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

#### 1.1 Product identifier

RUCK "Desert" Clove & Patchouli Room Fragrance incl. 8 Diffuser Sticks

UFI: 1EYA-00JM-4009-NR6R

### 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

fax +49 (0)7082. 944 22 22

e-Mail kontakt@hellmut-ruck.de

### 1.4 Emergency telephone number

VIZ Universitätsklinikum Freiburg: Phone (24 h) +49 (0)761 19240

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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 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2 Label elements

### **GB CLP Regulation**

### Hazard components for labelling

BETA-CARYOPHYLLENE

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

LINALYL ACETATE

CITRONELLOL

geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol

**EUGENOL** 

**PINENE** 

Isoeugenol

Signal word: Danger

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according to UK REACH Regulation

### **Pictograms:**



#### **Hazard statements**

H225 Highly flammable liquid and vapour.H317 May cause an allergic skin reaction.

H412 Harmful 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.

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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according to UK REACH Regulation

### **Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation	n)		
37-44-5	BETA-CARYOPHYLLENE			1-<5%
	201-746-1		01-2120745237-53	
	Skin Sens. 1B, Asp. Tox. 1, Aquat	ic Chronic 4; H317 H304 H413		
78-70-6	linalool; 3,7-dimethyl-1,6-octadie	en-3-ol; dl-linalool		1-<5%
	201-134-4	603-235-00-2		
	Skin Sens. 1B; H317			
30-26-2	p-menth-1-en-8-yl acetate			1-<5%
	201-265-7		01-2119980733-29	
	Aquatic Chronic 2; H411			
15-95-7	LINALYL ACETATE			1-<5%
	204-116-4		01-2119454789-19	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens	s. 1B; H315 H319 H317		
06-22-9	CITRONELLOL			< 1%
	203-375-0		01-2119453995-23	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens	s. 1B; H315 H319 H317		
06-24-1	geraniol; (2E)-3,7-dimethylocta-	-2,6-dien-1-ol		< 1%
	203-377-1	603-241-00-5		
	Skin Sens. 1; H317			
7-53-0	EUGENOL			< 1 %
	202-589-1		01-2119971802-33	
	Eye Irrit. 2, Skin Sens. 1B, Asp. T	ox. 1; H319 H317 H304		
69-61-4	ALPHA-CEDRENE			< 1 %
	207-418-4			
	Asp. Tox. 1, Aquatic Acute 1, Aqu	uatic Chronic 1; H304 H400 H4	410	
80-56-8	PINENE			< 1 %
	201-291-9		01-2119519223-49	
	Flam. Liq. 3, Acute Tox. 4, Skin Ir H226 H302 H315 H317 H304 H40		Aquatic Acute 1, Aquatic Chronic 1;	
7-54-1	isoeugenol			< 0.1 %
	202-590-7	604-094-00-X		
	Skin Sens. 1A; H317			

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

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### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Cond	c. Limits, M-factors and ATE	
87-44-5	201-746-1	BETA-CARYOPHYLLENE	1 - < 5 %
	oral: LD50 =	>5000 mg/kg	
78-70-6	201-134-4	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	1 - < 5 %
	dermal: LD50	0 = 5610 mg/kg; oral: LD50 = 2790 mg/kg	
80-26-2	201-265-7	p-menth-1-en-8-yl acetate	1 - < 5 %
	oral: LD50 =	5075 mg/kg	
115-95-7	204-116-4	LINALYL ACETATE	1 - < 5 %
	dermal: LD50	0 = >5000 mg/kg; oral: LD50 = >9000 mg/kg	
106-22-9	203-375-0	CITRONELLOL	< 1 %
	dermal: LD50	0 = 2650 mg/kg; oral: LD50 = 3450 mg/kg	
106-24-1	203-377-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol	< 1 %
	dermal: LD50	0 = 5000 mg/kg; oral: LD50 = 3600 mg/kg	
97-53-0	202-589-1	EUGENOL	< 1 %
	inhalation: L0	C50 = >2,6 mg/l (vapours); oral: LD50 = >2000 mg/kg	
80-56-8	201-291-9	PINENE	< 1 %
	dermal: LD50	0 = >2000 mg/kg; oral: LD50 = 500 mg/kg	
97-54-1	202-590-7	isoeugenol	< 0.1 %
	Skin Sens. 1A	; H317: >= 0,01 - 100	

### **Further Information**

May cause sensitization of susceptible persons.

Avoid contact with skin, eyes and clothing.

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#### 4 **SECTION 4: First aid measures**

#### Description of first aid measures 4.1

#### **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.

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### 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

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# 8 SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

