

Safety Data Sheet

according to UK REACH Regulation

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Print date: 13.03.2023

Revision date: 01.03.2023

VCQ 10

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

1.1. Product identifier

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

Use of the substance/mixture

Aerosol

Washing and cleaning products (including solvent based products)

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	Meusburger Georg GmbH & Co KG	
Street:	Kesselstrasse 42	
Place:	A-6960 Wolfurt	
Telephone:	+43 5574 6706-0	Telefax: +43 5574 6706-12
e-mail:	office@meusburger.com	
Internet:	www.meusburger.com	
Responsible Department:	Dr. Gans-Eichler Chemieberatung GmbH Otto-Hahn-Str. 36 D-48161 Muenster	e-mail: info@tge-consult.de Tel.: +49 2534 41594-0 www.tge-consult.de

1.4. Emergency telephone number:

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

Further Information

Safety Data Sheet according to UK-REACH Regulation

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aerosol 1; H222-H229

Skin Irrit. 2; H315

Eye Irrit. 2; H319

STOT SE 3; H336

Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane

acetone; propan-2-one; propanone

propan-2-ol; isopropyl alcohol; isopropanol

Signal word: Danger

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Pictograms:



Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P273	Avoid release to the environment.
P391	Collect spillage.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Special labelling of certain mixtures

EUH208	Contains (R)-p-mentha-1,8-diene; d-limonene. May produce an allergic reaction.
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2.3. Other hazards

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to UK REACH.

This product does not contain a substance (> 0.1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity
EC No	GHS Classification	
REACH No		
Index No		
64742-49-0		
927-510-4	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
01-2119475515-33		
	Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane	25 - 50 %

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921-024-6 01-2119475514-35	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411	
67-64-1 200-662-2 01-2119471330-49 606-001-00-8	acetone; propan-2-one; propanone Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	10 - < 20 %
75-28-5 200-857-2 01-2119485395-27 601-004-00-0	isobutane Flam. Gas 1, Compressed gas; H220 H280	<= 10 %
124-38-9 204-696-9	carbon dioxide Compressed gas; H280	<= 5 %
67-63-0 200-661-7 01-2119457558-25 603-117-00-0	propan-2-ol; isopropyl alcohol; isopropanol Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	<= 5 %
5989-27-5 227-813-5 01-2119529223-47 601-096-00-2	(R)-p-mentha-1,8-diene; d-limonene Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 3; H226 H315 H317 H304 H400 H412	< 1 %

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
64742-49-0	927-510-4	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	25 - 50 %
		inhalation: LC50 = >20 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
	921-024-6	Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane	25 - 50 %
		inhalation: LC50 = > 25,2 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
67-64-1	200-662-2	acetone; propan-2-one; propanone	10 - < 20 %
		inhalation: LC50 = 50,1 mg/l (vapours); dermal: LD50 = > 7426 mg/kg; oral: LD50 = 5800 mg/kg	
75-28-5	200-857-2	isobutane	<= 10 %
		inhalation: LC50 = 520400 (120 min) ppm (gases)	
67-63-0	200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	<= 5 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5840 mg/kg	
5989-27-5	227-813-5	(R)-p-mentha-1,8-diene; d-limonene	< 1 %

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dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 2000 mg/kg Aquatic Acute 1; H400: M=1

Labelling for contents according to Regulation (EC) No 648/2004

>= 30 % aliphatic hydrocarbons, perfumes (Limonene).

Further Information

Product does not contain listed SVHC substances > 0.1 % according to UK REACH.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

If swallowed, immediately drink: Water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Caution if victim vomits: Risk of aspiration! Call a physician immediately.

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

Following eye contact: Causes eye irritation. Causes tears. Conjunctival redness.

Following inhalation: Irritation to respiratory tract. Cough. Nausea. Vomiting. Headache. May cause drowsiness or dizziness. Unconsciousness. Central nervous system depression.

After skin contact: Causes skin irritation. erythema (redness).

After ingestion: Central nervous system depression.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air. Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide (CO).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains. In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Ventilate affected area. Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion hazard. Eliminate leaks immediately. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Take precautionary measures against static discharges. Do not spray on naked flames or any incandescent material. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Heating causes rise in pressure with risk of bursting.

Advice on general occupational hygiene

Always close containers tightly after the removal of product.

Do not eat, drink, smoke or sneeze at the workplace.

Wash hands before breaks and after work.

Further information on handling

General protection and hygiene measures: refer to chapter 8

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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep away from sources of ignition. - No smoking.
Provide adequate ventilation.

