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 GREASE SPRAY 400ML 12
Replaces version dated: May 30, 2024

Revised on May 30, 2024
Revision number 1

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

1.1. Product identifier

Product name M-ONE GREASE SPRAY 400ML 12

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
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]

Danger of aspiration	Category 1 - (H304)
Corrosion/irritation to skin	Category 2 - (H315)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Category 3 Narcotic effects	
Chronic aquatic toxicity	Category 2 - (H411)
Aerosols	Category 1 - (H222, H229)

2.2. Marking elements

Contains hydrocarbons, C7, n-alkanes, isoalkanes, cyclic



Signal word
Danger

Danger warnings
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H411 - Toxic to aquatic life with long lasting effects
H222 - Extremely flammable aerosol
H229 - Container is pressurized: May burst if heated

EU information on specific hazards
EUH208 - Contains di-tert-dodecyl polysulfide. May cause allergic reactions

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
P261 - Avoid breathing mist/vapour/spray
P264 - Wash hands and face thoroughly after use
P271 - Use only outdoors or in well-ventilated areas
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing and eye/face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P312 - If you feel unwell, call a POISON CENTER or doctor
P391 - Collect spills
P405 - Keep locked up
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

Further information
This product is subject to the requirement of a child-resistant closure and a tactile hazard warning
except because it poses an aspiration hazard and in the form of an aerosol or in a sealed container
Spray attachment is brought into circulation. 2.3. Other dangers

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

PBT & vPvB
This mixture does not contain any substances that are considered persistent, bioaccumulative or toxic (PBT). This mixture contains keine Stoffe, die als sehr persistent oder sehr bioakkumulierbar gelten (vPvB).

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	EC Nr (EU Index No).	CAS no.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	More specific concentration limits zwert (SCL):	M factor	M factor (long term g)	REACH registration number mer
hydrocarbons, C7, n-Alkane, Isoalkane, cyclic 40 - <80 %	927-510-4	RR-100219-3	STOT SE 3 (H336) Asp. Tox. 1 (H304) Skin irritation. 2 (H315) Aquatic Chronic 2 (H411) Flam. Liq. 2 (H225)	-	-	-	01-211947551533-xxxx
n-butane 5 - <10 %	203-448-7 (601-004-000)	106-97-8	Flam. Gas 1 (H220) Press. Gas (H280)	-	-	-	01-211947469132-XXXX
Isobutane 1 - <5 %	200-857-2 (601-004-000)	75-28-5	Flam. Gas 1 (H220) Press. Gas (H280)	-	-	-	01-211948539527-XXXX
Di-tert-dodecyl polysulfide 0.1 - <0.3 %	270-335-7	68425-15-0	Skin Sens. 1B (H317)	-	-	-	01-211954051641-XXXX

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

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 Nr (EU Index No)	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
hydrocarbons, C7, n-alkanes, Isoalkanes, cyclic	927-510-4	RR-100219-3	-	-	-	-	-
n-butane	203-448-7 (601-004-00-0)	106-97-8	-	-	-	-	-
Isobutane	200-857-2 (601-004-00-0)	75-28-5	-	-	-	-	-
Di-tert-dodecyl-polysulfid	270-335-7	68425-15-0	-	-	-	-	-

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)

Notes

For more information, see Section 16

Chemical name	Notes
n-Butane - 106-97-8	C,U
Isobutane - 75-28-5	C,U

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. Seek medical advice immediately Obtain/obtain medical attention. Pulmonary edema may be delayed.

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. Inhale high Vapor concentrations can cause headaches, dizziness, drowsiness, and nausea cause vomiting.

Effects upon exposure

No information is available.

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. Dry extinguishing agent, CO2, water spray or alcohol-resistant Foam.

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.

Running out of material

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

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

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. Ensure adequate ventilation. Take measures against electrostatic charges. From heat, hot surfaces, Keep sparks, open flames and other sources of ignition away. Don't smoke. Not Spray against an open flame or other source of ignition. Contact with skin, eyes and Avoid clothing. Do not open or burn cans. Content is under pressure. Empty containers pose a potential fire and explosion hazard. Containers do not cutting, piercing, or welding.

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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Protect from sunlight. Protected from sunlight in a well place
Store in a ventilated place. Do not store at temperatures above 50°C. From
Keep away from open flames, hot surfaces and sources of ignition. According to the specific national regulations. Not food or feed
contaminate. Store under lock and key.