### **DNEL/DMEL values**

DNEL type	CAS No	Substance			
Worker DNEL, long-term         inhalation         systemic         950 mg/m³           Worker DNEL, acute         inhalation         local         1900 mg/m³           Worker DNEL, long-term         dermal         systemic         343 mg/kg           Dw/day         bw/day         544 mg/m³         114 mg/m³           Consumer DNEL, long-term         inhalation         local         950 mg/m³           Consumer DNEL, long-term         dermal         systemic         206 mg/kg           Consumer DNEL, long-term         oral         systemic         275 mg/m³           Consumer DNEL, long-term         inhalation         systemic         2.75 mg/m³           Worker DNEL, long-term         inhalation         systemic         2.5 mg/kg bw/day           Consumer DNEL, long-term         dermal         systemic         0.68 mg/m³           Consumer DNEL, long-term         dermal         systemic         0.2 mg/kg bw/day           U6-22-9         CITRONELLOL         0.2 mg/kg bw/day           Worker DNEL, long-term         inhalation         systemic         161.6 mg/m³           Worker DNEL, long-term         dermal         systemic         327.4 mg/kg           Worker DNEL, long-term         inhalation         systemic         161.6 mg/m³ <td>DNEL type</td> <td></td> <td>Exposure route</td> <td>Effect</td> <td>Value</td>	DNEL type		Exposure route	Effect	Value
Worker DNEL, long-term  Worker DNEL, long-term  dermal systemic by systemic by day  Consumer DNEL, long-term  inhalation systemic 114 mg/m²  Consumer DNEL, long-term  consumer DNEL, long-term  dermal systemic 114 mg/m²  Consumer DNEL, long-term  dermal systemic 206 mg/kg bw/day  Consumer DNEL, long-term  dermal systemic 87 mg/kg bw/day  115-95-7 LINALYL ACETATE  Worker DNEL, long-term inhalation systemic 2.75 mg/m³  Worker DNEL, long-term dermal systemic 2.5 mg/kg bw/day  Consumer DNEL, long-term inhalation systemic 0.68 mg/m³  Consumer DNEL, long-term dermal systemic 0.68 mg/m³  Consumer DNEL, long-term oral systemic 0.2 mg/kg bw/day  Consumer DNEL, long-term inhalation systemic 0.2 mg/kg bw/day  Consumer DNEL, long-term inhalation systemic 0.2 mg/kg bw/day  Consumer DNEL, long-term dermal systemic 0.2 mg/kg bw/day  Consumer DNEL, long-term inhalation systemic 327.4 mg/kg bw/day  Consumer DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term dermal systemic 196.4 mg/kg bw/day  Consumer DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term inhalation systemic 327.4 mg/kg bw/day  Consumer DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term dermal systemic 538 mg/kg bw/day  77-53-0 EUGENOL  Worker DNEL, long-term inhalation systemic 5.22 mg/m³  Worker DNEL, long-term dermal systemic 6 mg/kg bw/day  Consumer DNEL, long-term dermal systemic 6 mg/kg bw/day  Consumer DNEL, long-term dermal systemic 6 mg/kg bw/day  Consumer DNEL, long-term dermal systemic 6 mg/kg bw/day	64-17-5	ethanol; ethyl alcohol			
Worker DNEL, long-term     dermal     systemic     343 mg/kg bw/day       Consumer DNEL, long-term     inhalation     systemic     114 mg/m³       Consumer DNEL, acute     inhalation     local     950 mg/m³       Consumer DNEL, long-term     dermal     systemic     206 mg/kg bw/day       Consumer DNEL, long-term     oral     systemic     87 mg/kg bw/day       LINALY ACETATE     Worker DNEL, long-term     inhalation     systemic     2.75 mg/m³       Worker DNEL, long-term     dermal     systemic     2.5 mg/kg bw/day       Consumer DNEL, long-term     dermal     systemic     0.68 mg/m³       Consumer DNEL, long-term     dermal     systemic     0.2 mg/kg bw/day       Consumer DNEL, long-term     oral     systemic     0.2 mg/kg bw/day       Worker DNEL, long-term     inhalation     systemic     0.2 mg/kg bw/day       Worker DNEL, long-term     dermal     systemic     327.4 mg/kg bw/day       Worker DNEL, long-term     inhalation     systemic     47.8 mg/m³       Worker DNEL, long-term     inhalation     local     10 mg/m³       Consumer DNEL, long-term     inhalation     local     10 mg/m³       Consumer DNEL, long-term     dermal     systemic     38 mg/kg bw/day       Consumer DNEL, long-term     inhalation <td>Worker DNEL</td> <td>, long-term</td> <td>inhalation</td> <td>systemic</td> <td>950 mg/m³</td>	Worker DNEL	, long-term	inhalation	systemic	950 mg/m³
Consumer DNEL, long-term inhalation systemic bw/day  Consumer DNEL, acute inhalation systemic consumer DNEL, long-term dermal systemic systemic bw/day  Consumer DNEL, long-term dermal systemic 206 mg/kg bw/day  Consumer DNEL, long-term oral systemic 87 mg/kg bw/day  T15-95-7 LINALYL ACETATE  Worker DNEL, long-term inhalation systemic 2.75 mg/m³  Worker DNEL, long-term dermal systemic 2.5 mg/kg bw/day  Consumer DNEL, long-term dermal systemic 2.5 mg/kg bw/day  Consumer DNEL, long-term dermal systemic 0.68 mg/m³  Consumer DNEL, long-term drail systemic 0.2 mg/kg bw/day  Consumer DNEL, long-term drail systemic 0.2 mg/kg bw/day  T1.25 mg/kg bw/day  Consumer DNEL, long-term drail systemic 0.2 mg/kg bw/day  T1.25 mg/kg bw/day	Worker DNEL	, acute	inhalation	local	1900 mg/m³
Consumer DNEL, long-term  Worker DNEL, long-term  Consumer DNEL, long-term  Worker DNEL, long-term  Consumer DNEL, long-term  Consumer DNEL, long-term  Inhalation  Systemic  2.75 mg/kg bw/day  2.5 mg/kg bw/day  Consumer DNEL, long-term  Consumer DNEL, long-term  Consumer DNEL, long-term  Consumer DNEL, long-term  Worker DNEL, long-term  Inhalation  Systemic  Systemic  Consumer DNEL, long-term  Inhalation  Systemic  Systemic  Systemic  Consumer DNEL, long-term  Inhalation  Systemic	Worker DNEL	, long-term	dermal	systemic	
Consumer DNEL, long-term oral systemic 87 mg/kg bw/day  115-95-7 LINALYL ACETATE  Worker DNEL, long-term dermal systemic 2.75 mg/kg bw/day  Worker DNEL, long-term dermal systemic 2.5 mg/kg bw/day  Consumer DNEL, long-term dermal systemic 0.68 mg/m³  Consumer DNEL, long-term oral systemic 0.58 mg/m³  Consumer DNEL, long-term oral systemic 0.2 mg/kg bw/day  Consumer DNEL, long-term dermal systemic 0.2 mg/kg bw/day  Consumer DNEL, long-term inhalation systemic 327.4 mg/kg bw/day  Consumer DNEL, long-term inhalation systemic 47.8 mg/m³  Worker DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term dermal systemic 97.5 mg/kg bw/day  Consumer DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term inhalation local 13.8 mg/kg bw/day  Consumer DNEL, long-term oral systemic 97.5 mg/kg bw/day  Consumer DNEL, long-term inhalation systemic 52.2 mg/m³  Worker DNEL, long-term inhalation systemic 5.22 mg/m³  Worker DNEL, long-term dermal systemic 5.22 mg/m³  Consumer DNEL, long-term inhalation systemic 5.22 mg/m³  Consumer DNEL, long-term dermal systemic 5.22 mg/m³	Consumer DN	NEL, long-term	inhalation	systemic	114 mg/m³
Consumer DNEL, long-term oral systemic bw/day  Consumer DNEL, long-term oral systemic 87 mg/kg bw/day  115-95-7 LINALYL ACETATE  Worker DNEL, long-term inhalation systemic 2.75 mg/m³  Worker DNEL, long-term dermal systemic 2.5 mg/kg bw/day  Consumer DNEL, long-term dermal systemic 0.68 mg/m³  Consumer DNEL, long-term dermal systemic bw/day  Consumer DNEL, long-term oral systemic 0.2 mg/kg bw/day  Consumer DNEL, long-term oral systemic 0.2 mg/kg bw/day  Consumer DNEL, long-term inhalation systemic 161.6 mg/m³  Worker DNEL, long-term inhalation systemic 327.4 mg/kg bw/day  Consumer DNEL, long-term inhalation local 10 mg/m³  Worker DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term inhalation systemic 35.4 mg/kg bw/day  Consumer DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term inhalation systemic 35.8 mg/kg bw/day  Tonsumer DNEL, long-term oral systemic 5.22 mg/m³  Worker DNEL, long-term inhalation systemic 5.22 mg/m³  Worker DNEL, long-term inhalation systemic 5.22 mg/m³  Consumer DNEL, long-term dermal systemic 5.22 mg/m³  Consumer DNEL, long-term dermal systemic 5.22 mg/m³  Consumer DNEL, long-term dermal systemic 5.22 mg/m³	Consumer DN	NEL, acute	inhalation	local	950 mg/m³
### Tis-95-7 LINALYL ACETATE  Worker DNEL, long-term	Consumer DN	NEL, long-term	dermal	systemic	0 0
Worker DNEL, long-term       inhalation       systemic       2.75 mg/m³         Worker DNEL, long-term       dermal       systemic       2.5 mg/kg bw/day         Consumer DNEL, long-term       inhalation       systemic       0.68 mg/m³         Consumer DNEL, long-term       dermal       systemic       0.2 mg/kg bw/day         Consumer DNEL, long-term       oral       systemic       0.2 mg/kg bw/day         Worker DNEL, long-term       inhalation       systemic       161.6 mg/m³         Worker DNEL, long-term       dermal       systemic       327.4 mg/kg         bw/day       bw/day       bw/day         Consumer DNEL, long-term       inhalation       systemic       47.8 mg/m³         Worker DNEL, long-term       inhalation       local       10 mg/m³         Consumer DNEL, long-term       dermal       systemic       196.4 mg/kg         bw/day         Consumer DNEL, long-term       dermal       systemic       13.8 mg/kg         bw/day       bw/day       5.22 mg/m³         Worker DNEL, long-term       inhalation       systemic       6 mg/kg bw/day         Consumer DNEL, long-term       inhalation       systemic       5.22 mg/m³         Consumer DNEL, long-term       inhalation       <	Consumer DN	NEL, long-term	oral	systemic	87 mg/kg bw/day
