

SAFETY DATA SHEET according to Regulation 1907/2006

Product name: **Klebereste Entferner**

Creation date: **6.12.2017** · Revision: **21.3.2018** · Version: **1**

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name

Klebereste Entferner (Art. 2115)

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

Relevant identified uses

Cleaning agent.

Uses advised against

No information.

1.3. Details of the supplier of the safety data sheet

Manufacturer

FOLIATEC Böhm GmbH & Co Vertriebs KG
Neumeyerstr. 70
D - 90411 Nürnberg
Tel: 0049911975440
Fax: 004991197544366
Website: www.foliatec.de
E-Mail: techsupport@foliatec.de

1.4. Emergency telephone number

Supplier

+49 - 91 19 75 44 - 0
(monday to friday, 08:00 – 17:00 o'clock)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Aerosol 1; H222 Extremely flammable aerosol.
Aerosol 1; H229 Pressurised container: May burst if heated.
Asp. Tox. 1; H304 May be fatal if swallowed and enters airways.
Skin Irrit. 2; H315 Causes skin irritation.
Skin Sens. 1; H317 May cause an allergic skin reaction.
Eye Irrit. 2; H319 Causes serious eye irritation.
STOT SE 3; H336 May cause drowsiness or dizziness.
Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

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2.2 Label elements

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



Signal word: **Danger**

H222 Extremely flammable aerosol.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

H229 Pressurised container: May burst if heated.

P102 Keep out of reach of children.

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.

P301 + P310 + P331 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting.

P302 + P352 + P362 + P364 IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.

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

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

P501 Dispose of contents/container in accordance with national regulation.

2.2.2. Contains:

propan-2-ol (CAS: 67-63-0, EC: 200-661-7, Index: 603-117-00-0)

orange, sweet, ext. (CAS: 8028-48-6, EC: 232-433-8)

2.2.3. Special provisions

Special hazards are not known or expected.

2.3. Other hazards

No information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product description

Hydrocarbons with a propellant.

3.1. Substances

For mixtures see 3.2.

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3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	REACH Registration No.
propan-2-ol	67-63-0 200-661-7 603-117-00-0	25-50	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	01-2119457558-25
orange, sweet, ext.	8028-48-6 232-433-8 -	10-25	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	01-2119493353-35
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	64742-49-0 927-510-4 -	10-25	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	01-2119475515-33
isobutane [C, S]	75-28-5 200-857-2 601-004-00-0	2,5-10	Flam. Gas 1; H220 Press. Gas; H280	01-2119485395-27
carbon dioxide	124-38-9 204-696-9 -	2,5-10	Press. Gas; H280	-
propane	74-98-6 200-827-9 601-003-00-5	2,5-10	Flam. Gas 1; H220 Press. Gas; H280	01-2119486944-21
n-hexane	110-54-3 203-777-6 601-037-00-0	<1	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361f STOT RE 2; H373 Aquatic Chronic 2; H411	-

Notes for substances:

C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
S	This substance may not require a label according to Article 17 (see section 1.3 of Annex I) (Table 3.1). This substance may not require a label according to Article 23 of Directive 67/548/EEC (see section 8 of Annex VI to that Directive) (Table 3.2).

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General notes

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency.
No action shall be taken involving any personal risk or without suitable training.

Following inhalation

If symptoms occur, seek medical advice. Remove patient to fresh air - move out of dangerous area. Keep at rest in a position comfortable for breathing. If breathing is irregular or respiratory arrest occurs provide artificial respiration. In case of unconsciousness bring patient into stable side position and seek medical attention.

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Following skin contact

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention. Wash contaminated clothes and shoes before reuse.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

Following ingestion

Not likely. Accidental ingestion: Do not induce vomiting! Immediately consult a doctor. Show the physician the safety data sheet or label. Never give anything by mouth to an unconscious person.

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

Inhalation

Vapours may cause drowsiness and dizziness.
Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.
Coughing, sneezing, nasal discharge, labored breathing.

Skin contact

May cause sensitisation by skin contact (itching, redness, rashes).
Irritating to the skin.
Itching, redness, pain.

