



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

1.1 Product identifier

RUCK "Woods" Alpine Herbs & Sage Room Fragrance incl. 8 Diffuser Sticks

UFI: RHYA-H080-E00T-92ST

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

Use of the substance/mixture

Odour-Sequesterant, Fragrance

1.3 Details of the supplier of the safety data sheet

HELLMUT RUCK GmbH

Daimlerstr. 23

D-75305 Neuenbürg

fon +49 (0)7082. 944 20

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e-Mail kontakt@hellmut-ruck.de

1.4 Emergency telephone number

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2 SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 2; H225

Skin Sens. 1; H317

Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2 Label elements

GB CLP Regulation

Hazard components for labelling

PINENE

(R)-p-mentha-1,8-diene; d-limonene

EUCALYPTOL

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool

LINALYL ACETATE

BETA-CARYOPHYLLENE

CITRONELLAL

TERPINOLENE

citral

l-carvone; (5R)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one

Signal word: Danger

Pictograms:

Hazard statements

H225	Highly flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

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P370+P378	In case of fire: Use sand, extinguishing powder or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

2.3 Other hazards

Irritating to eyes, respiratory system and skin.

May cause sensitization by skin contact.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday.

Keep out of the reach of children.

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

Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

3 SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical characterization

Odour-Sequesterant: Alcoholic solution & perfumes

May cause an allergic skin reaction.

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
80-56-8	PINENE			1 - < 5 %
	201-291-9		01-2119519223-49	
	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H302 H315 H317 H304 H400 H410			
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene			1 - < 5 %
	227-813-5	601-029-00-7		
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H317 H400 H410			
470-82-6	EUCALYPTOL			1 - < 5 %
	207-431-5		01-2119967772-24	
	Flam. Liq. 3, Skin Sens. 1B; H226 H317			
79-92-5	CAMPHENE			1 - < 5 %
	Flam. Sol. 2, Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1; H228 H319 H400 H410			
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool			< 1 %
	201-134-4	603-235-00-2		
	Skin Sens. 1B; H317			
469-61-4	ALPHA-CEDRENE			< 1 %
	207-418-4			
	Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H304 H400 H410			
115-95-7	LINALYL ACETATE			< 1 %
	204-116-4		01-2119454789-19	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317			
87-44-5	BETA-CARYOPHYLLENE			< 1 %
	201-746-1		01-2120745237-53	
	Skin Sens. 1B, Asp. Tox. 1, Aquatic Chronic 4; H317 H304 H413			
106-23-0	CITRONELLAL			< 1 %
	203-376-6		01-2119474900-37	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 3; H315 H319 H317 H412			
586-62-9	TERPINOLENE			< 1 %
	209-578-0		01-2119982325-32	
	Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H317 H304 H400 H410			
5392-40-5	citral			< 1 %
	226-394-6	605-019-00-3		
	Skin Irrit. 2, Skin Sens. 1; H315 H317			
6485-40-1	l-carvone; (5R)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one			< 1 %
	229-352-5	606-148-00-8		
	Skin Sens. 1; H317			

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	
80-56-8	201-291-9	PINENE	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 500 mg/kg	
5989-27-5	227-813-5	(R)-p-mentha-1,8-diene; d-limonene	1 - < 5 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 2000 mg/kg	
470-82-6	207-431-5	EUCALYPTOL	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 4300 mg/kg	
79-92-5		CAMPHENE	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
78-70-6	201-134-4	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	< 1 %
		dermal: LD50 = 5610 mg/kg; oral: LD50 = 2790 mg/kg	
115-95-7	204-116-4	LINALYL ACETATE	< 1 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = >9000 mg/kg	
87-44-5	201-746-1	BETA-CARYOPHYLLENE	< 1 %
		oral: LD50 = >5000 mg/kg	
106-23-0	203-376-6	CITRONELLAL	< 1 %
		dermal: LD50 = >2500 mg/kg; oral: LD50 = 2150 mg/kg	
586-62-9	209-578-0	TERPINOLENE	< 1 %
		dermal: LD50 = 4300 mg/kg; oral: LD50 = 3740 mg/kg	
5392-40-5	226-394-6	citral	< 1 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 6800 mg/kg	

Further Information

May cause sensitization of susceptible persons.

Avoid contact with skin, eyes and clothing.