Worker DNEL, long-term       dermal       systemic       2.5 mg/kg bw/day         Consumer DNEL, long-term       inhalation       systemic       0.68 mg/m³         Consumer DNEL, long-term       dermal       systemic       1.25 mg/kg bw/day         Consumer DNEL, long-term       oral       systemic       0.2 mg/kg bw/day         Worker DNEL, long-term       inhalation       systemic       327.4 mg/kg bw/day         Worker DNEL, long-term       dermal       systemic       327.4 mg/kg bw/day         Consumer DNEL, long-term       inhalation       systemic       47.8 mg/m³         Worker DNEL, long-term       inhalation       local       10 mg/m³         Consumer DNEL, long-term       dermal       systemic       196.4 mg/kg bw/day         Consumer DNEL, long-term       dermal       systemic       13.8 mg/kg bw/day         97-53-0       EUGENOL         Worker DNEL, long-term       inhalation       systemic       21.2 mg/m³         Worker DNEL, long-term       dermal       systemic       6 mg/kg bw/day         Consumer DNEL, long-term       inhalation       systemic       5.22 mg/m³         Consumer DNEL, long-term       inhalation       systemic       5.22 mg/m³	115-95-7	LINALYL ACETATE			
Consumer DNEL, long-term linhalation systemic 0.68 mg/m³  Consumer DNEL, long-term dermal systemic bw/day  Consumer DNEL, long-term oral systemic 0.2 mg/kg bw/day  106-22-9 CITRONELLOL  Worker DNEL, long-term linhalation systemic 327.4 mg/kg bw/day  Consumer DNEL, long-term linhalation systemic 47.8 mg/m³  Worker DNEL, long-term linhalation local 10 mg/m³  Worker DNEL, long-term linhalation local 10 mg/m³  Consumer DNEL, long-term linhalation local 10 mg/m³  Consumer DNEL, long-term linhalation local 10 mg/m³  Consumer DNEL, long-term linhalation local 13.8 mg/kg bw/day  Consumer DNEL, long-term linhalation systemic 31.8 mg/kg bw/day  Consumer DNEL, long-term linhalation systemic 21.2 mg/m³  Worker DNEL, long-term linhalation systemic 21.2 mg/m³  Worker DNEL, long-term dermal systemic 5.22 mg/m³  Consumer DNEL, long-term dermal systemic 5.22 mg/m³  Consumer DNEL, long-term linhalation systemic 5.22 mg/m³	Worker DNEL	, long-term	inhalation	systemic	2,75 mg/m³
Consumer DNEL, long-term dermal systemic bw/day  Consumer DNEL, long-term oral systemic 0,2 mg/kg bw/day  106-22-9 CITRONELLOL  Worker DNEL, long-term inhalation systemic 161,6 mg/m³  Worker DNEL, long-term dermal systemic 327,4 mg/kg bw/day  Consumer DNEL, long-term inhalation systemic 47,8 mg/m³  Worker DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term oral systemic 13,8 mg/kg bw/day  Consumer DNEL, long-term oral systemic 21,2 mg/m³  Worker DNEL, long-term inhalation systemic 21,2 mg/m³  Worker DNEL, long-term inhalation systemic 5,22 mg/m³  Consumer DNEL, long-term dermal systemic 5,22 mg/m³  Consumer DNEL, long-term inhalation systemic 5,22 mg/m³  Consumer DNEL, long-term inhalation systemic 3 mg/kg bw/day	Worker DNEL	, long-term	dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term oral systemic bw/day  Consumer DNEL, long-term oral systemic 0,2 mg/kg bw/day  106-22-9 CITRONELLOL  Worker DNEL, long-term inhalation systemic 327,4 mg/kg bw/day  Consumer DNEL, long-term inhalation systemic 47,8 mg/m³  Worker DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term dermal systemic 913,8 mg/kg bw/day  Consumer DNEL, long-term oral systemic 13,8 mg/kg bw/day  97-53-0 EUGENOL  Worker DNEL, long-term inhalation systemic 21,2 mg/m³  Worker DNEL, long-term dermal systemic 5,22 mg/m³  Consumer DNEL, long-term dermal systemic 5,22 mg/m³  Consumer DNEL, long-term inhalation systemic 5,22 mg/m³  Consumer DNEL, long-term dermal systemic 5,22 mg/m³	Consumer DN	NEL, long-term	inhalation	systemic	0,68 mg/m³
106-22-9     CITRONELLOL       Worker DNEL, long-term     inhalation     systemic     161.6 mg/m³       Worker DNEL, long-term     dermal     systemic     327.4 mg/kg bw/day       Consumer DNEL, long-term     inhalation     systemic     47.8 mg/m³       Worker DNEL, long-term     inhalation     local     10 mg/m³       Consumer DNEL, long-term     dermal     systemic     196.4 mg/kg bw/day       Consumer DNEL, long-term     oral     systemic     13.8 mg/kg bw/day       97-53-0     EUGENOL       Worker DNEL, long-term     inhalation     systemic     21.2 mg/m³       Worker DNEL, long-term     dermal     systemic     5.22 mg/m³       Consumer DNEL, long-term     inhalation     systemic     5.22 mg/m³       Consumer DNEL, long-term     dermal     systemic     3 mg/kg bw/day	Consumer DN	NEL, long-term	dermal	systemic	
Worker DNEL, long-term inhalation systemic systemic 327.4 mg/kg bw/day  Consumer DNEL, long-term inhalation systemic sys	Consumer DN	NEL, long-term	oral	systemic	0,2 mg/kg bw/day
Worker DNEL, long-termdermalsystemic327,4 mg/kg bw/dayConsumer DNEL, long-terminhalationsystemic47,8 mg/m³Worker DNEL, long-terminhalationlocal10 mg/m³Consumer DNEL, long-terminhalationlocal10 mg/m³Consumer DNEL, long-termdermalsystemic196,4 mg/kg bw/dayConsumer DNEL, long-termoralsystemic13,8 mg/kg bw/day97-53-0EUGENOLWorker DNEL, long-terminhalationsystemic21,2 mg/m³Worker DNEL, long-termdermalsystemic6 mg/kg bw/dayConsumer DNEL, long-terminhalationsystemic5,22 mg/m³Consumer DNEL, long-termdermalsystemic3 mg/kg bw/day	106-22-9	CITRONELLOL			
Worker DNEL, long-term       dermal       systemic       bw/day         Consumer DNEL, long-term       inhalation       systemic       47.8 mg/m³         Worker DNEL, long-term       inhalation       local       10 mg/m³         Consumer DNEL, long-term       dermal       systemic       196,4 mg/kg bw/day         Consumer DNEL, long-term       oral       systemic       13,8 mg/kg bw/day         97-53-0       EUGENOL         Worker DNEL, long-term       inhalation       systemic       21,2 mg/m³         Worker DNEL, long-term       dermal       systemic       6 mg/kg bw/day         Consumer DNEL, long-term       inhalation       systemic       5,22 mg/m³         Consumer DNEL, long-term       dermal       systemic       3 mg/kg bw/day	Worker DNEL	, long-term	inhalation	systemic	161,6 mg/m³
Worker DNEL, long-terminhalationlocal10 mg/m³Consumer DNEL, long-terminhalationlocal10 mg/m³Consumer DNEL, long-termdermalsystemic196.4 mg/kg bw/dayConsumer DNEL, long-termoralsystemic13,8 mg/kg bw/day97-53-0EUGENOLWorker DNEL, long-terminhalationsystemic21,2 mg/m³Worker DNEL, long-termdermalsystemic6 mg/kg bw/dayConsumer DNEL, long-terminhalationsystemic5,22 mg/m³Consumer DNEL, long-termdermalsystemic3 mg/kg bw/day	Worker DNEL	, long-term	dermal	systemic	
Consumer DNEL, long-term inhalation local 10 mg/m³  Consumer DNEL, long-term dermal systemic 196,4 mg/kg bw/day  Consumer DNEL, long-term oral systemic 13,8 mg/kg bw/day  97-53-0 EUGENOL  Worker DNEL, long-term inhalation systemic 21,2 mg/m³  Worker DNEL, long-term dermal systemic 5,22 mg/m³  Consumer DNEL, long-term inhalation systemic 5,22 mg/m³  Consumer DNEL, long-term dermal systemic 5,22 mg/m³	Consumer DN	NEL, long-term	inhalation	systemic	47,8 mg/m³
Consumer DNEL, long-term  Consumer DNEL, long-term  oral  systemic  systemic  196,4 mg/kg bw/day  13,8 mg/kg bw/day  97-53-0  EUGENOL  Worker DNEL, long-term  inhalation  systemic  21,2 mg/m³  Worker DNEL, long-term  dermal  systemic  6 mg/kg bw/day  Consumer DNEL, long-term  inhalation  systemic  5,22 mg/m³  Consumer DNEL, long-term  dermal  systemic  3 mg/kg bw/day	Worker DNEL	, long-term	inhalation	local	10 mg/m³
Consumer DNEL, long-term  Consumer DNEL, long-term  oral  systemic  bw/day  13,8 mg/kg bw/day  97-53-0  EUGENOL  Worker DNEL, long-term  inhalation  systemic  21,2 mg/m³  Worker DNEL, long-term  dermal  systemic  6 mg/kg bw/day  Consumer DNEL, long-term  inhalation  systemic  5,22 mg/m³  Consumer DNEL, long-term  dermal  systemic  systemic  5,22 mg/m³	Consumer DN	NEL, long-term	inhalation	local	10 mg/m³
Consumer DNEL, long-term  97-53-0  EUGENOL  Worker DNEL, long-term  inhalation  systemic  21,2 mg/m³  Worker DNEL, long-term  dermal  systemic  6 mg/kg bw/day  Consumer DNEL, long-term  inhalation  systemic  5,22 mg/m³  Consumer DNEL, long-term  dermal  systemic  5,22 mg/m³	Consumer DN	NEL, long-term	dermal	systemic	
Worker DNEL, long-terminhalationsystemic21,2 mg/m³Worker DNEL, long-termdermalsystemic6 mg/kg bw/dayConsumer DNEL, long-terminhalationsystemic5,22 mg/m³Consumer DNEL, long-termdermalsystemic3 mg/kg bw/day	Consumer DN	NEL, long-term	oral	systemic	
Worker DNEL, long-termdermalsystemic6 mg/kg bw/dayConsumer DNEL, long-terminhalationsystemic5,22 mg/m³Consumer DNEL, long-termdermalsystemic3 mg/kg bw/day	97-53-0	EUGENOL			
Consumer DNEL, long-terminhalationsystemic5,22 mg/m³Consumer DNEL, long-termdermalsystemic3 mg/kg bw/day	Worker DNEL	, long-term	inhalation	systemic	21,2 mg/m³
Consumer DNEL, long-term dermal systemic 3 mg/kg bw/day	Worker DNEL	, long-term	dermal	systemic	6 mg/kg bw/day
	Consumer DN	NEL, long-term	inhalation	systemic	5,22 mg/m³
Consumer DNEL, long-term oral systemic 3 mg/kg bw/day	Consumer DN	NEL, long-term	dermal	systemic	3 mg/kg bw/day
	Consumer DN	NEL, long-term	oral	systemic	3 mg/kg bw/day

