

# Safety data sheet

according to Regulation (EC) No 1907/2006 (REACH)



Trade name: Stainless steel cleaning spray 400 ml

Metabo no.: 626377000

Version / Language: 1.3 / EN

Site 1 from 23

Date: 28.11.2023

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

### 1.1 Product identifier

Product form: Mixture  
Trade name: Stainless steel cleaning spray 400 ml  
UFI code: 9X0Y-EG8E-GT5G-GTFW  
Product type: Lubricant  
Product group: Mixture  
Nebuliser  
Aerosol

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

#### Relevant identified uses

Aerosol product. The product is intended for professional users.

#### Uses advised against

Do not use for private purposes.

### 1.3 Details of the supplier of the safety data sheet.

Metabowerke GmbH  
Metabo Allee 1  
D-72622 Nürtingen  
Phone: +49 (0) 7022 - 72 0  
Fax: +49 (0) 7022 - 72 2595  
Web: <https://www.metabo.com>  
e-mail: [product-compliance@metabo.de](mailto:product-compliance@metabo.de)

### 1.4 Emergency number

GBK GmbH (24 h): +49 (0)6132-84463

## SECTION 2: Possible dangers

### 2.1 Classification of the substance or mixture

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

Aerosol 1, H222, H229

Skin Irrit. 2, H315

Eye Irrit. 2, H319

STOT SE 3, H336

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 and its amendments.

See section 16 for the full text of the H-phrases listed above.

See section 11 for more detailed information on health effects and symptoms.

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## Harmful physico-chemical effects and harmful effects on human health and the environment

May cause drowsiness and dizziness.

Harmful to aquatic organisms, with long lasting effects.

## 2.2 Labelling elements

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

Hazard pictograms:



Signal word:

Danger

### Hazard statements

H222, H229 - Extremely flammable material. Pressurized container: may burst if heated.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

### Precautionary statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P211 - Do not spray on an open flame or other ignition source.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P261 - Avoid breathing dust/fume(gas/mist/vapours/spray

P264 - Wash thoroughly after handling.

P251 - Pressurized container. Do not pierce or burn, even after use.

P391 - Collect spillage

P304 + P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P362 + P364 - Take off contaminated clothing and wash before reuse.

P305 + P351 + P338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337 + P313- If eye irritation persists: Get medical advice/attention.

P405 - Store locked up

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122 °F.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

P501 - Dispose of containers in accordance with official regulations.

### Additional statements, additional labelling

Contains (R)-p-mentha-1,8-diene. May cause allergic reactions.

### Additional hazard features

None

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## Childproof lock

Not applicable

## Tactile hazard warning

Not applicable

## 2.3 Other hazards

Hazard without classification: Aspiration hazard

This mixture does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition / information on ingredients

### 3.1 Fabrics

Not applicable

### 3.2 Mixtures

#### Hazardous ingredients

Substance name	Product identifier	Concentration [%]	Classification according to Regulation (EC) No 1272/2008 [CLP].	SCL, ATE (oral, dermal, inhalation), M-factor (acute, chronic)	Type
Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclic Compounds, <5 % n-hexane	REACH #: 01-2119475514-35 EC: 921-024-6 CAS: -	≥10 - ≤25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	(1)
Butane	REACH #: 01-2119474691-32 EC: 203-448-7 CAS: 106-97-8 Directory: 601-004-00-0	≥10 - ≤25	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	(2)
Propane	REACH #: 01-2119486944-21 EC: 200-827-9 CAS: 74-98-6 Directory: 601-003-00-5	≥10 - ≤25	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	-	(2)
Ethanol	REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Directory: 603-002-00-5	≥10 - ≤20	Flam. Liq. 2, H225	-	(2)

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2-Butoxyethanol	REACH #: 01-2119475108-36 EC: 203-905-0 CAS: 111-76-2 Directory: 603-014-00-0	≥10 - ≤16	Acute Tox. 4, H302 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE (Oral) = 1200 mg/kg ATE (inhalation (vapours)) = 3 mg/l	(1) (2)
Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cycloalkanes <2% aromatics	REACH #: 01-2119463258-33 EC: 919-857-5 CAS: 64742-48-9	≥10 - <20	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	-	(1)
(R)-p-Mentha- 1,8-diene	REACH #: 01-2119529223-47 EC: 227-813-5 CAS: 5989-27-5 Directory: 601- 096-00-2	<1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	M(acute) = 1	(1) (2)
2-propanol	REACH# 01- 2119457558-25 EC: 200-661-7 CAS: 67-63-0 Directory: 603-117-00-0	<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 <b>See section 16 for the full text of the H-phrases given above.</b>		(1) (2)

## Additional hints

There are no additional ingredients present which, to the best of the supplier's current knowledge, are classified as hazardous to health or the environment in the applicable concentrations, are PBT or vPvB substances or substances of equivalent concern, or which have an occupational exposure limit and therefore need to be listed in this section.