4 SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Move out of dangerous area. Take off all contaminated clothing immediately. Show this safety data sheet to the doctor in attendance.

After inhalation

Move to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

After contact with skin

In case of contact, immediately flush skin with soap and plenty of water. If skin irritation occurs, seek medical advice/attention.

After contact with eyes

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

After ingestion

Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. If unconscious place in recovery position and seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Vapours may cause irritation to the eyes, respiratory system and the skin. May cause sensitization by skin contact. Vapours may cause drowsiness and dizziness. Symptoms: Exposure may result in reddening, tears and itching of the eyes and soreness in the nose and throat, together with coughing. Difficulty in breathing. May cause headache and dizziness. Unconsciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Vapours are heavier than air and may spread along floors. Vapors may spread long distances and ignite.

Vapours may form explosive mixtures with air. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from sources of ignition – No smoking. Use water spray to cool unopened containers. Container may rupture on heating.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use only explosion-proof equipment.

Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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6 SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin and eyes. Protective suit. Evacuate personnel to safe areas.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

6.3 Methods and material for containment and cleaning up

Other information

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Ensure adequate ventilation. Use explosion-proof equipment.

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7 SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Take notice of labels and material safety data sheets for the working chemicals.

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition. Do not smoke. Take measures to prevent the build up of electrostatic charge.

Use only explosion-proof equipment. Vapours may form explosive mixtures with air.

Advice on general occupational hygiene

Ensure adequate ventilation, especially in confined areas. Avoid breathing vapors, mist or gas. When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday.

Further information on handling

Refer also to instructions for use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight.

Storage must be in accordance with the BetrSichV (Germany).

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Materials to avoid: Oxidizing and spontaneously flammable products, Flammable materials, Organic peroxides, Oxidizing agents

8 SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance	DNEL type	Exposure route	Effect	Value
64-17-5	ethanol; ethyl alcohol	Worker DNEL, long-term	inhalation	systemic	950 mg/m ³
		Worker DNEL, acute	inhalation	local	1900 mg/m ³
		Worker DNEL, long-term	dermal	systemic	343 mg/kg bw/day
		Consumer DNEL, long-term	inhalation	systemic	114 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	oral	systemic	87 mg/kg bw/day
80-56-8	PINENE	Worker DNEL, long-term	inhalation	systemic	3,8 mg/m ³
		Worker DNEL, long-term	dermal	systemic	0,54 mg/kg bw/day
		Consumer DNEL, long-term	inhalation	systemic	0,67 mg/m ³
		Consumer DNEL, long-term	dermal	systemic	0,19 mg/kg bw/day
470-82-6	EUCALYPTOL	Worker DNEL, long-term	inhalation	systemic	7,05 mg/m ³
		Worker DNEL, long-term	dermal	systemic	2 mg/kg bw/day
		Consumer DNEL, long-term	inhalation	systemic	1,74 mg/m ³
		Consumer DNEL, long-term	dermal	systemic	1 mg/kg bw/day
		Consumer DNEL, long-term	oral	systemic	600 mg/kg bw/day
115-95-7	LINALYL ACETATE	Worker DNEL, long-term	inhalation	systemic	2,75 mg/m ³
		Worker DNEL, long-term	dermal	systemic	2,5 mg/kg bw/day
		Consumer DNEL, long-term	inhalation	systemic	0,68 mg/m ³
		Consumer DNEL, long-term	dermal	systemic	1,25 mg/kg bw/day
		Consumer DNEL, long-term	oral	systemic	0,2 mg/kg bw/day

CAS No	Substance		
106-23-0	CITRONELLAL		
Worker DNEL, long-term	inhalation	systemic	9 mg/m ³
Worker DNEL, long-term	dermal	systemic	1,7 mg/kg bw/day
Worker DNEL, long-term	dermal	local	0,14 mg/cm ²
Consumer DNEL, long-term	inhalation	systemic	2,7 mg/m ³
Consumer DNEL, long-term	dermal	systemic	1 mg/kg bw/day
Consumer DNEL, long-term	dermal	local	0,14 mg/cm ²
Consumer DNEL, long-term	oral	systemic	0,6 mg/kg bw/day
586-62-9	TERPINOLENE		
Worker DNEL, long-term	inhalation	systemic	3,6 mg/m ³
Worker DNEL, long-term	dermal	systemic	0,52 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,9 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,26 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,26 mg/kg bw/day
6485-40-1	l-carvone; (5R)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one		
Worker DNEL, long-term	inhalation	systemic	0,685 mg/m ³
Worker DNEL, long-term	dermal	systemic	0,194 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,121 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,0694 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,0694 mg/kg bw/day