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Document number/Designation/Revision	Created/modified/Date/Signature	Released/Approved/Date/Signature
Safety Data Sheet_6100902_RUCK Room Fragrance Desert Clove & Patchouli_REV01_EN.docx	27.06.2023 ThW	24.07.2023 EF



according to UK REACH Regulation

CAS No	Substance			
80-56-8	PINENE			
Worker DNEI	_, long-term	inhalation	systemic	3,8 mg/m³
Worker DNEI	_, long-term	dermal	systemic	0,54 mg/kg bw/day
Consumer D	NEL, long-term	inhalation	systemic	0,67 mg/m³
Consumer D	NEL, long-term	dermal	systemic	0,19 mg/kg bw/day

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Document number/Designation/Revision	Created/modified/Date/Signature	Released/Approved/Date/Signature
Safety Data Sheet_6100902_RUCK Room Fragrance Desert Clove & Patchouli_REV01_EN.docx	27.06.2023 ThW	24.07.2023 EF



### **PNEC** values

Environmental compartment	CAS No	Substance	
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           80-26-2         p-menth-1-en-8-yl acetate           Freshwater sediment         0.453 mg/kg           Marine sediment         0.045 mg/kg           Micro-organisms in sewage treatment plants (STP)         10 mg/l           Soil         0.086 mg/kg           115-95-7         LINALYL ACETATE           Freshwater (Intermittent releases)         0.11 mg/l           Marine water         0.001 mg/l           Freshwater sediment         0.69 mg/kg           Marine sediment         0.061 mg/kg           Micro-organisms in sewage treatment plants (STP)         1 mg/l           Soil         0.01 mg/l           106-22-9         CITRONELLOL           Freshwater sediment         0.02 mg/l           Marine sediment         0.002 mg/l           Soil         0.004 mg/kg           Marine sediment         0.004 mg/kg           Soil         0.004 mg/kg           Freshwater (intermittent releases)	Environmer	ntal compartment	Value
Freshwater (intermittent releases)         2,76 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           80-2c-2         p-menth-1-en-8-yl acetate           Freshwater sediment         0,455 mg/kg           Marine sediment         0,045 mg/kg           Micro-organisms in sewage treatment plants (STP)         10 mg/l           Soil         0,045 mg/kg           Micro-organisms in sewage treatment plants (STP)         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         0,017 mg/l           Freshwater sediment         0,002 mg/kg           Marine sediment         0,002 mg/kg           Marine sediment         0,002 mg/kg           Morine sediment         0,002 mg/kg           Morine sediment         0,002 mg/kg           Soil         0,004 mg/kg <tr< td=""><td>64-17-5</td><td>ethanol; ethyl alcohol</td><td></td></tr<>	64-17-5	ethanol; ethyl alcohol	
Marine water       0.79 mg/l         Freshwater sediment       3.6 mg/kg         Marine sediment       2.9 mg/kg         Marine sediment       0.63 mg/kg         Soil       0.63 mg/kg         80-26-2       p-menth-1-en-8-yl acetate         Freshwater sediment       0.453 mg/kg         Micro-organisms in sewage treatment plants (STP)       10 mg/l         Soil       0.096 mg/kg         155-95-7       LINALYL ACETATE         Freshwater (intermittent releases)       0.11 mg/l         Marine sediment       0.609 mg/kg         Marine sediment       0.609 mg/kg         Marine sediment       0.609 mg/kg         Marine sediment       0.001 mg/l         Freshwater sediment plants (STP)       1 mg/l         Soil       0.01 mg/kg         Marine sediment       0.06 mg/kg         Marine sediment       0.02 mg/kg         Micro-organisms in sewage treatment plants (STP)       1 mg/l         Freshwater       0.02 mg/kg         Micro-organisms in sewage treatment plants (STP)       580 mg/l         Soil       0.026 mg/kg         Micro-organisms in sewage treatment plants (STP)       580 mg/l         Soil       0.0013 mg/l         Freshwat	Freshwater		0,96 mg/l
Preshwater sediment	Freshwater	(intermittent releases)	2,75 mg/l
Marine sediment         2,9 mg/kg           Secondary poisoning         380-720 mg/kg           Soil         0,63 mg/kg           Soil         0,63 mg/kg           80-26-2         p-menth-1-en-8-yl acetate           Freshwater sediment         0,453 mg/kg           Marine sediment         0,045 mg/kg           Micro-organisms in sewage treatment plants (STP)         10 mg/l           Soil         0,098 mg/kg           15-95-7         LINALYL ACETATE           Freshwater (intermittent releases)         0,11 mg/l           Marine water         0,001 mg/l           Freshwater sediment         0,609 mg/kg           Marine sediment         0,604 mg/kg           Micro-organisms in sewage treatment plants (STP)         1 mg/l           Soil         0,115 mg/kg           106-22-9         CITRONELLO           Freshwater sediment         0,002 mg/l           Marine sediment         0,002 mg/l           Micro-organisms in sewage treatment plants (STP)         580 mg/l           Micro-organisms in sewage treatment plants (STP)         580 mg/l           Micro-organisms in sewage treatment plants (STP)         580 mg/l           Marine sediment         0,002 mg/l           Micro-organisms in sewage	Marine wate	er	0,79 mg/l
Secondary poisoning   Soil	Freshwater	sediment	3,6 mg/kg
Soil         0.63 mg/kg           80-26-2         p-menth-1-en-8-yl acetate           Freshwater sediment         0.453 mg/kg           Marine sediment         0.045 mg/kg           Micro-organisms in sewage treatment plants (STP)         10 mg/l           Soil         0.086 mg/kg           115-95-7         LINALYL ACETATE           Freshwater (intermittent releases)         0.011 mg/l           Marine water         0.001 mg/l           Freshwater sediment         0.609 mg/kg           Marine sediment         0.609 mg/kg           Micro-organisms in sewage treatment plants (STP)         1 mg/l           Soil         0.015 mg/kg           Micro-organisms in sewage treatment plants (STP)         1 mg/l           Soil         0.015 mg/kg           Marine sediment         0.002 mg/l           Freshwater sediment         0.002 mg/l           Freshwater sediment         0.002 mg/l           Soil         0.003 mg/kg           Marine sediment         0.004 mg/kg           Soil         0.004 mg/kg           Freshwater (intermittent releases)         0.0013 mg/l           Freshwater sediment         0.0013 mg/l           Freshwater sediment         0.0013 mg/l           Fre	Marine sedi	ment	2,9 mg/kg
80-26-2 p-menth-1-en-8-yl acetate Freshwater sedment 0,453 mg/kg Marines eadiment 0,0453 mg/kg Micro-organisms in sewage treatment plants (STP) 10 mg/l Soil 0,086 mg/kg 115-95-7 LINALYL ACETATE Freshwater Freshwater (intermittent releases) 0,111 mg/l Marine water 0,001 mg/l Freshwater sedment 0,0001 mg/l Freshwater 0,0001 mg/l Freshwater sedment 0,0001 mg/l Soil 0,0115 mg/kg 106-22-9 CITRONELLOL Freshwater sedment 0,002 mg/l Freshwater sedment 0,002 mg/l Freshwater sedment 0,003 mg/kg Marine sediment 0,003 mg/kg Marine sediment 0,003 mg/kg Freshwater sedment plants (STP) 580 mg/l Freshwater sedment plants (STP) 0,0013 mg/l Freshwater (intermittent releases) 0,0013 mg/l Freshwater (intermittent releases) 0,0013 mg/l Freshwater sedment 0,0008 mg/kg Marine sediment 0,0008 mg/kg Marine sediment 0,0008 mg/kg Soil 0,0015 mg/kg Soil 0,0015 mg/kg Soil 0,0015 mg/kg Soil 0,0015 mg/kg	Secondary	poisoning	380-720 mg/kg