Hints on joint storage

Do not store together with: Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. Self-reactive substances and mixtures. Organic peroxides. Radioactive substances.
Infectious substances.

Further information on storage conditions

Recommended storage temperature: 10-30 °C. Do not store at temperatures over: 50 °C
Note: Storage requirements for flammable aerosols.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
124-38-9	Carbon dioxide	5000	9150		TWA (8 h)	WEL
		15000	27400		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics			
	Worker DNEL, acute	inhalation	systemic	2085 mg/m ³
	Worker DNEL, long-term	dermal	systemic	300 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	447 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	147 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	149 mg/kg bw/day
	Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane			
	Worker DNEL, long-term	inhalation	systemic	2 035 mg/m ³
	Worker DNEL, long-term	dermal	systemic	773 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	608 mg/m ³

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Consumer DNEL, long-term	dermal	systemic	699 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	699 mg/kg bw/day
67-64-1	acetone; propan-2-one; propanone		
Worker DNEL, acute	inhalation	local	2420 mg/m ³
Worker DNEL, long-term	dermal	systemic	186 mg/kg bw/day
Worker DNEL, acute	inhalation	systemic	2420 mg/m ³
Worker DNEL, long-term	inhalation	systemic	1210 mg/m ³
Consumer DNEL, long-term	oral	systemic	62 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	62 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	200 mg/m ³
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol		
Worker DNEL, long-term	inhalation	systemic	500 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	89 mg/m ³
Worker DNEL, long-term	dermal	systemic	888 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	26 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	319 mg/kg bw/day
64-17-5	ethanol, ethyl alcohol		
Worker DNEL, acute	inhalation	local	1900 mg/m ³
Worker DNEL, long-term	dermal	systemic	343 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	950 mg/m ³
Consumer DNEL, acute	inhalation	local	950 mg/m ³
Consumer DNEL, long-term	dermal	systemic	206 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	114 mg/m ³
Consumer DNEL, long-term	oral	systemic	87 mg/kg bw/day
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene		
Worker DNEL, long-term	inhalation	systemic	66,7 mg/m ³
Worker DNEL, long-term	dermal	systemic	9,5 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	16,6 mg/m ³
Consumer DNEL, long-term	dermal	systemic	4,8 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	4,8 mg/kg bw/day

PNEC values

CAS No	Substance	Value
	Environmental compartment	
67-64-1	acetone; propan-2-one; propanone	
	Freshwater	10,6 mg/l
	Freshwater (intermittent releases)	21 mg/l
	Marine water	1,06 mg/l
	Freshwater sediment	30,4 mg/kg
	Marine sediment	3,04 mg/kg

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Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	29,5 mg/kg
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol
Freshwater	140,9 mg/l
Freshwater (intermittent releases)	140,9 mg/l
Marine water	140,9 mg/l
Freshwater sediment	552 mg/kg
Marine sediment	552 mg/kg
Secondary poisoning	160 mg/kg
Micro-organisms in sewage treatment plants (STP)	2251 mg/l
Soil	28 mg/kg
64-17-5	ethanol, ethyl alcohol
Freshwater	0,96 mg/l
Freshwater (intermittent releases)	2,75 mg/l
Marine water	0,79 mg/l
Marine water (intermittent releases)	2,75 mg/l
Freshwater sediment	3,6 mg/kg
Marine sediment	2,9 mg/kg
Secondary poisoning	0,72 mg/kg
Micro-organisms in sewage treatment plants (STP)	580 mg/l
Soil	0,63 mg/kg
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene
Freshwater	0,014 mg/l
Marine water	0,0014 mg/l
Freshwater sediment	3,85 mg/kg
Marine sediment	0,385 mg/kg
Secondary poisoning	133 mg/kg
Micro-organisms in sewage treatment plants (STP)	1,8 mg/l
Soil	0,763 mg/kg

8.2. Exposure controls



Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment

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Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible).

Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves.

Suitable material:

Butyl rubber. (0,5 mm)

Breakthrough time >480 min

Penetration time (maximum wearing period): >160 min

The selected protective gloves have to satisfy the specifications of the Personal Protective Equipment at Work (Amendment) Regulations 2022 and the standard EN ISO 374.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Exceeding exposure limit values

Insufficient ventilation

Suitable respiratory protective equipment: Protective respiration apparatus not using surrounding air (breathing apparatus) (DIN EN 133).