### Type:

- (1) Substance classified as hazardous to health or the environment
- (2) Substance with an occupational exposure limit

Occupational exposure limits, if available, are given in section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

None

#### In case of eye contact

Rinse eyes immediately with plenty of water and occasionally rinse the upper and lower eye

Lift the eyelids. Check for contact lenses and remove if present.

Rinse continuously for at least 10 minutes. Call a doctor.

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## Inhalation

Remove the affected person to fresh air and keep them in an immobilized position, which makes breathing easier. If you suspect that vapours are still present, the rescuer must wear a suitable breathing mask or a self-contained breathing apparatus. Wear breathing apparatus. In the event of non-existent or irregular breathing or

If a respiratory arrest occurs, trained personnel must carry out a

Initiate artificial respiration or oxygen administration. For the person providing first aid It can be dangerous to perform mouth-to-mouth resuscitation on a person.

Contact a doctor. If necessary, a poison information centre or a doctor

Call a doctor. If unconscious, place in recovery position and seek medical assistance immediately.

consult a doctor. Keep airways open. Tight-fitting items of clothing (e.g. loosen collar, tie, belt or waistband).

## In case of skin contact

Rinse contaminated skin with plenty of water. Remove contaminated clothing and

Take off shoes. Rinse continuously for at least 10 minutes. A doctor

notify the doctor. Wash clothing before wearing it again. Wash shoes before

Clean thoroughly before reuse.

## In case of ingestion

Rinse the mouth with water. Remove dentures if present.

If the substance has been swallowed and the affected person is conscious, give small amounts of water to drink. If nausea occurs, do not allow the person to continue drinking, as vomiting can be dangerous. Do not induce vomiting unless specifically instructed to do so by medical personnel. If vomiting occurs, keep the head low so that the vomit does not enter the lungs. Contact a doctor. If necessary, a poison information centre or a doctor call. Never give anything by mouth to an unconscious person.

If unconscious, place in recovery position and seek medical assistance immediately

consult a doctor. Keep airways open. Tight-fitting items of clothing (e.g. loosen collar, tie, belt or waistband).

## Self-protection of the first aider

No action should be taken that involves personal risk or has not been adequately trained.

If it is suspected that vapours are still present, the rescuer must wear a suitable breathing mask or self-contained breathing apparatus. It can be dangerous for the person providing first aid to perform mouth-to-mouth resuscitation.

## 4.2 Most important symptoms and effects, both acute and delayed

### Signs / symptoms of overexposure

In case of eye contact: Pain or irritation, lacrimation, redness

If inhaled, respiratory tract irritation, coughing, nausea or vomiting, headache, drowsiness/fatigue, dizziness/fear of heights, unconsciousness

In case of skin contact: Irritation, redness

In case of ingestion: No specific data

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## 4.3 Information on immediate medical help or special treatment

### Notes for the doctor

Symptomatic treatment.

Regulation of the circulatory function, possibly shock treatment.

Oxygen ventilation if necessary.

If large quantities are swallowed or inhaled, contact the specialist at the Poisons Information Centre immediately.

## SECTION 5: Fire fighting measures

### 5.1 Extinguishing agent

#### Suitable extinguishing agents

Use an extinguishing agent that is also suitable for neighbouring fires.

#### Unsuitable extinguishing agents

None known.

### 5.2 Special hazards arising from the substance or mixture

#### Hazards arising from the substance or mixture

Extremely flammable aerosol. If it enters the sewage system, there is a risk of fire and Risk of explosion. In the event of heating or fire, a rise in pressure occurs and the Container may burst, creating a risk of explosion. Gas can accumulate in accumulate in low-lying or closed areas or spread very far up to the surface. a source of ignition and can lead to a flashback with fire or explosion. In the event of fire, bursting aerosol containers with large fly around at high speed. This material is toxic to aquatic organisms and has long-term effects. Extinguishing water contaminated with this substance must be must be contained and must not be discharged into watercourses, sewers or drains. reach.

#### Hazardous combustion products

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In the event of a fire, immediately cordon off the scene and evacuate all persons from the danger zone. No measures should be taken that involve personal risk or that have not been adequately trained. Remove containers from the fire area if this can be done safely. Cool containers exposed to fire with water spray.