Eye contact

Strongly irritates the eyes.
Redness, tearing, pain.

Ingestion

Ingestion is unlikely because it is an aerosol.
Accidental ingestion:
May cause nausea/vomiting and diarrhea.
May be fatal if swallowed and enters airways.

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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO₂).

5.3. Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area. In case of fire aerosols can explode and be propelled to considerable distances in different directions.

Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

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Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Emergency procedures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking! Prevent access to unauthorised personnel. Prevent access to unprotected personnel. Avoid contact with skin and eyes. Do not breathe vapour or mist.

6.1.2. For emergency responders

Use personal protective equipment.

6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental entry into water or ground occurs, inform responsible authorities.

6.3. Methods and material for containment and cleaning up

6.3.1. For containment

Stem the spill if this does not pose risks.

6.3.2. For cleaning up

Collect the spray cans and hand them over to an authorized waste disposal contractor. Release of liquid because of damaged aerosol can (release of large quantities): Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Do not absorb spillage with sawdust or other combustible material. Dispose in accordance with applicable regulations (see Section 13). Clean residue from spill site.

6.3.3. Other information

See Section 7: safe handling.

6.4. Reference to other sections

See also Sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Protective measures

Measures to prevent fire

Ensure adequate ventilation. Take precautionary measures against static discharges. Keep away from sources of ignition - no smoking. Use spark-proof tools. Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or incandescent material.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Avoid release to the environment.

7.1.2. Advice on general occupational hygiene

Wear suitable protective equipment; see Section 8. Refer to instructions on label and regulations for safety and health at work. Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Consider measures required in Section 8 of this safety data sheet.

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7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

Store in accordance with local regulations. Keep in well closed containers. Keep in cool and well ventilated area. Protect from open fire, heat and direct sunlight. Keep away from sources of ignition. Keep away from oxidising substances. Keep away from food, drink and animal feeding stuffs.

7.2.2. Packaging materials

The original container of producer.

7.2.3. Requirements for storage rooms and vessels

Do not store in unlabelled containers.

7.2.4. Storage class

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7.2.5. Further information on storage conditions

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7.3. Specific end use(s)

Recommendations

-

Industrial sector specific solutions

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Occupational exposure limit values

Name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m ³ (ppm)	mg/m ³	ml/m ³ (ppm)	mg/m ³		
Carbon dioxide (124-38-9)	5000	9150	15000	27400		
n-Hexane (110-54-3)	20	72	-	-		
Propan-2-ol (67-63-0)	400	999	500	1250		

8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents.

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8.1.3. DNEL/DMEL values

For components

Name	Type	Exposure route	Exposure frequency	Value	Remark
propan-2-ol (67-63-0)	Worker	inhalation	long term (systemic effects)	500 mg/m ³	
propan-2-ol (67-63-0)	Worker	dermal	long term (systemic effects)	888 mg/kg bw/day	
propan-2-ol (67-63-0)	Consumer	inhalation	long term (systemic effects)	89 mg/m ³	
propan-2-ol (67-63-0)	Consumer	dermal	long term (systemic effects)	319 mg/kg bw/day	
propan-2-ol (67-63-0)	Consumer	oral	long term (systemic effects)	26 mg/kg bw/day	
orange, sweet, ext. (8028-48-6)	Worker	inhalation	long term (systemic effects)	31,1 mg/m ³	
orange, sweet, ext. (8028-48-6)	Worker	dermal	long term (systemic effects)	8,89 mg/kg bw/day	
orange, sweet, ext. (8028-48-6)	Worker	dermal	long term (local effects)	185,8 µg/cm ²	
orange, sweet, ext. (8028-48-6)	Consumer	inhalation	long term (systemic effects)	7,78 mg/m ³	
orange, sweet, ext. (8028-48-6)	Consumer	dermal	long term (systemic effects)	4,44 mg/kg bw/day	
orange, sweet, ext. (8028-48-6)	Consumer	dermal	long term (local effects)	92,2 µg/cm ²	
orange, sweet, ext. (8028-48-6)	Consumer	oral	long term (systemic effects)	4,44 mg/kg bw/day	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Worker	inhalation	long term (systemic effects)	2085 mg/m ³	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Worker	dermal	long term (systemic effects)	300 mg/kg bw/day	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Consumer	inhalation	long term (systemic effects)	447 mg/m ³	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Consumer	dermal	long term (systemic effects)	149 mg/kg bw/day	
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Consumer	oral	long term (systemic effects)	149 mg/kg bw/day	