Freshwater sediment         0.453 mg/kg           Marine sediment         0.045 mg/kg           Micro-organisms in sewage treatment plants (STP)         10 mg/l           Soil         0.086 mg/kg           115-95-7         LINALYL ACETATE           Freshwater (intermittent releases)         0.011 mg/l           Marine water         0.001 mg/l           Freshwater (intermittent releases)         0.001 mg/l           Marine sediment         0.609 mg/kg           Micro-organisms in sewage treatment plants (STP)         1 mg/l           Soil         0.115 mg/kg           106-22-9         CITRONELLOL           Freshwater         0.002 mg/l           Freshwater sediment         0.026 mg/kg           Marine sediment         0.03 mg/kg           Micro-organisms in sewage treatment plants (STP)         580 mg/l           Soil         0.03 mg/kg           Marine sediment         0.03 mg/kg           Soil         0.0013 mg/l           Freshwater (intermittent releases)         0.0013 mg/l           Freshwater (intermittent releases)         0.0013 mg/l           Marine sediment         0.008 mg/kg           Soil         0.0015 mg/kg           Soil         0.0015 mg	Soil		0,63 mg/kg
Marine sediment         0.045 mg/kg           Micro-organisms in sewage treatment plants (STP)         10 mg/l           Soil         0.086 mg/kg           115-95-7         LINALYL ACETATE           Freshwater (intermittent releases)         0.011 mg/l           Marine water         0.001 mg/l           Freshwater sediment         0.609 mg/kg           Marine sediment         0.609 mg/kg           Micro-organisms in sewage treatment plants (STP)         1 mg/l           Soil         0.116 mg/kg           106-22-9         CITRONELLOL           Freshwater         0.026 mg/kg           Marine sediment         0.026 mg/kg           Marine sediment         0.026 mg/kg           Micro-organisms in sewage treatment plants (STP)         580 mg/l           Soil         0.026 mg/kg           Marine sediment         0.03 mg/kg           Micro-organisms in sewage treatment plants (STP)         580 mg/l           Soil         0.004 mg/kg           Marine sediment         0.0013 mg/l           Freshwater (intermittent releases)         0.0013 mg/l           Marine water         0.00013 mg/l           Freshwater sediment         0.00013 mg/l           Marine sediment         0.008 mg/kg	80-26-2	p-menth-1-en-8-yl acetate	
Marine sediment         0.045 mg/kg           Micro-organisms in sewage treatment plants (STP)         10 mg/l           Soil         0.086 mg/kg           115-95-7         LINALYL ACETATE           Freshwater (intermittent releases)         0.011 mg/l           Marine water         0.001 mg/l           Freshwater sediment         0.609 mg/kg           Marine sediment         0.609 mg/kg           Micro-organisms in sewage treatment plants (STP)         1 mg/l           Soil         0.116 mg/kg           106-22-9         CITRONELLOL           Freshwater         0.026 mg/kg           Marine sediment         0.026 mg/kg           Marine sediment         0.026 mg/kg           Micro-organisms in sewage treatment plants (STP)         580 mg/l           Soil         0.026 mg/kg           Marine sediment         0.03 mg/kg           Micro-organisms in sewage treatment plants (STP)         580 mg/l           Soil         0.004 mg/kg           Marine sediment         0.0013 mg/l           Freshwater (intermittent releases)         0.0013 mg/l           Marine water         0.00013 mg/l           Freshwater sediment         0.00013 mg/l           Marine sediment         0.008 mg/kg	Freshwater	sediment	0,453 mg/kg
Micro-organisms in sewage treatment plants (STP)       10 mg/l         Soil       0.086 mg/kg         115-95-7       LINALYL ACETATE         Freshwater       0.011 mg/l         Freshwater (internittent releases)       0.11 mg/l         Marine water       0.001 mg/l         Freshwater sediment       0.001 mg/kg         Marine sediment       0.061 mg/kg         Micro-organisms in sewage treatment plants (STP)       1 mg/l         Soil       0.015 mg/kg         Marine sediment       0.002 mg/l         Freshwater sediment       0.002 mg/l         Freshwater sediment in sewage treatment plants (STP)       580 mg/l         Soil       0.03 mg/kg         Micro-organisms in sewage treatment plants (STP)       580 mg/l         Soil       0.004 mg/kg         97-53-0       EUGENOL         Freshwater       0.00113 mg/l         Freshwater (intermittent releases)       0.00113 mg/l         Marine sediment       0.008 mg/kg         Soil       0.00113 mg/l         Freshwater sediment       0.008 mg/kg         Soil       0.0013 mg/l         Freshwater (intermittent releases)       0.00113 mg/l         Marine sediment       0.008 mg/kg	Marine sedi	ment	
Soil         0.086 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         0.015 mg/kg           106-22-9         CITRONELLOL           Freshwater         0.002 mg/l           Freshwater sediment         0.026 mg/kg           Marine sediment         0.026 mg/kg           Micro-organisms in sewage treatment plants (STP)         580 mg/l           Soil         0.004 mg/kg           97-53-0         EUGENOL           Freshwater         0.00113 mg/l           Freshwater (intermittent releases)         0.00113 mg/l           Marine water         0.00913 mg/l           Freshwater sediment         0.008 mg/kg           Soil         0.00113 mg/l           Marine sediment         0.008 mg/kg           Soil         0.0013 mg/l           Freshwater sediment         0.008 mg/kg           Soil         0.015 mg/kg	Micro-orgar	nisms in sewage treatment plants (STP)	
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           106-22-9         CITRONELLOL           Freshwater         0.002 mg/l           Freshwater sediment         0.002 mg/l           Marine sediment         0.026 mg/kg           Micro-organisms in sewage treatment plants (STP)         580 mg/l           Soil         0.004 mg/kg           97-53-0         EUGENOL           Freshwater         0.0013 mg/l           Freshwater (intermittent releases)         0.0113 mg/l           Marine water         0.00013 mg/l           Freshwater sediment         0.001 mg/kg           Marine sediment         0.008 mg/kg           Soil         0.001 mg/kg           Soil         0.001 mg/kg           Soil         0.001 mg/kg           Soil         0.001 mg/kg			
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       0,0115 mg/kg         Freshwater sediment       0,002 mg/l         Freshwater sediment       0,026 mg/kg         Marine sediment       0,03 mg/kg         Soil       0,004 mg/kg         97-53-0       EUGENOL         Freshwater       0,00113 mg/l         Freshwater (intermittent releases)       0,0113 mg/l         Marine water       0,0081 mg/kg         Freshwater sediment       0,0081 mg/kg         Marine sediment       0,008 mg/kg         Soil       0,0015 mg/kg         Marine sediment       0,008 mg/kg         Soil       0,0015 mg/kg         Marine sediment       0,008 mg/kg         Soil       0,0015 mg/kg	115-95-7	LINALYL ACETATE	,
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         106-22-9       CITRONELLOL         Freshwater       0.002 mg/l         Freshwater sediment       0.026 mg/kg         Marine sediment       0.03 mg/kg         Micro-organisms in sewage treatment plants (STP)       580 mg/l         Soil       0.004 mg/kg         97-53-0       EUGENOL         Freshwater       0.00113 mg/l         Freshwater (intermittent releases)       0.0113 mg/l         Marine water       0.0081 mg/kg         Freshwater sediment       0.008 mg/kg         Soil       0.008 mg/kg         Soil       0.015 mg/kg         Soil       0.015 mg/kg         Soil       0.015 mg/kg         Soil       0.015 mg/kg	Freshwater	<u> </u>	0,011 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           Freshwater         0,002 mg/l           Freshwater sediment         0,026 mg/kg           Marine sediment         0,03 mg/kg           Soil         0,03 mg/kg           Soil properties in sewage treatment plants (STP)         580 mg/l           Soil properties in sewage treatment plants (STP)         0,004 mg/kg           Soil properties in sewage treatment plants (STP)         0,001 mg/kg           Soil properties in sewage treatment plants (STP)         0,001 mg/kg           Soil properties in sewage treatment plants (STP)         0,001 mg/kg           Soil properties in sewage treatment plants (STP)         0,001 mg/kg           Soil properties in sewage treatment plants (STP)         0,001 mg/kg           Soil properties in sewage treatment plants (STP)         0,001 mg/kg           Soil properties in sewage treatment plants (STP)         0,001 mg/kg           Soil properties in sewage treatment plants (STP)         0,001 mg/kg           Soi	Freshwater	(intermittent releases)	0,11 mg/l