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	-	AGW: 1000 ppm exposure factor 4 AGW: 1800 mg/m3 exposure factor 4
n-butane 106-97-8	-	AGW: 1000 ppm exposure factor 4 AGW: 2400 mg/m3 exposure factor 4
Isobutane 75-28-5	-	AGW: 1000 ppm exposure factor 4 AGW: 2400 mg/m3 exposure factor 4
Di-tert-dodecyl polysulfide 68425-15-0	-	AGW: 5 mg/m3 exposure factor 4 alveolar fraction

Derived exposure level without No information available
Impairment (DNEL)

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 information is available.
No-effect concentration (PNEC)

8.2. Limiting and monitoring exposure

Technical Ensure adequate ventilation, especially in enclosed spaces. vapors /
Control devices 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 If ventilation is inadequate, wear breathing apparatus. Respiratory mask according to EN 140 Wear with filter type A or better.

Recommended filter type: Filter for organic gases and vapors according to EN 14387.

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 White

smell Characteristic.

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

Luft	No data available	
Upper flammability or Explosion limit	No data available	
Lower flammability or Explosion limit	Not applicable, aerosol.	
Flash point	No data available	
Auto-ignition temperature	No data available	Not applicable, aerosol
Decomposition temperature pH	No data available	None known
Value pH (as aqueous solution)	No data available	None known
Viscosity, kinematic	No data available	Not applicable. Insoluble in water.
Dynamic viscosity	No data available.	
Water solubility	No data available	None known
solubility(ies)	No data available	None known
distribution coefficient	No data available	
Vapor pressure	No data available	None known
Relative density bulk density	No data available	None known
Liquid density	0.7019 g/cm³	None known
Relative vapor density	No data available	None known
Particle properties		None known
particle size	No information is available	
Particle size distribution	No information is available	
		None known

9.2. Other information

Solids content (%) There is no information before

Volatile organic compound content No data available

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. 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. Aspiration into the lungs can cause serious complications lead to lung damage. May cause pulmonary edema. Pulmonary edema can be fatal be. May cause respiratory irritation. May cause drowsiness and cause dizziness.

Eye contact May cause irritation.

Skin contact Causes skin irritation. (based on components).

Swallowed 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 values are calculated based on chapter 3.1 of the GHS document

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
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)
n-butane	-	-	=658 g/m3 (Rattus) 4 h
Isobutane	-	-	=658 mg/L (Rattus) 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.

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 May cause drowsiness and dizziness.

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

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 No information available.

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)
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)	-	EL50 (48h) = 3.0 mg/L (Daphnia magna)		
		OECD 203				
Di-tert-dodecyl-polysulfid 68425-15-0	-	LC50: >100mg/L (96h, Danio rerio)	-	-		

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 There is no data available for this product.

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 UN. vPvB rating

Chemical name	PBT and vPvB assessment results
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic	The substance is not PBT / vPvB
n-butane	The substance is not PBT / vPvB
Isobutane	The substance is not PBT / vPvB
Di-tert-dodecyl polysulfide	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disruptive properties No information available.

12.7. Other Adverse Effects It

no information is available.

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 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), 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 PACKINGS (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics), 2.1, (0°C c.c.), 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)

Category for dangerous substances according to the Seveso Directive (2012/18/EU)
P3a - FLAMMABLE AEROSOLS
E2 - Hazardous to the aquatic environment - Category Chronic 2

Regulation on ozone-depleting substances (EC) No. 1005/2009
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

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 (%) 23.1

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

Wording of the H-phrases referred to in Section 3
H225 - Highly flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
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 label whether it is a specific isomer or a
Mixture of isomers is Note U (Table 3): When placed on the market, the gases must be classified as ·gases under pressure·.
classified into one of the groups of compressed gases, liquefied gases, refrigerated gases or dissolved gases
become. The assignment to a group depends on the physical state in which the gas is packaged and therefore must
be decided on a case by case basis. The following codes are assigned:
Press. Gas (Comp.) par 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 (IMDG)
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 determination

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

Acute aquatic toxicity	Calculation method
Chronic 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)
Environmental Protection Agency
Guideline values for acute exposure (Acute Exposure Guideline Level(s), AEGL(s))
International Unified Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
NIOSH (National Institute for Occupational Safety and Health, cf. Federal Institute for Occupational Safety and Health)
Organization for Economic Co-operation and Development
OECD) Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development
OECD) High Production Volume Chemicals Program
Production volume
Organization for Economic Co-operation and Development
OECD) Screening Information Data Set (Program for the creation of data sets on chemicals, SIDS)

Manufactured by	Product safety
Revised on	May 30, 2024
Note on revision	First edition
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

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End of the safety data sheet