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8.1.4. PNEC values

For components

Name	Exposure route	Value	Remark
propan-2-ol (67-63-0)	fresh water	140,9 mg/L	
propan-2-ol (67-63-0)	water, intermittent release	140,9 mg/L	
propan-2-ol (67-63-0)	marine water	140,9 mg/L	
propan-2-ol (67-63-0)	water treatment plant	2251 mg/L	
propan-2-ol (67-63-0)	fresh water sediment	552 mg/kg	dry weight
propan-2-ol (67-63-0)	marine water sediment	552 mg/kg	dry weight
propan-2-ol (67-63-0)	soil	28 mg/kg	dry weight
propan-2-ol (67-63-0)	food chain	160 mg/kg feed	oral
orange, sweet, ext. (8028-48-6)	fresh water	5,4 µg/l	
orange, sweet, ext. (8028-48-6)	water, intermittent release	5,77 µg/l	
orange, sweet, ext. (8028-48-6)	marine water	0,54 µg/l	
orange, sweet, ext. (8028-48-6)	water treatment plant	2,1 mg/L	
orange, sweet, ext. (8028-48-6)	fresh water sediment	1,3 mg/kg	dry weight
orange, sweet, ext. (8028-48-6)	marine water sediment	0,13 mg/kg	dry weight
orange, sweet, ext. (8028-48-6)	soil	0,261 mg/kg	dry weight

8.2. Exposure controls

8.2.1. Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Do not breathe vapours/aerosols. Keep away from foodstuffs, beverages and feed. Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation.

Organisational measures to prevent exposure

If this product contains ingredients with exposure limits, personal, workplace atmosphere monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protection.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

8.2.2. Personal protective equipment

Eye and face protection

Safety glasses with side protection (EN 166).

Hand protection

Protective gloves (EN 374).

Skin protection

Cotton protective clothing (EN ISO 13688) and shoes that cover the entire foot (EN ISO 20345).

Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. If the concentration limit values are exceeded, it is necessary to wear appropriate respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

Thermal hazards

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8.2.3. Environmental exposure controls

Technical measures to prevent exposure

Prevent exposure in the environment.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

-	Physical state:	liquid; aerosol
-	Colour:	colourless
-	Odour:	perfumed

Important health, safety and environmental information

-	pH	No information.
-	Melting point/freezing point	No information.
-	Initial boiling point/boiling range	No information.
-	Flash point	No information.
-	Evaporation rate	No information.
-	Flammability (solid, gas)	No information.
-	Explosion limits (vol%)	1,5 – 10,9 vol %
-	Vapour pressure	2,3 hPa at 20 °C
-	Vapour density	No information.
-	Density	Density: 0,7814 g/cm ³
-	Solubility	No information.
-	Partition coefficient	No information.
-	Auto-ignition temperature	No information.
-	Decomposition temperature	No information.
-	Viscosity	No information.
-	Explosive properties	No information.
-	Oxidising properties	No information.

9.2. Other information

-	Remarks:	
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SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended transport or storage conditions.

10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3. Possibility of hazardous reactions

The product is stable under recommended storage and handling conditions.

10.4. Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not expose to heat and direct sunlight.

10.5. Incompatible materials

Oxidants.