Marine sediment       0.061 mg/kg         Micro-organisms in sewage treatment plants (STP)       1 mg/l         Soil       0.115 mg/kg         Treshwater       0.002 mg/l         Freshwater sediment       0.002 mg/kg         Marine sediment       0.026 mg/kg         Micro-organisms in sewage treatment plants (STP)       580 mg/l         Soil       0.004 mg/kg         97-53-0       EUGENOL         Freshwater       0.00113 mg/l         Freshwater (intermittent releases)       0.00113 mg/l         Marine water       0.0081 mg/kg         Marine sediment       0.081 mg/kg         Marine sediment       0.008 mg/kg         Soil       0.0015 mg/kg         Marine sediment       0.015 mg/kg         Marine sediment       0.0015 mg/kg	Marine water		0,001 mg/l
Ing/I         Soil       0,115 mg/kg         106-22-9       CITRONELLOL         Freshwater       0,002 mg/l         Freshwater sediment       0,026 mg/kg         Marine sediment       0,03 mg/kg         Micro-organisms in sewage treatment plants (STP)       580 mg/l         Soil       0,004 mg/kg         97-53-0       EUGENOL         Freshwater (intermittent releases)       0,0113 mg/l         Marine water       0,000113 mg/l         Freshwater sediment       0,0081 mg/kg         Marine sediment       0,008 mg/kg         Soil       0,008 mg/kg         Soil       0,015 mg/kg         80-56-8       PINENE         Secondary poisoning       8,76 mg/kg	Freshwater sediment		0,609 mg/kg
Soil       0,115 mg/kg         106-22-9       CITRONELLOL         Freshwater       0,002 mg/l         Freshwater sediment       0,026 mg/kg         Marine sediment       0,03 mg/kg         Micro-organisms in sewage treatment plants (STP)       580 mg/l         Soil       0,004 mg/kg         97-53-0       EUGENOL         Freshwater       0,00113 mg/l         Freshwater (intermittent releases)       0,0113 mg/l         Marine water       0,000113 mg/l         Freshwater sediment       0,081 mg/kg         Marine sediment       0,008 mg/kg         Soil       0,015 mg/kg         80-56-8       PINENE         Secondary poisoning       8,76 mg/kg	Marine sediment		0,061 mg/kg
106-22-9         CITRONELLOL           Freshwater         0.002 mg/l           Freshwater sediment         0.026 mg/kg           Marine sediment         0.03 mg/kg           Micro-organisms in sewage treatment plants (STP)         580 mg/l           Soil         0.004 mg/kg           97-53-0         EUGENOL           Freshwater         0.00113 mg/l           Freshwater (intermittent releases)         0.0113 mg/l           Marine water         0.000113 mg/l           Freshwater sediment         0.081 mg/kg           Marine sediment         0.008 mg/kg           Soil         0.015 mg/kg           Soil         0.015 mg/kg           8.76 mg/kg	Micro-orgar	nisms in sewage treatment plants (STP)	1 mg/l
Freshwater         0,002 mg/l           Freshwater sediment         0,026 mg/kg           Marine sediment         0,03 mg/kg           Micro-organisms in sewage treatment plants (STP)         580 mg/l           Soil         0,004 mg/kg           97-53-0         EUGENOL           Freshwater         0,00113 mg/l           Freshwater (intermittent releases)         0,0113 mg/l           Marine water         0,000113 mg/l           Freshwater sediment         0,081 mg/kg           Soil         0,008 mg/kg           Soil         0,015 mg/kg           80-56-8         PINENE           Secondary poisoning         8,76 mg/kg	Soil		0,115 mg/kg
Freshwater sediment       0,026 mg/kg         Marine sediment       0,03 mg/kg         Micro-organisms in sewage treatment plants (STP)       580 mg/l         Soil       0,004 mg/kg         97-53-0       EUGENOL         Freshwater       0,00113 mg/l         Freshwater (intermittent releases)       0,0113 mg/l         Marine water       0,000113 mg/l         Freshwater sediment       0,081 mg/kg         Marine sediment       0,008 mg/kg         Soil       0,015 mg/kg         80-56-8       PINENE         Secondary poisoning       8,76 mg/kg	106-22-9	CITRONELLOL	
Marine sediment       0.03 mg/kg         Micro-organis™s in sewage treatment plants (STP)       580 mg/l         Soil       0.004 mg/kg         97-53-0       EUGENOL         Freshwater       0.00113 mg/l         Freshwater (intermittent releases)       0.0113 mg/l         Marine water       0.000113 mg/l         Freshwater sediment       0.081 mg/kg         Soil       0.015 mg/kg         80-56-8       PINENE         Secondary poising       8,76 mg/kg	Freshwater		0,002 mg/l
580 mg/l           Soil         0,004 mg/kg           97-53-0         EUGENOL           Freshwater           Freshwater (intermittent releases)         0,00113 mg/l           Marine water         0,000113 mg/l           Freshwater sediment         0,0081 mg/kg           Marine sediment         0,008 mg/kg           Soil         0,015 mg/kg           80-56-8         PINENE           Secondary poisoning         8,76 mg/kg	Freshwater	sediment	0,026 mg/kg
Soil         0,004 mg/kg           97-53-0         EUGENOL           Freshwater         0,00113 mg/l           Freshwater (intermittent releases)         0,013 mg/l           Marine water         0,0081 mg/kg           Freshwater sediment         0,081 mg/kg           Marine sediment         0,008 mg/kg           Soil         0,015 mg/kg           80-56-8         PINENE           Secondary poisoning         8,76 mg/kg	Marine sedi	ment	0,03 mg/kg
97-53-0         EUGENOL           Freshwater         0,00113 mg/l           Freshwater (intermittent releases)         0,0113 mg/l           Marine water         0,000113 mg/l           Freshwater sediment         0,081 mg/kg           Marine sediment         0,008 mg/kg           Soil         0,015 mg/kg           80-56-8         PINENE           Secondary poisoning         8,76 mg/kg	Micro-orgar	nisms in sewage treatment plants (STP)	580 mg/l
Freshwater         0,00113 mg/l           Freshwater (intermittent releases)         0,0113 mg/l           Marine water         0,000113 mg/l           Freshwater sediment         0,081 mg/kg           Marine sediment         0,008 mg/kg           Soil         0,015 mg/kg           80-56-8         PINENE           Secondary poisoning         8,76 mg/kg	Soil		0,004 mg/kg
Freshwater (intermittent releases)         0,0113 mg/l           Marine water         0,000113 mg/l           Freshwater sediment         0,081 mg/kg           Marine sediment         0,008 mg/kg           Soil         0,015 mg/kg           80-56-8         PINENE           Secondary poisoning         8,76 mg/kg	97-53-0	EUGENOL	
Marine water       0,000113 mg/l         Freshwater sediment       0,081 mg/kg         Marine sediment       0,008 mg/kg         Soil       0,015 mg/kg         80-56-8       PINENE         Secondary poisoning       8,76 mg/kg	Freshwater		0,00113 mg/l
Marine water       0,000113 mg/l         Freshwater sediment       0,081 mg/kg         Marine sediment       0,008 mg/kg         Soil       0,015 mg/kg         80-56-8       PINENE         Secondary poisoning       8,76 mg/kg	Freshwater	(intermittent releases)	0,0113 mg/l
Marine sediment         0,008 mg/kg           Soil         0,015 mg/kg           80-56-8         PINENE           Secondary poisoning         8,76 mg/kg			
Marine sediment         0,008 mg/kg           Soil         0,015 mg/kg           80-56-8         PINENE           Secondary poisoning         8,76 mg/kg	Freshwater sediment		0,081 mg/kg
Soil         0,015 mg/kg           80-56-8         PINENE           Secondary poisoning         8,76 mg/kg	Marine sedi	ment	
80-56-8         PINENE           Secondary poisoning         8,76 mg/kg			
		PINENE	, , ,
	Secondary	poisoning	8,76 mg/kg