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PNEC values

CAS No	Substance	
Environmental compartment		Value
64-17-5	ethanol; ethyl alcohol	
Freshwater		0,96 mg/l
Freshwater (intermittent releases)		2,75 mg/l
Marine water		0,79 mg/l
Freshwater sediment		3,6 mg/kg
Marine sediment		2,9 mg/kg
Secondary poisoning		380-720 mg/kg
Soil		0,63 mg/kg
80-56-8	PINENE	
Secondary poisoning		8,76 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,2 mg/l
470-82-6	EUCALYPTOL	
Freshwater sediment		1,425 mg/kg
Marine sediment		0,142 mg/kg
Secondary poisoning		40 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,25 mg/kg
79-92-5	CAMPHERE	
Freshwater		0,00072 mg/l
Freshwater (intermittent releases)		0,00072 mg/l
Marine water		0,000072 mg/l
Marine water (intermittent releases)		0,000072 mg/l
Freshwater sediment		0,0262 mg/kg
Marine sediment		0,00262 mg/kg
Secondary poisoning		2,08 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,0211 mg/kg
115-95-7	LINALYL ACETATE	
Freshwater		0,011 mg/l
Freshwater (intermittent releases)		0,11 mg/l
Marine water		0,001 mg/l
Freshwater sediment		0,609 mg/kg
Marine sediment		0,061 mg/kg
Micro-organisms in sewage treatment plants (STP)		1 mg/l
Soil		0,115 mg/kg

CAS No	Substance	
106-23-0	CITRONELLAL	
Freshwater		0,00868 mg/l
Freshwater (intermittent releases)		0,0868 mg/l
Marine water		0,00087 mg/l
Freshwater sediment		0,159 mg/kg
Marine sediment		0,0159 mg/kg
Micro-organisms in sewage treatment plants (STP)		4 mg/l
Soil		0,0267 mg/kg
586-62-9	TERPINOLENE	
Secondary poisoning		10,31 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,2 mg/l
6485-40-1	l-carvone; (5R)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one	
Freshwater		0,0061-0,067 mg/l
Freshwater (intermittent releases)		0,061-0,670 mg/l
Marine water		0,00061-0,0067 mg/l
Marine water (intermittent releases)		0,0061-0,067 mg/l
Freshwater sediment		0,192-1,15 mg/kg
Marine sediment		0,019-0,115 mg/kg
Micro-organisms in sewage treatment plants (STP)		10-100 mg/l
Soil		0,0348-0,191 mg/kg

Additional advice on limit values

No data is available on the product itself.

8.2 Exposure controls



Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. To avoid risks to man and the environment, comply with the instructions for use.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses with side-shields

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Hand protection

Preventive skin protection: Solvent-resistant gloves (butyl-rubber). Use protective skin cream before handling the product.

Skin protection

Protective suit.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental exposure controls

The product should not be allowed to enter drains, water courses or the soil. Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

9 SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	colourless-light yellow
Odour:	characteristic
Boiling point or initial boiling point and boiling range:	78,29 °C
Lower explosion limits:	3,5 vol. %
Upper explosion limits:	15 vol. %
Flash point:	13 °C
Auto-ignition temperature:	255 °C
Vapour pressure (at 20 °C):	57,26 hPa
Vapour pressure (at 50 °C):	293 hPa
Density:	0,82 g/cm ³

10 SECTION 10: Stability and reactivity

10.1 Reactivity

No data is available on the product itself.

10.2 Chemical stability

Keep containers tightly closed in a cool, well-ventilated place.

10.3 Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

10.4 Conditions to avoid

Keep away from heat and sources of ignition. Do not smoke.

Keep away from direct sunlight. Do not expose to temperatures above 40 °C.

Take measures to prevent the build up of electrostatic charge.

10.5 Incompatible materials

Oxidizing agents, Acids, Bases, Amines, Nitric acid.

10.6 Hazardous decomposition products

Carbon oxides, nitrogen oxides (NO_x), Acids, Hydrocarbons, Hydrogen cyanide (hydrocyanic acid). Oxidizing and spontaneously flammable products.