#### Special protective equipment for fire fighting

Firefighters should wear appropriate protective clothing and self-contained breathing apparatus with full face protection operating in positive pressure mode. Clothing for firefighters (including helmet, protective boots and protective gloves) that complies with Europe-

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an Standard EN 469 provides basic protection in the event of accidents involving chemicals.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### Personnel not trained for emergencies

No measures should be taken that involve personal risk. or have not been sufficiently trained. Evacuate the area. Do not deny access to required and unprotected personnel. In the case of damaged Aerosol containers Beware of rapidly escaping, pressurised contents and propellant. When breaking a large number of containers as Bulk spill according to the instructions in the section on clean-up measures treat. Do not touch or walk on spilled substance. All ignition sources Switch off. No sparks, no smoking and no flames in the danger zone. Avoid inhalation of vapour or mist. Ensure adequate ventilation. Wear respiratory protective equipment if ventilation is inadequate. Wear suitable personal Put on protective equipment.

#### Emergency protection measures

If specialised clothing is required to deal with the spillage, refer to Section 8 on suitable and unsuitable materials. See also information in "Personnel not trained for emergencies".

### 6.2 Environmental protection measures

Avoid the spread and run-off of released material as well as contact with soil, water, drains and waste water pipes. The Notify the responsible authorities if the product causes environmental pollution (wastewater systems, surface waters, soil or air). Substance is water polluting. If released in large quantities may be harmful to the environment. Pick up spillages.

### 6.3 Methods and material for retention and cleaning

Containment and sealing methods:	Eliminate leaks if possible without risk. Remove the container from the leakage area. Use spark-proof tools and explosion-proof equipment.
Cleaning method:	Dilute with water and wipe up if water soluble. Alternatively, or if insoluble in water, absorb with an inert dry material and place in a suitable waste container. Dispose of via a recognized waste disposal company.
Other information:	No further information.

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## 6.4 Reference to other sections

See section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See section 13 for further information on waste treatment.

## SECTION 7: Handling and storage

The information in this section contains general advice and instructions

### 7.1 Protective measures for safe handling

#### Protective measures:

Wear suitable protective equipment (see section 8). Container is under Pressure. Protect from sunlight and temperatures above 50°C. Also after Do not open forcibly or burn before use. Do not swallow. Contact

Avoid contact with eyes, skin and clothing. Avoid inhalation of the gas.

Avoid inhalation of vapour or mist. Avoid release to the environment.

Only use with adequate ventilation. In case of insufficient ventilation

Wear respiratory protective equipment. Keep away from heat, sparks, open flames or other sources of heat.

Store and use ignition sources. Explosion-proof electrical devices (ventilation, lighting and material movement). Only non-sparking

Use tools. Empty containers contain product residues and can be dangerous.

#### Hygiene measures:

Eating, drinking and smoking are prohibited in areas where this substance is present. is used, stored or processed. The substances

persons must check their health before eating, drinking or smoking.

Wash hands and face. Contaminated clothing and protective equipment before entering the dining area. See section 8 for more

Information on hygiene measures.

### 7.2 Conditions for safe storage, taking into account incompatibilities Technical measures and storage conditions

Store in accordance with local regulations. Protect from direct sunlight. Store only in dry, cool and well ventilated areas. Do not store together with incompatible substances (see section 10) and do not store with food and beverages. Store under lock and key. Remove all sources of ignition.

#### Packaging materials

Use appropriate container to avoid environmental contamination.

See section 10 on incompatible materials before handling or use

#### Requirements for storage rooms and containers

Storage class: 2B

Substances to avoid: No further information



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## Further information on storage conditions

Seveso Directive - Notification thresholds

Hazard criteria

Category	Notification and MAPP limit	Limit value Safety report
P3a	150 tonnes	500 tonnes

## 7.3 Specific end uses

### Recommendations

Possibilities for substitution and information on less hazardous products:

This product was developed for a specific application and optimized accordingly.

If you have any questions about the product and application technology, please contact our field service as part of customer support or our technical sales department.

Observe the technical data sheet.

## SECTION 8: Exposure controls / Personal protective equipment

The information in this section contains general advice and instructions. Information provided is based on typical anticipated uses of the product. Additional measures may be required when handling large quantities or other uses that may significantly increase worker exposure or environmental releases.