### Additional advice on limit values

No data is available on the product itself.

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### 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

### 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.

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according to UK REACH Regulation

### 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: 260 °C

Vapour pressure (at 20 °C): 57,26 hPa

Vapour pressure (at 50 °C): 293 hPa

Density: 0,82 g/cm³

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according to UK REACH Regulation

### 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 (NOx), Acids, Hydrocarbons, Hydrogen cyanide (hydrocyanic acid). Oxidizing and spontaneously flammable products.

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### 11 SECTION 11: Toxicological information

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

### Toxicocinetics, 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) > 2000 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
87-44-5	BETA-CARYOPHYLLENE					
	oral	LD50	>5000 mg/kg	Mouse		
78-70-6	linalool; 3,7-dimethyl-1,6	6-octadier	n-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
80-26-2	p-menth-1-en-8-yl ace	tate				
	oral	LD50	5075 mg/kg			
115-95-7	LINALYL ACETATE					
	oral	LD50	>9000 mg/kg	Rat		
	dermal	LD50	>5000 mg/kg	Rabbit		
106-22-9	CITRONELLOL					
	oral	LD50	3450 mg/kg	Rat		
	dermal	LD50	2650 mg/kg	Rabbit		
106-24-1	geraniol; (2E)-3,7-dimet	hylocta-2	2,6-dien-1-ol			
	oral	LD50	3600 mg/kg	Rat		
	dermal	LD50	5000 mg/kg	Rabbit		
97-53-0	EUGENOL					
	oral	LD50	>2000 mg/kg	Rat		OECD 423
	inhalation (4 h) vapour	LC50	>2,6 mg/l	Rat		0ECD 403
80-56-8	PINENE					
	oral	LD50	500 mg/kg	Rat		0ECD 423
	dermal	LD50	>2000 mg/kg	Rat		OECD Test Guideline 402