11 SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in GB CLP Regulation

Toxicokinetics, metabolism and distribution

No data is available on the product itself.

Acute toxicity

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

ATEmix calculated

ATE (oral) 16534 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
80-56-8	PINENE					
	oral	LD50	500 mg/kg	Rat		OECD 423
	dermal	LD50	>2000 mg/kg	Rat		OECD Test Guideline 402
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene					
	oral	LD50	> 2000 mg/kg	Rat		OECD 423
	dermal	LD50	> 5000 mg/kg	Rabbit		
470-82-6	EUCALYPTOL					
	oral	LD50	4300 mg/kg	Rat		
	dermal	LD50	>2000 mg/kg	Rat		
79-92-5	CAMPHENE					
	oral	LD50	>2000 mg/kg	Rat, Mouse	ECHA	Data obtained by analogy conclusion, e.g. QSAR.
	dermal	LD50	>2000 mg/kg	Rabbit	ECHA	Data obtained by analogy conclusion, e.g. QSAR.
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool					
	oral	LD50	2790 mg/kg	Rat		OECD Test Guideline 401
	dermal	LD50	5610 mg/kg	Albino rabbit		OECD Test Guideline 402
115-95-7	LINALYL ACETATE					
	oral	LD50	>9000 mg/kg	Rat		
	dermal	LD50	>5000 mg/kg	Rabbit		

CAS No	Chemical name					
87-44-5	BETA-CARYOPHYLLENE					
	oral	LD50	>5000 mg/kg	Mouse		
106-23-0	CITRONELLAL					
	oral	LD50	2150 mg/kg	Rat		OECD 401
	dermal	LD50	>2500 mg/kg	Rabbit		
586-62-9	TERPINOLENE					
	oral	LD50	3740 mg/kg	Rat		OECD Test Guideline 401
	dermal	LD50	4300 mg/kg	Rabbit		OECD Test Guideline 402
5392-40-5	citral					
	oral	LD50	6800 mg/kg	rat		
	dermal	LD50	>2000 mg/kg	rat		

Irritation and corrosivity

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

Sensitising effects

May cause an allergic skin reaction. (PINENE; (R)-p-mentha-1,8-diene; d-limonene; EUCALYPTOL; linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool; LINALYL ACETATE; BETA-CARYOPHYLLENE; CITRONELLAL; TERPINOLENE; citral; l-carvone; (5R)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one)

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

Aspiration hazard

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

Specific effects in experiment on an animal

No data is available on the product itself.

11.2 Information on other hazards**Other information**

Health injuries are not known or expected under normal use.

Further information

Harmful if swallowed. Effects due to ingestion may include: Nausea, narcosis, Weakness, Dizziness, Unconsciousness. If inhaled: Irritation of mucous membranes, Dizziness. Repeated exposure may cause skin dryness or cracking.

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12 SECTION 12: Ecological information

12.1 Toxicity

No data is available on the product itself.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
80-56-8	PINENE						
	Acute fish toxicity	LC50	0,27 mg/l	96 h	Cyprinus carpio (Common Carp)		
	Acute crustacea toxicity	EC50	0,475 mg/l	48 h	Daphnia magna (Big water flea)		
	Algae toxicity	NOEC	0,247 mg/l				
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene						
	Acute fish toxicity	LC50	0,72 mg/l	96 h	Pimephales promelas		OECD 203
	Acute algae toxicity	ErC50	0,32 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50	0,307 mg/l	48 h	Daphnia magna		OECD 202
	Fish toxicity	NOEC	0,37 mg/l	8 d	Pimephales promelas		OECD 212
	Algae toxicity	NOEC	0,174 mg/l	3 d	Pseudokirchneriella subcapitata		OECD 201
	Crustacea toxicity	NOEC	0,153 mg/l	21 d	Daphnia magna		OECD 211
	Acute bacteria toxicity	(EC50	209 mg/l)	3 h	Activated sludge		OECD 209
470-82-6	EUCALYPTOL						
	Acute fish toxicity	LC50	57 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50	>74 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50	>100 mg/l	48 h	Daphnia magna (Big water flea)		
	Fish toxicity	NOEC	32 mg/l	4 d	Oncorhynchus mykiss (Rainbow trout)		
	Crustacea toxicity	NOEC	100 mg/l	2 d			
	Acute bacteria toxicity	(EC50	>100 mg/l)	3 h	Respiration inhibition of activated sludge		
79-92-5	CAMPHENE						
	Acute fish toxicity	LC50	0,72 mg/l	96 h	Brachydanio rerio (zebra fish)	ECHA	OECD 203
	Acute algae toxicity	ErC50	1,75 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Acute crustacea toxicity	EC50	0,72 mg/l	48 h	Daphnia magna (Big water flea)	ECHA	OECD 202
	Acute bacteria toxicity	(EC50	1000 mg/l)		Activated sludge	ECHA	OECD 209