Use only respiratory protection equipment with CE-symbol including four digit test number.

Thermal hazards

No special precautionary measures are necessary.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol	
Colour:	colourless	
Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:		not determined
Lower explosion limits:		1,5 vol. %
Upper explosion limits:		-
Flash point:		not relevant
Auto-ignition temperature:		>200 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		not miscible

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Solubility in other solvents	
not determined	
Dissolution rate:	not relevant
Partition coefficient n-octanol/water:	not determined
Dispersion stability:	not relevant
Vapour pressure:	not determined
Density (at 20 °C):	0,699 g/cm ³
Bulk density:	not determined
Relative vapour density:	not determined
Particle characteristics:	not relevant

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Sustaining combustion:

No data available

Self-ignition temperature

Solid:

not relevant

Gas:

not determined

Oxidizing properties

none

Other safety characteristics

Evaporation rate:

not determined

Solvent separation test:

not determined

Solvent content:

97,4%

Solid content:

not determined

Sublimation point:

not determined

Softening point:

not determined

Pour point:

not determined

Viscosity / dynamic:

not determined

Flow time:

not determined

Further Information

Chemical heat of combustion in kJ/g: 9,394

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Refer to chapter 10.5.

10.4. Conditions to avoid

Keep away from heat.

Ignition hazard.

Heating causes rise in pressure with risk of bursting.

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10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

Further information

In use, may form flammable/explosive vapour-air mixture.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics				
	oral	LD50 >5000 mg/kg	Rat	ECHA dossier	
	dermal	LD50 >2000 mg/kg	Rat	ECHA dossier	
	inhalation (4 h) vapour	LC50 >20 mg/l	Rat	ECHA dossier	
	Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane				
	oral	LD50 >2000 mg/kg	Rat.	ECHA dossier	read-across
	dermal	LD50 >2000 mg/kg	Rabbit	ECHA dossier	read-across
	inhalation (4 h) vapour	LC50 > 25,2 mg/l	Rat.	ECHA dossier	OECD 403
67-64-1	acetone; propan-2-one; propanone				
	oral	LD50 5800 mg/kg	Rat	J Toxicol Environ Health 15: 609-621 (19)	Undiluted acetone applied to female rats
	dermal	LD50 > 7426 mg/kg	Rabbit	Toxicol Appl Pharmacol 7: 559-565. (1965)	other: Code of federal regulations: 21 C
	inhalation (4 h) vapour	LC50 50,1 mg/l	Rat	RTECS	
75-28-5	isobutane				
	inhalation gas	LC50 520400 (120 min) ppm	Mouse.	ECHA dossier	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50 5840 mg/kg	Rat	ECHA dossier	
	dermal	LD50 > 5000 mg/kg	Rabbit	ECHA dossier	
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene				

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	oral	LD50 mg/kg	> 2000	Rat	ECHA dossier	OECD 423
	dermal	LD50 mg/kg	> 5000	Rabbit	ECHA dossier	Read-across

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

Contains (R)-p-mentha-1,8-diene; d-limonene. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

In-vitro mutagenicity:

Method: -

Result: negative.

Literature information: ECHA dossier

Reproductive toxicity: (inhalation.)

Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

Species: Rat

Result: NOAEL = 20000 mg/m3

Literature information: ECHA dossier

Developmental toxicity/teratogenicity: (inhalation.)

Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Species: Rabbit

Exposure duration: 20 d.

Result: NOAEL = 23900 mg/m3

Literature information: ECHA dossier

Carcinogenicity:

Method: -

Species: Mouse

Exposure duration: approx. 2 years

Result: negative.

Literature information: ECHA dossier

Acetone:

Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents);

Species: Mouse.; Exposure duration: 90d; Result: NOAEL = 4858 mg/kg

Literature information: ECHA dossier

In-vitro mutagenicity: Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test); Result:

negative.

Literature information: ECHA dossier

No indications of human carcinogenicity exist.

Literature information: ECHA dossier

Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study) ;

Species: Rat; Exposure duration: 14d; Result: NOAEL = 11000 ppm

Literature information: ECHA dossier

isobutane:

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In vitro mutagenicity/genotoxicity: No experimental indications of mutagenicity in-vitro exist. Reproductive toxicity: NOAEC = 3000 ppm (OECD Guideline 422) Developmental toxicity/teratogenicity: NOAEC = 9000 ppm (OECD Guideline 422)
Literature information: ECHA dossier

propan-2-ol; isopropyl alcohol; isopropanol:

In-vitro mutagenicity:

Method:

-OECD Guideline 471 (Bacterial Reverse Mutation Assay)

-OECD Guideline 474: Mammalian Erythrocyte Micronucleus Test

Result: negative.

