chemical Designation	Algae/water replenishments	Fish	Toxicity opposite microorganisms	Crustaceans	M factor	M factor (long term)

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)		

12.2. Persistence and degradability

Persistence and degradability No information is available.

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
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
n-butane	No PBT/vPvB
Isobutane	No PBT/vPvB
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic	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 Dispose of contents/containers in accordance with local, regional, national and comply with international regulations. Must not be released into the environment. Dispose of in accordance with local regulations. Waste in accordance with environmental regulations dispose.

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 COMPRESSED GAS PACKINGS
UN shipping name
14.3 Transport hazard classes 2
Markings 2.1
14.4 Packaging group Not regulated
Description UN1950, COMPRESSED GAS PACKINGS, 2, (D)
14.5 Environmental Hazards No
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 PACKINGS, 2.1
14.5 Marine pollutant NP
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 No
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

Check whether measures under Directive 94/33/EC on the protection of young people at work need to be taken.

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 explosives precursors Not applicable

Regulations on drug precursors (EC) No. 111/2005 (export) and 273/2004 (domestic trade) This
Product does not contain any substances that are listed as drug precursors.

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 (%) 93.4

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 referred to in sections 2-15 H220
- Extremely flammable gas
H225 - Highly flammable liquid and vapor
H280 - Contains gas under pressure; can explode if heated
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H411 - Toxic 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 U - When placed on the market, the gases must be classified as ·gases under pressure· in one of the groups of compressed gases, of liquefied gases, frozen gases or dissolved gases. The assignment to a group
depends on the physical state in which the gas is packaged and must therefore be decided on a case-by-case basis.
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 16-Jul-2025

Note on revision SDS sections updated 1 15

Training Notes When working with hazardous substances, regular training for employees is required by law prescribed

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