CAS No	Chemical name						
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool						
	Acute fish toxicity	LC50	27,8 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		OECD Test Guideline 203
	Acute algae toxicity	ErC50	156.7 mg/l	96 h	Desmodesmus subspicatus		DIN 38412 / part 9
	Acute crustacea toxicity	EC50	59 mg/l	48 h	Daphnia magna (Big water flea)		OECD Test Guideline 202
	Algae toxicity	NOEC	54,3 mg/l				
	Acute bacteria toxicity	(EC50	>100 mg/l)	0,5 h	Activated sludge		OECD 209
469-61-4	ALPHA-CEDRENE						
	Acute crustacea toxicity	EC50	0,044 mg/l	48 h	Daphnia pulex (water flea)		
115-95-7	LINALYL ACETATE						
	Acute fish toxicity	LC50	11 mg/l	96 h	Cyprinus carpio (Common Carp)		OECD 203
	Acute algae toxicity	ErC50	68 mg/l				
	Acute crustacea toxicity	EC50	59 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202
	Algae toxicity	NOEC	3,9 mg/l				
	Crustacea toxicity	NOEC	25 mg/l	2 d	Daphnia magna (Big water flea)		OECD 202
	Acute bacteria toxicity	(EC50	>100 mg/l)	3 h	Activated sludge		OECD 209
87-44-5	BETA-CARYOPHYLLENE						
	Acute algae toxicity	ErC50	>0,033 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50	>0,17 mg/l	48 h	Daphnia magna (Big water flea)		
106-23-0	CITRONELLAL						
	Acute fish toxicity	LC50	22 mg/l	96 h	Leuciscus idus (golden orfe)		DIN 38412 / part 15
	Acute algae toxicity	ErC50	13,33 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50	8,68 mg/l	48 h	Daphnia magna (Big water flea)		
	Fish toxicity	NOEC	10 mg/l	4 d	Leuciscus idus (golden orfe)		DIN 38412 / part 15
586-62-9	TERPINOLENE						
	Acute fish toxicity	LC50	0,805 mg/l	96 h	Danio rerio (zebrafish)		
	Acute algae toxicity	ErC50	0,692 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50	0,634 mg/l	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(EC50	69 mg/l)	3 h	Respiration inhibition of activated sludge		

CAS No	Chemical name						
5392-40-5	citral						
	Acute fish toxicity	LC50	6,78 mg/l	96 h	Leuciscus idus (golden orfe)		DIN 38412
	Acute algae toxicity	ErC50	103,84 mg/l	72 h	Desmodesmus subspicatus		DIN 38412 / part 9
	Acute crustacea toxicity	EC50	6,8 mg/l	48 h	Daphnia magna (Water flea)		
	Fish toxicity	NOEC	4,6 mg/l	4 d	Leuciscus idus (golden orfe)		DIN 38412
	Acute bacteria toxicity	(EC50	160 mg/l)	0,5 h	Respiration inhibition of activated sludge		OECD 209
6485-40-1	l-carvone: (5R)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one						
	Acute fish toxicity	LC50	6,1 mg/l	96 h		ECHA	
	Acute algae toxicity	ErC50	19 mg/l	72 h		ECHA	
	Acute crustacea toxicity	EC50	38 mg/l	48 h		ECHA	
	Algae toxicity	NOEC	4,3 mg/l	3 d		ECHA	
	Acute bacteria toxicity	(EC50	100mg/l)			ECHA	