### 8.1 Parameters to be monitored

#### Occupational exposure limits

##### Butane

TRGS 900 AGW	shift average	2400 mg/m <sup>3</sup> , 8 hours
	Short-term value	9600 mg/m <sup>3</sup> , 15 minutes
	Shift average	1000 ppm, 8 hours
	Short-term value	4000 ppm, 15 minutes
DFG MAK values	8-hour average	1000 ppm, 8 hours
	Peak limit	4000 ppm, 4 times per shift, 15 minutes
	8-hour average	2400 mg/m <sup>3</sup> , 8 hours
	Peak limit	9600 mg/m <sup>3</sup> , 4 times per shift, 15 minutes

##### Propane

TRGS 900 AGW	Shift average	1800 mg/m <sup>3</sup> , 8 hours
	Short-term value	7200 mg/m <sup>3</sup> , 15 minutes
	Shift average	1000 ppm, 8 hours
	Short-term value	4000 ppm, 15 minutes
DFG MAK values	MAK	1000 ppm, 8 hours
	Peak limitation	4000 ppm, 4 times per shift, 15 minutes
	MAK	1800 mg/m <sup>3</sup> , 8 hours
	Peak limit	7200 mg/m <sup>3</sup> , 4 times per shift, 15 minutes

##### Ethanol

TRGS 900 AGW	Shift average	380 mg/m <sup>3</sup> , 8 hours
	Short-term value	1520 mg/m <sup>3</sup> , 15 minutes

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DFG MAK values	Shift average	200 ppm, 8 hours
	Short-term value	800 ppm, 15 minutes
	MAK	200 ppm, 8 hours
	Peak limitation	800 ppm, 4 times per shift, 15 minutes
	MAK	380 mg/m <sup>3</sup> , 8 hours
	Peak limit	1520 mg/m <sup>3</sup> , 4 times per shift, 15 minutes

## 2-Butoxyethanol

TRGS 900 AGW	Shift average	49 mg/m <sup>3</sup> , 8 hours
	Short-term value	98 mg/m <sup>3</sup> , 15 minutes
	Shift average	10 ppm, 8 hours
	Short-term value	20 ppm, 15 minutes

*Absorbed through the skin*

DFG MAK values	MAK	10 ppm, 8 hours
	Peak limitation	20 ppm, 4 times per shift, 15 minutes
	MAK	49 mg/m <sup>3</sup> , 8 hours
	Peak limit	98 mg/m <sup>3</sup> , 4 times per shift, 15 minutes

*Absorbed through the skin*

## (R)-p-Mentha-1,8-diene

TRGS 900 AGW	Shift average value	5 ppm, 8 hours
	Short-term value	20 ppm, 15 minutes
	Shift average	28 ppm, 8 hours
	Short-term value	112 ppm, 15 minutes

*Absorbed through the skin, skin sensitiser*

DFG MAK values	MAK	28 mg/m <sup>3</sup> , 8 hours
	Peak limitation	112 mg/m <sup>3</sup> , 4 times per shift, 15 minutes
	MAK	5 ppm, 8 hours
	Peak limitation	20 ppm, 4 times per shift, 15 minutes

*Absorbed through the skin, skin sensitiser*

## 2-propanol

TRGS 900 AGW	Shift average value	500 mg/m <sup>3</sup> , 8 hours
	Short-term value	1000 mg/m <sup>3</sup> , 15 minutes
	Shift average	200 ppm, 8 hours
	Short-term value	400 ppm, 15 minutes
DFG MAK values	8-hour average	200 ppm, 8 hours
	Peak limitation	400 ppm, 4 times per shift, 15 minutes
	8-hour average	500 mg/m <sup>3</sup> , 8 hours
	Peak limit	1000 mg/m <sup>3</sup> , 4 times per shift, 15 minutes

## Recommended monitoring procedures

If the product contains ingredients with exposure limits, personal atmospheric (workplace) or biological monitoring may be required to determine the effectiveness of ventilation or other control measures and/or the need to use respiratory protective equipment. Reference should be made to monitoring standards such as the following: European standard DIN EN 689 (Workplace atmospheres - Guidance for the assessment of inhalation exposure to chemical agents for comparison with limit values and measurement strategy) European standard DIN EN 14042 (Workplace atmospheres - Guidance for the application and use of methods and equipment for the assessment of chemical and biological agents) European standard DIN EN 482 (Workplace atmospheres - General requirements for the per-

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formance of methods for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances is also required

## DNEL values

**CAS: 11-76-2**

**2-Butoxyethynol**

Oral	DNEL / systematic / long term	6.3 mg/kg/24h (consumer)
	systematic / short-term	26.7 mg/kg/24h (consumer)
Inhalative	DNEL / systematic / long-term	59 mg/m <sup>3</sup> (consumer)
	systematic / long-term	98 mg/m <sup>3</sup> (worker)
	local / short-term	147 mg/m <sup>3</sup> (consumer)
	localised / short-term	246 mg/m <sup>3</sup> (worker)
	systematic / short-term	426 mg/m <sup>3</sup> (consumer)
	systematic / short-term	1091 mg/m <sup>3</sup> (worker)