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10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

(a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
propan-2-ol (67-63-0)	inhalation	LC ₅₀	rat	4 h	> 20 mg/l		
propan-2-ol (67-63-0)	dermal	LD ₅₀	rabbit		> 2000 mg/kg		
propan-2-ol (67-63-0)	oral	LD ₅₀	rat		> 2000 mg/kg		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	oral	LD ₅₀	rat		> 5840 mg/kg bw		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	dermal	LD ₅₀	rat		> 2920 mg/kg		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	inhalation	LC ₅₀	rat	4 h	> 23,3 mg/l		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	dermal	LD ₅₀	rat	24 h	> 2920 mg/kg bw		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	inhalation (vapours)	LC ₅₀	rat	4 h	> 23300 mg/m ³	OECD 403	

(b) Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
propan-2-ol (67-63-0)			Non-irritant.		
orange, sweet, ext. (8028-48-6)			Irritating to skin.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)			Irritating.		

Additional information: Causes skin irritation.

(c) Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
propan-2-ol (67-63-0)			Moderately irritating.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)			Not classified.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)			Contact with skin may cause irritation.		

Additional information: Causes serious eye irritation.

(d) Respiratory or skin sensitisation

Name	Exposure route	Species	Time	Result	Method	Remark
propan-2-ol (67-63-0)	-			According to known data the substance is not chemical sensitizer.		
orange, sweet, ext. (8028-48-6)	dermal			May cause sensitisation by skin contact.		

Additional information: May cause an allergic skin reaction.

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(e) (Germ cell) mutagenicity

Name	Type	Species	Time	Result	Method	Remark
propan-2-ol (67-63-0)				The chemical is not classified as mutagenic.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Genotoxicity			Negative.		

(f) Carcinogenicity

Name	Exposure route	Type	Species	Time	Value	Result	Method	Remark
propan-2-ol (67-63-0)						Substance is not classified as carcinogenic.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)						Substance is not classified as carcinogenic.		

(g) Reproductive toxicity

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
propan-2-ol (67-63-0)						The chemical is not classified as toxic for reproduction.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Reproductive toxicity	-	rat			The results of animal studies gave no indication of a fertility impairing effect.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Developmental toxicity		rat			Did not show teratogenic effects in animal experiments.		
n-hexane (110-54-3)	Reproductive toxicity	-				Suspected of damaging fertility.		

Summary of evaluation of the CMR properties

No information.

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(h) STOT-single exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	inhalation	-					May cause effects on the central nervous system.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	inhalation	-					Symptoms: nausea, unconsciousness.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	inhalation	-					Symptoms: mucous membrane irritation.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	inhalation	-					May cause respiratory irritation.		high vapours concentrations
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	oral	-					May cause irritation of the digestive tract.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	-	-					May cause drowsiness or dizziness.		
carbon dioxide (124-38-9)	inhalation	-					1 % CO ₂ in the air: slight increase in breathing rate.		
carbon dioxide (124-38-9)	inhalation	-					2 % CO ₂ in the air: a 50 % increase in breathing rate.		
carbon dioxide (124-38-9)	inhalation	-					3 % CO ₂ in the air: a two-times increase in breathing rate, decreased hearing, headache, slight narcotic effect, increased blood pressure and pulse.		
carbon dioxide (124-38-9)	inhalation	-					4–5% concentration of CO ₂ in the air: an increase in breathing rate by four times, symptoms of intoxication become noticeable, a choking feeling.		
carbon dioxide (124-38-9)	inhalation	-					5-10 % CO ₂ in the air: headache, tinnitus and dizziness; after a few minutes - loss of consciousness.		
carbon dioxide (124-38-9)	inhalation	-					10-100 % CO ₂ in the air: unconsciousness occurs rapidly at concentrations above 10%; it can be harmful or fatal.		

Additional information: May cause drowsiness or dizziness.

(i) STOT-repeated exposure

No information.

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(j) Aspiration hazard

Name	Result	Method	Remark
orange, sweet, ext. (8028-48-6)	Aspiration into the lungs can cause lung damage.		
orange, sweet, ext. (8028-48-6)	May be fatal if swallowed and enters airways.		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	Aspiration into the lungs can cause lung damage.		The exposed person should be kept under medical surveillance for 48 hours.
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	May be fatal if swallowed and enters airways.		
Additional information: May be fatal if swallowed and enters airways.			