12.2 Persistence and degradability

No data is available on the product itself.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
80-56-8	PINENE			
	Degradation OECD 301D/ EEC 92/69/V, C.4-E	68%	28	
	Readily biodegradable.			
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene			
	OECD 301B	71,4%	28	
	Readily biodegradable (according to OECD criteria).			
470-82-6	EUCALYPTOL			
	Degradation OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	82%	28	
	Readily biodegradable.			
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool			
	OECD 301D/ EEC 92/69/V, C.4-E	64,2%	28	
115-95-7	LINALYL ACETATE			
	Degradation OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	70-80%	28	
	Readily biodegradable.			
87-44-5	BETA-CARYOPHYLLENE			
	Degradation OECD 301D/ EEC 92/69/V, C.4-E	10%	28	
	Not readily biodegradable.			
106-23-0	CITRONELLAL			
	OECD 301B	83%	28	
	Readily biodegradable (according to OECD criteria).			
586-62-9	TERPINOLENE			
	OECD 301D/ EEC 92/69/V, C.4-E	81%	28	
	Readily biodegradable.			
5392-40-5	citral			
	Degradation OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	>90%	28	
	Readily biodegradable.			
6485-40-1	l-carvone; (5R)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one			
	OECD 301F	90%	28	
	Readily biodegradable (according to OECD criteria).			

12.3 Bioaccumulative potential

No data is available on the product itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
80-56-8	PINENE	4,46
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene	4,38
470-82-6	EUCALYPTOL	3,4
79-92-5	CAMPHENE	4,22
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	2,9
469-61-4	ALPHA-CEDRENE	6,308
115-95-7	LINALYL ACETATE	3,9
87-44-5	BETA-CARYOPHYLLENE	6,23
106-23-0	CITRONELLAL	3,62
586-62-9	TERPINOLENE	4,24
5392-40-5	citral	2,76
6485-40-1	l-carvone; (5R)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one	2,74

BCF

CAS No	Chemical name	BCF	Species	Source
586-62-9	TERPINOLENE	639,4		
5392-40-5	citral	89,72		
6485-40-1	l-carvone; (5R)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one	28,51		ECHA

12.4 Mobility in soil

No data is available on the product itself.

12.5 Results of PBT and vPvB assessment

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

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

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.

12.7 Other adverse effects

No data is available on the product itself.

13 SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal recommendations

Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations. Empty containers can be landfilled, when in accordance with the local regulations.

List of Wastes Code - residues/unused products

070199 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; wastes not otherwise specified

List of Wastes Code - contaminated packaging

070199 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; wastes not otherwise specified

Contaminated packaging

Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations. Empty containers can be landfilled, when in accordance with the local regulations.

14 SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1266
14.2. UN proper shipping name: PERFUMERY PRODUCTS
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Classification code: F1
 Special Provisions: 163 640D
 Limited quantity: 5 L
 Excepted quantity: E2
 Transport category: 2
 Hazard No: 33
 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1266
14.2. UN proper shipping name: Perfumery products
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Classification code: F1
 Special Provisions: 163 640D
 Limited quantity: 5 L
 Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number:	UN 1266
14.2. UN proper shipping name:	PERFUMERY PRODUCTS
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3



Special Provisions:	163
Limited quantity:	5 L
Excepted quantity:	E2
EmS:	F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 1266
14.2. UN proper shipping name:	PERFUMERY PRODUCTS
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3



Special Provisions:	A3 A72
Limited quantity Passenger:	1 L
Passenger LQ:	Y341
Excepted quantity:	E2
IATA-packing instructions - Passenger:	353
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	364
IATA-max. quantity - Cargo:	60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: PINENE, (R)-p-mentha-1,8-diene; d-limonene, Camphene, Alpha-Cedrene, TERPINOLENE

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice. Health injuries are not known or expected under normal use.

15 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 40, Entry 75

2010/75/EU (VOC): 79,706 % (645,615 g/l)

2004/42/EC (VOC): 79,793 % (646,325 g/l)

Information according to 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

Additional information: P5c

Additional information

Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers. Take note of Dir 94/33/EC on the protection of young people at work.

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 3 - highly hazardous to water

16 SECTION 16: Other information

Abbreviations and acronyms

Flam. Liq: Flammable liquids

Flam. Sol: Flammable solids

Acute Tox: Acute toxicity

Asp. Tox: Aspiration hazard

Skin Irrit: Skin irritation

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

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

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H228 Flammable solid

H302 Harmful if swallowed.

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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Further Information

All data refer to the product upon delivery The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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