Literature information: ECHA dossier;

Carcinogenicity: No indications of human carcinogenicity exist.

Literature information: ECHA dossier

Reproductive toxicity:

Method: OECD Guideline 415 (One-Generation Reproduction Toxicity Study)

Species: Rat

Result: NOAEL = 853 mg/kg

Literature information: ECHA dossier

Developmental toxicity/teratogenicity:

Method: (oral.) OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Species: Rabbit

Result: NOAEL = 480 mg/kg

Literature information: ECHA dossier

STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane)

STOT-repeated exposure

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

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics:

Subchronic inhalation toxicity:

Method: OECD Guideline 453 (Combined Chronic Toxicity/Carcinogenicity Studies)

Species: Mouse

Exposure duration: 2 years

Result: NOAEC = 1402 mg/m³

Literature information: ECHA dossier

Subacute oral toxicity:

Method: -

Species: Rat

Exposure duration: 28 d

Results: NOAEL < 500 mg/kg

Literature information: ECHA dossier

Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane:

Subacute inhalative toxicity:

Method: -

Species: Rat

Exposure duration: 3 d.

Result: NOAEC = 4200 mg/m³.

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Literature information: ECHA dossier

Acetone:

Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents);

Species: Mouse.; Exposure duration: 90d; Result: NOAEL = 4858 mg/kg

Literature information: ECHA dossier

isobutane:

Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test); Result: NOAEC = 4000 ppm

Literature information: ECHA dossier

propan-2-ol; isopropyl alcohol; isopropanol:

Chronic inhalative toxicity (Rat): NOAEC = 5000 ppm (OECD 451)

Literature information: ECHA dossier

Aspiration hazard

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

Specific effects in experiment on an animal

No information available.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance (> 0.1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other information

No data available.

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested.

CAS No	Chemical name		Aquatic toxicity		Dose	[h] [d]	Species	Source	Method
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics		Acute fish toxicity		LC50 >13,4 mg/l	96 h	Oncorhynchus mykiss	ECHA dossier	
			Acute algae toxicity		ErC50 10-30 mg/l	72 h	Pseudokirchnerella subcapitata	ECHA dossier	
			Acute crustacea toxicity		EC50 mg/l	48 h	Daphnia magna	ECHA dossier	
	Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane		Acute fish toxicity		LC50 mg/l	96 h	Oncorhynchus mykiss	ECHA dossier	OECD 203
			Acute algae toxicity		ErC50 30 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA dossier	OECD 201
			Acute crustacea toxicity		EC50 3 mg/l	48 h	Daphnia magna	ECHA dossier	OECD 202
67-64-1	acetone; propan-2-one; propanone		Acute fish toxicity		LC50 mg/l	96 h	Pimephales promelas	Publication (1984)	OECD Guideline 203

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	Acute crustacea toxicity	EC50 mg/l	8800	48 h	Daphnia pulex	Publication (1978)	The toxicity of acetone towards daphnids
	Crustacea toxicity	NOEC mg/l	2212	28 d	Daphnia magna	Arch Environm Contam Toxicol 12: 305-310	Study conducted comparable to OECD 211 w
	Acute bacteria toxicity	(EC50 mg/l)	61150	0,5 h	activated sludge of a predominantly domestic sewage	Water Res 26: 887-892 (1992)	ISO 8192
75-28-5	isobutane						
	Acute fish toxicity	LC50 mg/l	49,9	96 h	Fish	ECHA dossier	
	Acute algae toxicity	ErC50 mg/l	19,37	96 h	algae	ECHA dossier	
	Acute crustacea toxicity	EC50 mg/l	69,43	48 h	Daphnia magna	ECHA dossier	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol						
	Acute fish toxicity	LC50 mg/l	10000	96 h	Pimephales promelas	ECHA dossier	OECD 203
	Acute algae toxicity	ErC50 mg/l	1800		Scenedesmus quadricauda	ECHA dossier	
	Acute crustacea toxicity	EC50 mg/l	>10000	48 h	Daphnia magna (24h)	ECHA dossier	OECD 202
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene						
	Acute fish toxicity	LC50 mg/l	0,72	96 h	Pimephales promelas	ECHA dossier	OECD 203
	Acute algae toxicity	ErC50 mg/l	0,32	72 h	Pseudokirchneriella subcapitata	ECHA dossier	OECD 201
	Acute crustacea toxicity	EC50 mg/l	0,307	48 h	Daphnia magna	ECHA dossier	OECD 202
	Acute bacteria toxicity	(EC50 mg/l)	209	3 h		ECHA dossier	