**CAS: 5989 -27 -5**

**(R)-p-Mentha-1,8-diene**

Oral	DNEL / systematic / long term	4.8 mg/kg/24h (consumer)
Inhalative	DNEL/ systematic / long-term	16.6 mg/m <sup>3</sup> (consumer)
	systematic / long-term	66.7 mg/m <sup>3</sup> (worker)
Dermal	DNEL / systematic / long-term	4.8 mg/kg/24h (consumer)
	systematic / long-term	9.5 mg/kg/24h (worker)

## PNEC values

No PNECs values are available.

## Additional notes

No further information.

## 8.2 Exposure controls and monitoring

### Suitable technical control devices

Only use with adequate ventilation. Closed process equipment, use local exhaust ventilation or other technical control systems to minimise the Exposure of workers to air pollutants below the recommended or to comply with the legally prescribed limit values. The technical equipment gas, vapour or dust concentrations must also be kept below any lower explosion limit values. Explosion-proof ventilation system use.

### Individual protective measures, for example personal protective equipment

#### General protective and hygienic measures:

Wash hands, forearms and face thoroughly after handling chemical products and at the end of the working day, as well as before eating, smoking and going to the toilet. Choose appropriate methods for removing contaminated clothing. Wash contaminated clothing before re-use. Ensure that eyewash stations and safety showers are available near the work area.

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Select suitable footwear and additional skin protection measures based on the task to be performed and the associated hazards, and have them approved in advance by a specialist.

## Breathing protection

Based on the hazard and the risk of exposure, select the respirator mask that fulfils the relevant standards and has the corresponding certificates. Respiratory masks must comply with the respiratory protection programme should be used to ensure a proper fit, adequate training and other important aspects of use.

Recommended: Filter against organic vapours (type AX) and particles

## Hand protection



When handling chemical products, chemical-resistant, impermeable gloves that comply with a recognised standard must always be worn if a risk assessment requires this. Check during use that the gloves still fulfil their protective properties, taking into account the parameters specified by the glove manufacturer. It should be noted that the breakthrough time for glove material may vary for different glove manufacturers. Recommended: 1-4 h (penetration time): Nitrile rubber

4-8 h (penetration time): Viton®/butyl rubber

## Eye/face protection



If the risk assessment requires it, safety goggles should be worn, that comply with a recognised standard to minimise exposure to liquid splashes, mists, gases or dusts. If a contact is possible, the following protective equipment must be worn unless the assessment requires a higher degree of protection: Chemical-resistant safety goggles.

## Body protection

Before handling this product, personal protective equipment should be selected based on the task to be performed and the associated risks and approved by a specialist. If there is a risk of ignition due to static electricity, antistatic protective clothing must be worn. For maximum protection against static discharges, clothing should include anti-static overalls, boots and gloves. See European Standard EN 1149 for more information on the material and the design interpretations and test methods.

## Environmental exposure controls

Emissions from aeration and process equipment should be checked in order to ensure that they fulfil the requirements of environmental protection legislation. In some cases, exhaust air scrubbers, filters or technical modifications to the process plants may be necessary to reduce emissions to acceptable levels to be reduced.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on the basic physical and chemical properties

#### Appearance

State of aggregation	aerosol
Colour:	Colourless
Odour:	Solvent. Sweetish
Odour threshold:	Not available
pH value:	Not available
Melting point / freezing point:	- 24 °C
Flammability	Extremely flammable in the presence of the following substances and conditions: open flames, sparks and electric shocks. Static discharges. Extremely flammable in the presence of the following substances and conditions: Heat
Initial boiling point and boiling range:	Not available
Lower and upper explosion limit	Lower value: 0.6% Upper value: 15%
Flash point:	Closed crucible, not applicable
Decomposition temperature:	Not available
Ignition temperature:	> 200 °C
Vapour pressure (at 20 °C):	830 kPa
Vapour density:	Not available
Relative density:	Not available
Density at 20°:	0.69 g/cm <sup>3</sup>
Solubility(ies):	Not available
Solubility in water:	Not available
Partition coefficient n-octanol/water:	Not applicable
Viscosity:	Not available
Kinematic viscosity at 40°C	Not available
Evaporation rate	Not available

### 9.2 Other information

No further information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific reactivity data is available for this product or its ingredients.