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### Irritation and corrosivity

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

### Sensitising effects

May cause an allergic skin reaction. (BETA-CARYOPHYLLENE; linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool; LINALYL ACETATE; CITRONELLOL; geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol; EUGENOL; PINENE; isoeugenol)

### 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
87-44-5	BETA-CARYOPHYLLENE	•				•	
	Acute algae toxicity	ErC50 mg/l	>0,033	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50	>0,17 mg/l	48 h	Daphnia magna (Big water flea)		
78-70-6	linalool; 3,7-dimethyl-1,6	-octadien-	-3-ol; dl-linalo	ol			
	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		0ECD 209
80-26-2	p-menth-1-en-8-yl acetate						
	Acute fish toxicity	LC50	>11 mg/l	96 h	Pimephales promelas (fathead minnow)		OECD Test Guideline 203
	Acute algae toxicity	ErC50	6,9 mg/l	72 h	Desmodesmus subspicatus		OECD Test Guideline 201
	Acute crustacea toxicity	EC50	>10 mg/l	48 h	Daphnia magna (Big water flea)		OECD Test Guideline 202
115-95-7	LINALYL ACETATE						_
	Acute fish toxicity	LC50	11 mg/l	96 h	Cyprinus carpio (Common Carp)		0ECD 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		0ECD 209

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106-22-9	CITRONELLOL  Acute fish toxicity  Acute algae toxicity  Acute crustacea toxicity  Fish toxicity  Crustacea toxicity  Acute bacteria toxicity  geraniol; (2E)-3,7-dimetric	LC50 ErC50 EC50 NOEC NOEC (EC50 mg/l)	14,66 mg/l 2,4 mg/l 17,48 mg/l 4,6 mg/l 3,1 mg/l >10000	96 h 72 h 48 h 4 d 2 d	Leuciscus idus (golden orfe)  Daphnia magna (Big water flea)  Leuciscus idus (golden orfe)  Daphnia magna (Big water flea)	
	Acute algae toxicity Acute crustacea toxicity Fish toxicity  Crustacea toxicity  Acute bacteria toxicity geraniol; (2E)-3,7-dimetri	ErC50 EC50 NOEC NOEC (EC50 mg/l)	2,4 mg/l 17,48 mg/l 4,6 mg/l 3,1 mg/l	72 h 48 h 4 d 2 d	(golden orfe)  Daphnia magna (Big water flea)  Leuciscus idus (golden orfe)  Daphnia magna (Big	
	Acute crustacea toxicity  Fish toxicity  Crustacea toxicity  Acute bacteria toxicity  geraniol; (2E)-3,7-dimeth	NOEC NOEC (EC50 mg/l)	17,48 mg/l 4,6 mg/l 3,1 mg/l	48 h 4 d 2 d	water flea)  Leuciscus idus (golden orfe)  Daphnia magna (Big	
	toxicity  Fish toxicity  Crustacea toxicity  Acute bacteria toxicity  geraniol; (2E)-3,7-dimetr	NOEC  NOEC  (EC50 mg/l)	4,6 mg/l 3,1 mg/l	4 d 2 d	water flea)  Leuciscus idus (golden orfe)  Daphnia magna (Big	
	Crustacea toxicity  Acute bacteria toxicity  geraniol; (2E)-3,7-dimetr	NOEC (EC50 mg/l)	3,1 mg/l	2 d	(golden orfe) Daphnia magna (Big	
	Acute bacteria toxicity geraniol; (2E)-3,7-dimeth	(EC50 mg/l)				
	geraniol; (2E)-3,7-dimetr	mg/l)	>10000		I	
	, ,			0,5 h	Pseudomonas putida	
106-24-1		iyiocta-2,6	6-dien-1-ol			
	Acute fish toxicity	LC50	22 mg/l	96 h	Danio rerio (zebrafish)	0ECD 203
	Acute algae toxicity	ErC50	13,1 mg/l	72 h	Desmodesmus subspicatus	OECD 201
	Acute crustacea toxicity	EC50	10,8 mg/l	48 h	Daphnia magna (Big water flea)	0ECD 202
	Fish toxicity	NOEC	10 mg/l	4 d	Danio rerio (zebrafish)	0ECD 203
	Algae toxicity	NOEC	1 mg/l	3 d	Desmodesmus subspicatus	OECD 201
	Acute bacteria toxicity	(EC50	70 mg/l)	0,5 h	Activated sludge	0ECD 209
97-53-0	EUGENOL					
	Acute fish toxicity	LC50	13 mg/l	96 h	Danio rerio (zebrafish)	0ECD 203
	Acute algae toxicity	ErC50	24 mg/l	72 h	Desmodesmus subspicatus	0ECD 201
	Acute crustacea toxicity	EC50	1,05 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202
	Fish toxicity	NOEC	10 mg/l	4 d	Danio rerio (zebrafish)	OECD 203
	Algae toxicity	NOEC	23 mg/l	3 d	Desmodesmus subspicatus	0ECD 201
169-61-4	ALPHA-CEDRENE					
	Acute crustacea toxicity	EC50	0,044 mg/l	48 h	Daphnia pulex (water flea)	
30-56-8	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			

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# 12.2 Persistence and degradability

No data is available on the product itself.

CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation					
87-44-5	BETA-CARYOPHYLLENE					
	Degradation OECD 301D/ EEC 92/69/V, C.4-E	10%	28			
	Not 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			
80-26-2	p-menth-1-en-8-yl acetate					
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	63%	28			
	Readily biodegradable.					
115-95-7	LINALYL ACETATE					
	Degradation OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	70-80%	28			
	Readily biodegradable.					
106-22-9	CITRONELLOL					
	Degradation OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	80%	28			
	Readily biodegradable.					
106-24-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol					
	OECD 301A	>90%	3			
	Not readily biodegradable.					
97-53-0	EUGENOL					
	OECD 301D/ EEC 92/69/V, C.4-E	82%	28			
	Readily biodegradable.					
80-56-8	PINENE					
	Degradation OECD 301D/ EEC 92/69/V, C.4-E	68%	28			
	Readily biodegradable.					

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### 12.3 Bioaccumulative potential

No data is available on the product itself.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
87-44-5	BETA-CARYOPHYLLENE	6,23
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	2,9
80-26-2	p-menth-1-en-8-yl acetate	4,4
115-95-7	LINALYL ACETATE	3,9
106-22-9	CITRONELLOL	3,41
106-24-1	geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol	2,6
97-53-0	EUGENOL	1,83
469-61-4	ALPHA-CEDRENE	6,308
80-56-8	PINENE	4,46

### **BCF**

CAS No	Chemical name	BCF	Species	Source
106-22-9	CITRONELLOL	82,59		

### 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.

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### 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.

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according to UK REACH Regulation

### 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:

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:

Hazard label: 3



Classification code: F1

Special Provisions: 163 640D

Limited quantity: 5 L

Excepted quantity: E2

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### 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:

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:

Hazard label: 3



Special Provisions: A3 A72

Limited quantity Passenger: 1L

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

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according to UK REACH Regulation

### 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): 80,082 % (832,853 g/l)

2004/42/EC (VOC): 81,24 % (844,896 g/l)

Information according to 2012/18/EU (SEVESO III):

P5c FLAMMABLE LIQUIDS

#### 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): 2 - obviously hazardous to water

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### 16 SECTION 16: Other information

### Abbreviations and acronyms

Flam. Liq: Flammable liquids

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 3; H412	Calculation method

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according to UK REACH Regulation

### Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

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.

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