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
64742-49-0	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	OECD 301F / ISO 9408 / EEC 92/69/V, C.4-D	98%	28	ECHA dossier
	Readily biodegradable (according to OECD criteria).				
	Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	98%	28	ECHA dossier
	Easily biodegradable (concerning to the criteria of the OECD)				
67-64-1	acetone; propan-2-one; propanone	OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C	90%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)				
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				

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	EU Method C.5/ EU Method C.6	53%	5	ECHA dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene			
	OECD 301D / EEC 92/69 annex V, C.4-E	80 %	28	ECHA dossier
	Easily biodegradable (concerning to the criteria of the OECD)			

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
	Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane	2,89
67-64-1	acetone; propan-2-one; propanone	-0,23
75-28-5	isobutane	1,09
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	0,05
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene	4,38

BCF

CAS No	Chemical name	BCF	Species	Source
67-64-1	acetone; propan-2-one; propanone	3		Unpublished calculat
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene	864,8		ECHA dossier

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

12.7. Other adverse effects

Danger to drinking water is already existing with extremely small quantities leaking into the ground.

Toxic to fish.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

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List of Wastes Code - used product

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2.1



Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1 L
 Excepted quantity: E0
 Transport category: 2
 Tunnel restriction code: D

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2.1



Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1 L
 Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -

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Hazard label: 2.1

 Marine pollutant: YES
 Special Provisions: 63, 190, 277, 327, 344, 381, 959
 Limited quantity: 1000 mL
 Excepted quantity: E0
 EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS, flammable
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
 Hazard label: 2.1


Special Provisions: A145 A167 A802
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y203
 Excepted quantity: E0
 IATA-packing instructions - Passenger: 203
 IATA-max. quantity - Passenger: 75 kg
 IATA-packing instructions - Cargo: 203
 IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane

14.6. Special precautions for user

Refer to section 6 - 8

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 29, Entry 40, Entry 75

2010/75/EU (VOC): 97,44%

2004/42/EC (VOC): 681,4 g/l

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Information according to 2012/18/EU (SEVESO III): P3a FLAMMABLE AEROSOLS
 Additional information: E2

Additional information

Safety Data Sheet according to UK-REACH Regulation
 UK Aerosols Regulation
 UK REACH Appendix XVII, No (mixture): 3, 40
 The mixture is classified as hazardous according to GHS (GB CLP).

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
 Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
 Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
 Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclics, <5% n-hexane
 acetone; propan-2-one; propanone
 isobutane
 propan-2-ol; isopropyl alcohol; isopropanol
 (R)-p-mentha-1,8-diene; d-limonene

SECTION 16: Other information

Changes

Rev. 1,0; Initial release 24.04.2018
 Rev. 1,1; Changes in chapter: 1,3 13.09.2018
 Rev. 2,0; Revision 03.04.2020 Changes in chapter: 2-16
 Rev. 3,0; Revision 01.03.2023 Changes in chapter: 1-16

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 CAS: Chemical Abstracts Service
 CLP: Classification, Labeling, Packaging
 DNEL: Derived No Effect Level
 d: day(s)
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 ECHA: European Chemicals Agency
 ECOSAR: Ecological Structure Activity Relationships
 EWC: European Waste Catalogue
 IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organization
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 IUCLID: International Uniform Chemical Information Database
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

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OECD: Organisation for Economic Co-operation and Development
 PNEC: Predicted No Effect Concentration
 PBT: Persistent, bio-cumulative, toxic
 QSAR: Quantitative Structure-Activity Relationship
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
 RTECS: Registry of Toxic Effects of Chemical Substances
 SVHC: Substance of Very High Concern
 TRGS: Technische Regeln für Gefahrstoffe
 UN: United Nations
 vPvB: very persistent and very bio-cumulative
 VOC: Volatile Organic Compounds
 w: week(s)

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Skin Irrit. 2; H315	Bridging principle "Aerosols"
Eye Irrit. 2; H319	Bridging principle "Aerosols"
STOT SE 3; H336	Bridging principle "Aerosols"
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
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.
EUH208	Contains (R)-p-mentha-1,8-diene; d-limonene. May produce an allergic reaction.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)