### 10.2 Chemical stability

The product is chemically stable under the recommended storage, use and temperature conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions will occur if handled and stored as directed.

### 10.4 Conditions to avoid

Avoid all possible sources of ignition (sparks, flames)

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## 10.5 Incompatible materials

No specific data.

## 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be formed.

## SECTION 11: Toxicological information

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

#### Acute toxicity

Estimate

Oral 7623.43 mg/kg

Inhalation (gases) 28587.86 ppm

#### LD/LC50 values relevant for classification

##### CAS: 11-76-2

##### 2-butoxyethanol

Inhalative	LC50	450 ppm, 4h (Rat)
Dermal	LD50	230 UL/kg (guinea pig)
	LD50	220 mg/kg (rabbit)
Intraperitoneal	LD50	536 mg/kg (mouse)
	LD50	220 mg/kg (rabbit)
	LD50	220 mg/kg (rat)
	TDLo	100 mg/kg (mammal)
Intravenous	LD50	1130 mg/kg (mouse)
	LD50	252 mg/kg (rabbit)
Oral	LD50	307 mg/kg (rat)
	LD50	1200 mg/kg (guinea pig)
	LD50	1230 mg/kg (mouse)
	LD50	1167 mg/kg (mouse)
	LD50	320 mg/kg (rabbit)
	LD50	917 mg/kg (rat)
	LD50	250 mg/kg (rat)
	LDLo	143 mg/kg (human)
	LDLo	1500 mg/kg (rat)
	TDLo	132 mg/kg (male-male)
	TDLo	500 mg/kg (rat)
TDLo	600 mg/g (female-female)	
TDLo	7813 uL/kg (female-female)	
Subcutaneous	LDLo	500 mg/kg (mouse)
Route of exposure, not recorded	LD50	1500 mg/kg (mammal)
	LD50	1050 mg/kg (mouse)
	LD50	917 mg/kg (rat)
	TDLo	250 mg/kg (rat)

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**CAS: 5989 -27 -5**

**(R)-p-Mentha-1,8-diene**

Dermal LD50 >5000mg/kg (rabbit)

Oral LD50 4400 mg/kg (rat)

## Corrosive/irritant effect on the skin

2-Butoxyethanol Mild irritant 500mg (rabbit)

(R)-p-Mentha-1,8-diene Mild irritant 24h, 10% (rabbit)

## Severe eye damage / irritation

2-Butoxyethanol Moderately irritant 24h, 10% (rabbit)

Strong irritant 100 mg (rabbit)

## Sensitisation of the respiratory tract / skin:

Not available

## Germ cell mutagenicity

Not available

## Carcinogenicity

Not available

## Reproductive toxicity

Not available

## Specific target organ toxicity in case of single exposure:

Name of the product / ingredient	Category	Exposure path	Target organs
Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclic compounds, < 5% n-hexane	Category 3	-	Narcotic effects
Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cycloalkanes <2% aromatics	Category 3	-	Narcotic effects

## Specific target organ toxicity in case of repeated exposure

Not available

## Aspiration hazard

Name of the product / ingredient	Result
Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclic compounds, < 5% n-hexane	ASPIRATION HAZARD - Category 1
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cycloalkanes <2% aromatics	ASPIRATION HAZARD - Category 1
(R)-p-Mentha-1,8-diene	ASPIRATION HAZARD - Category 1

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Date: 28.11.2023

## Information on other hazards

### Possible acute effects on health

Eye contact: Causes serious eye irritation  
Inhalation: May cause central nervous system (CNS) depression.  
May cause drowsiness and dizziness.  
Skin contact: Causes skin irritation  
Ingestion: May cause central nervous system (CNS) depression.

### Symptoms associated with the physical, chemical and toxicological properties

Eye contact: Pain or irritation, lacrimation, redness  
Inhalation: Irritation of the respiratory tract, cough, nausea or vomiting, headache,  
Drowsiness/fatigue, dizziness/fear of heights, unconsciousness  
Skin contact: Irritation, redness  
Ingestion: No specific data

## SECTION 12: Environmental information

### 12.1 Toxicity

#### Aquatic toxicity

CAS: 11-76-2

#### 2-Butoxyethanol

EC50 Acute >1000 mg/l/48h Fresh water (Daphnia - Daphnia magna)  
LC50 Acute 800000 µg/l/48h Seawater (crustaceans - Crangon crangon)  
LC50 Acute 1250 ppm/96h seawater (fish - Menidia beryllina)

CAS: 5989 -27 -5

#### (R)-p-Mentha-1,8-diene

EC50 Acute 421 µg/l/48h Fresh water (Daphnia - Daphnia magna)  
EC50 Acute 688 µg/l/96h fresh water (fish - Pimephales promelas - juvenile)

Ecology - General:

The product is not considered harmful to aquatic organisms nor does it cause long-term damage to the environment.