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Acute (short-term) toxicity

For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
propan-2-ol (67-63-0)	LC/EC/IC50	100 – 1000 mg/L		fish			
	LC/EC/IC50	> 1000 mg/L		invertebrates			
	LC/EC/IC50	> 1000 mg/L		algae			
	LC/EC/IC50	> 1000 mg/L		bacteria			
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	EL ₅₀	10 – 30 mg/L	72 h	algae	<i>Selenastrum capricornutum</i>		
	ErL50	10 – 30 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	
	EbL50	10 – 30 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	
	EL ₅₀	3 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	
	LL ₅₀	> 13,4 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD 203	
	NOELR	6,3 mg/L	72 h	<i>Pseudokirchneriella subcapitata</i>		OECD 201	

12.1.2. Chronic (long-term) toxicity

For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	NOELR	1 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	
	NOELR	1,53 mg/l	28 days	fish	<i>Oncorhynchus mykiss</i>		QSAR Petrotox

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12.2. Persistence and degradability

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

12.2.2. Biodegradation

For components

Substance (CAS Nr.)	Type	Rate	Time	Evaluation	Method	Remark
propan-2-ol (67-63-0)	biodegradability	84 %	28 days			closed cup
orange, sweet, ext. (8028-48-6)	-			readily biodegradable		
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (64742-49-0)	biodegradability	98 %	28 days	readily biodegradable	OECD 301F	

12.3. Bioaccumulative potential

12.3.1. Partition coefficient

For components

Substance (CAS Nr.)	Media	Value	Temperature	pH	Concentration	Method
propan-2-ol (67-63-0)	Octanol-water	0,05				

12.3.2. Bioconcentration factor (BCF)

No information.

12.4. Mobility in soil

12.4.1. Known or predicted distribution to environmental compartments

No information.

12.4.2. Surface tension

No information.

12.4.3. Adsorption/Desorption

No information.

12.5. Results of PBT and vPvB assessment

No evaluation.

12.6. Other adverse effects

No information.

12.7. Additional information

For product

Toxic to aquatic life with long lasting effects.

Water hazard class 3 (Self-assessment): very hazardous for water.

Avoid release to the environment.

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For components

Substance: **propan-2-ol**

Low bioaccumulation potential.

Soluble in water.

It evaporates or dissolves in water within 24 hours. Larger amounts can penetrate the soil and pollute groundwater.

Substance: **orange, sweet, ext.**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Danger to drinking water if even small quantities leak into ground water.

Substance: **hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

Substance: **carbon dioxide**

When discharged in large quantities may contribute to the greenhouse effect (GWP=1).

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal

Waste chemical

Avoid release to the environment. Product and container must be disposed of safely. Dispose of in accordance with applicable waste disposal regulation. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Packaging

Uncleaned containers should not be perforated, cut or welded. Pressurized container. Do not pierce or burn, even after use. Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities.

13.1.2. Waste treatment-relevant information

-

13.1.3. Sewage disposal-relevant information

-

13.1.4. Other disposal recommendations

-

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS, flammable

IMDG name: AEROSOLS (orange, sweet, ext., hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)

14.3. Transport hazard class(es) and label

14.3.1 Transport hazard class(es)

2 (5F) IATA: 2.1

14.3.2 Label

2.1

14.4. Packing group

Not applicable.



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14.5. Environmental hazards

Additional labeling: ENVIRONMENTALLY HAZARDOUS

IMDG: MARINE POLLUTANT

14.6. Special precautions for user

Limited quantities

1 L

Tunnel restriction code

(D)

IMDG EmS

F-D, S-U

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Goods may not be carried in bulk in bulk containers, containers or vehicles.

SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

15.1.2. Ingredients according to Regulation EC 648/2004 on detergents

15% - <30%: aliphatic hydrocarbons; perfumes

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION

Indication of changes

-

Abbreviations and acronyms

ATE - Acute Toxicity Estimate

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

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ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC₅₀ - Lethal Concentration to 50 % of a test population
LD₅₀ - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data

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List of relevant H phrases

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- 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.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure .
- H411 Toxic to aquatic life with long lasting effects.

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.