Hazardous to the aquatic environment, short-term (acute):  
Hazardous to the aquatic environment, long term (chronic):

Not classified  
Not classified

### 12.2 Persistence and degradability

Not available

### 12.3 Bioaccumulative potential

CAS: 11-76-2

#### 2-Butoxyethanol

Partition coefficient 0. 81 [---] (log Pow) (Bioaccumulation)  
Bioconcentration factor (BCF) Not available  
Bioaccumulative potential low



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**CAS: 5989 -27 -5**

**(R)-p-Mentha-1,8-diene**

Partition coefficient 4.38 [---] (log Pow) (Bioaccumulation)

Bioconcentration factor (BCF) Not available

Bioaccumulative potential high

## 12.4 Mobility in soil

No further information available.

## 12.5 Result of PBT and vPvB assessment

This mixture does not contain any substances classified as PBT or vPvB.

## 12.6 Endocrine disrupting properties

No further information available.

## 12.7 Other adverse effects

No further information available.

## SECTION 13: Handling and storage

The information in this section contains general advice and guidance. The list of identified uses in Section 1 should be consulted for any application-specific information in the exposure scenario(s).

### 13.1 Waste treatment processes

#### Recommendation:

Waste generation should be avoided or minimised wherever possible. Disposal of this product and its solutions and by-products must at all times comply with environmental protection requirements and waste disposal legislation and the requirements of local authorities.

must be carried out. Dispose of surpluses and products not suitable for recycling via a recognised waste disposal company. Do not discharge waste untreated into the sewerage system unless all applicable regulations of the authorities are complied with

Hazardous waste: The classification may fulfil the criteria for hazardous waste.

#### Waste code number:

15 01 04Metal packaging

15 01 02Packaging made of plastic

#### European Waste Catalogue:

16 05 04\* gases in pressurised containers containing dangerous substances (including halons)

#### Uncleaned packaging:

Waste generation should be avoided or minimised wherever possible. Packaging waste should be recycled. Incineration or landfill should only be considered if recycling is not feasible.

Waste and containers must be disposed of in a safe manner. Empty containers and linings may contain product residues. Do not puncture or incinerate containers .

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## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR	UN 1950
IMDG	UN 1950
IATA	UN 1950

### 14.2 Proper UN-shipping name

ADR	PRESSURISED GAS PACKAGING
IMDG	AEROSOLS
IATA	Pressurised gas packagings, flammable

### 14.3 Transport hazard classes

ADR	2
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IMDG	2.1
------	-----



IATA	2.1
------	-----



### 14.4 Packaging group

According to ADR / IMDG / IATA no dangerous goods in the sense of the transport regulations.

### 14.5 Environmental hazards

ADR	No. Not available.
IMDG	No. Not available.
IATA	No.

### Indicators for environmentally hazardous substances

ADR/RID: **Limited quantity** 1 litre  
**Special provisions** 190, 327, 625, 344  
**Tunnel code** (D)  
**ADR classification code:** 5F

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IMDG: **Emergency plans** F-D, S-U  
**Special provisions** 63, 190, 277, 327, 344, 381, 959

IATA: **Quantity limit** passenger and cargo aircraft: 75 kg. Packing instructions:  
203 Cargo aircraft only: 150 kg. Packing instructions: 203. limited quantities -  
Passenger aircraft: 30 kg. Packing instructions: Y203.  
**Special regulations** A145, A167, A802

## 14.6 Special precautions for the user

**Transport on the factory premises:** only transport in closed containers, that stand vertically and firmly. Persons transporting the product must be instructed on the correct behaviour in the event of accidents, leaks or spills.

## 14.7 Carriage in bulk by sea in accordance with IMO instruments

Not available.

## SECTION 15: Legislation

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

**Labelling according to Regulation (EC) No 1272/2008**

Hazard pictograms:



Signal word:  
Hazard warnings

Danger  
extremely flammable

**EC Regulation (EC) No 1907/2006 (REACH)**

Annex XIV: Not listed.

Appendix XVII:

Ingredient	%	Designation/use
Butane	≥10 - ≤25	40
Propane	≥10 - ≤25	40

Substances of very high concern (SVHC) Not listed.

**Directive 2011/65/EU (RoHS)**

Annex II: No information available

**Directive 2012/18/EU (Seveso)**

Annex I: The product is controlled under the Seveso Directive.

Hazard criteria:  
Category: P3a

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## EC Regulation (EU) 2019/1148 (Marketing and use of explosives precursors)

Annex I: Restricted precursors

No information available

Annex II Reportable precursors

No information available

## EC Regulation (EC) No 273/2004 (Drug precursors)

No information available

## National regulations:

### Water hazard class:

WGK (self-classification): 2

## Other EU regulations

### Industrial emissions (integrated pollution prevention and control) - Air

TA-Luft number 5.2.5: ≤100%

### Industrial emissions (integrated pollution prevention and control) - Water substances

No information available.

### Ozone-depleting substances (1005/2009/EU)

Not listed.

### Storage class (TRGS 510)

2B

### Water hazard class

Class: 2 Classification according to AwSV

### Prior informed consent (PIC) (649/2012/EU)

No information available.

## EC Regulation (EU) 907/2006 (Detergents)

Annex VIIA - Labelling of ingredients

Aliphatic hydrocarbons

Concentration: 30% and above

(R)-p-Mentha-1,8-diene

Concentration: below 5%

## Major Accidents Ordinance

This product is subject to the German Hazardous Incident Ordinance

Category P3a

Reference number 1.2.3.1

## VOC content:

95,16 %

659.5 g/L

## 15.2 Chemical safety assessment

Completed.

## SECTION 16: Other notes

The information is based on our current state of knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship. The classification of the mixture was made by calculation according to the rules of Annex I of Regulation (EC) No. 1272/2008.

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## 16.1 Change notes

None.

## 16.2 Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS No.	Chemical Abstract Service - Number
CLP	Regulation on classification, labelling and packaging [Regulation (EC) No 1272/2008].
COD	Chemical oxygen demand (COD)
DMEL	Derived exposure level with minimal impairment
DNEL	Derived exposure level without impairment
EC50	Medium effective concentration
ED	Endocrine disrupting properties
EC no.	European Community Number
EN	European standard
EUH rate	CLP-specific hazard statement
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IARC	International Agency for Research on Cancer
IATA	Association for international air transport
IMDG	Dangerous goods regulations for international sea transport
LC50	Lethal concentration for 50 % of a test population
LD50	Lethal dose for 50 % of a test population (median lethal dose)
LOAEL	Lowest dose with observable adverse effect
N.A.G.	Not otherwise specified
NOAEC	Concentration without observable harmful effect
NOAEL	Dose without observable adverse effect

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NOEC	Highest tested concentration with no observed adverse effect
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational exposure limit
PBT	Persistent, bioaccumulative and toxic substance
PNEC	Estimated non-effect concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations for the International Carriage of Dangerous Goods by Rail
SDS	Safety data sheet
STP	Sewage treatment plant
ThSB	Theoretical oxygen demand (ThOD)
TLM	Median tolerance limit
TLV-STEL	Threshold limit value- short-time exposure limit
TLV-TWA	Threshold limit value- time-weighted average
TRGS	Technical rules for hazardous substances
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative

## 16.3 Important literature references and data sources

No details.

## 16.4 Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP/GHS].

Aerosol 1, H222, H229 Based on test data  
Skin Irrit. 2, H315 Calculation method  
Eye Irrit. 2, H319 Calculation method  
STOT SE 3, H336 Calculation method  
Aquatic Chronic 2, H411 Calculation method

## 16.5 Wording of H and EUH phrases (number and full text)

H220 Extremely flammable gas.  
H222, H229 Extremely flammable material. Pressurized container: May burst if heated.  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H280 Contains gas under pressure: may explode if heated  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.

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H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

## 16.6 Full text of the classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aerosol 1	AEROSOL - Category 1
Aquatic Acute 1	SHORT TERM (ACUTE) HAZARDOUS TO WATER - Category 1
Aquatic Chronic 2	LONG TERM (CHRONIC) HAZARDOUS TO WATER - Category 2
Aquatic Chronic 3	LONG TERM (CHRONIC) HAZARDOUS TO WATER - Category 3
Asp. Tox 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Gas 1A	FLAMMABLE GASES - Category 1A
Flam Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam Liq. 3	FLAMMABLE LIQUIDS - Category 3
Press. Gas (Comp.)	GASES UNDER PRESSURE - Compressed gas
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2 Skin
Sens. 1B	SKIN SENSITISATION - Category 1B
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

## Note for the reader

To the best of our knowledge, the information contained herein is correct. However, neither the above-mentioned manufacturer nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. Final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. Although certain risks are described herein, we cannot guarantee that these are the only possible risks.