

Safety Data Sheet

according to UK REACH Regulation

KerbEx Rot

Revision date: 25.02.2021

Product code:

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

KerbEx Rot

UFI: 9300-P0FU-K00Q-G90A

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

biocides, repellent liquid

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: Andrea Krecklow
 Street: Drestedter Weg 45
 Place: D-21279 Wenzendorf
 Telephone: +49 4165 998797
 e-mail: info@kerbex.de
 Contact person: Andrea Krecklow
 Internet: https://www.kerbex.de
 Responsible Department: info@kerbex.de

1.4. Emergency telephone number:

+49 4165 998797

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

2.2. Label elements**GB CLP Regulation**

Signal word: Warning

Pictograms:

**Hazard statements**

H319 Causes serious eye irritation.
 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.
 P264 Wash hands thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P501 Dispose of contents/container in accordance with local/regional/national/international

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regulations.

Special labelling of certain mixtures

EUH208

Contains eugenol, dipentene; limonene, Cineole, diallyl disulphide, linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool, linalyl acetate. May produce an allergic reaction.

2.3. Other hazards

The substances in the mixture (>0,1%) do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
119515-38-7	sec-butyl 2-(2-hydroxyethyl)piperidine-1-carboxylate/lcaridine			12 - < 15 %
	423-210-8			
	Eye Irrit. 2; H319			
97-53-0	eugenol			0.3 - < 0.5 %
	202-589-1			
	Eye Irrit. 2, Skin Sens. 1; H319 H317			
138-86-3	dipentene; limonene			0.2 - < 0.3 %
	205-341-0	601-029-00-7		
	Flam. Liq. 3, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H226 H315 H319 H317 H400 H410			
470-82-6	Cineole			0.2 - < 0.3 %
	207-431-5		01-2119967772-24	
	Flam. Liq. 3, Skin Sens. 1B; H226 H317			
2179-57-9	diallyl disulphide			0.2 - < 0.3 %
	218-548-6			
	Flam. Liq. 3, Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H226 H311 H315 H319 H317			
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool			0.1 - < 0.2 %
	201-134-4	603-235-00-2	01-2119474016-42	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317			
115-95-7	linalyl acetate			0.1 - < 0.2 %
	204-116-4		01-2119454789-19	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317			
11028-42-5	alpha-Cedrene			< 0.1 %
	234-257-7			
	Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H304 H400 H410			

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		
97-53-0	202-589-1	eugenol	0.3 - < 0.5 %
	inhalation: LC50 = (>2,6) mg/l (dusts or mists); oral: LD50 = >2000 mg/kg		
138-86-3	205-341-0	dipentene; limonene	0.2 - < 0.3 %

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	oral: LD50 = 5300 mg/kg M acute; H400: M=1 M chron.; H410: M=1	
2179-57-9	218-548-6 diallyl disulphide	0.2 - < 0.3 %
	dermal: ATE = 300 mg/kg	
78-70-6	201-134-4 linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	0.1 - < 0.2 %
	dermal: LD50 = 5610 mg/kg; oral: LD50 = 2790 mg/kg	
115-95-7	204-116-4 linalyl acetate	0.1 - < 0.2 %
	dermal: LD50 = >5000 mg/kg; oral: LD50 = >9000 mg/kg	
11028-42-5	234-257-7 alpha-Cedrene	< 0.1 %
	M acute; H400: M=10 M chron.; H410: M=10	

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

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

After inhalation

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

After contact with skin

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

After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂). Dry extinguishing powder. alcohol resistant foam. Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO₂).

5.3. Advice for firefighters

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

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Safe handling: see section 7

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up**For containment**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Wear suitable protective clothing. See section 8.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

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

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20°C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****DNEL/DMEL values**

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CAS No	Substance			
DNEL type		Exposure route	Effect	Value
470-82-6	Cineole			
Worker DNEL, long-term		inhalation	systemic	7,05 mg/m³
Worker DNEL, long-term		dermal	systemic	2 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,74 mg/m³
Consumer DNEL, long-term		dermal	systemic	1 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	600 mg/kg bw/day
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool			
Worker DNEL, long-term		inhalation	systemic	2,8 mg/m³
Worker DNEL, acute		inhalation	systemic	16,5 mg/m³
Worker DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	5 mg/kg bw/day
Worker DNEL, long-term		dermal	local	3 mg/cm²
Worker DNEL, acute		dermal	local	3 mg/cm²
Consumer DNEL, long-term		inhalation	systemic	0,7 mg/m³
Consumer DNEL, acute		inhalation	systemic	4,1 mg/m³
Consumer DNEL, long-term		dermal	systemic	1,25 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	1,5 mg/cm²
Consumer DNEL, acute		dermal	local	1,5 mg/cm²
Consumer DNEL, long-term		oral	systemic	0,2 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	1,2 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
Worker DNEL, long-term		dermal	local	8 mg/cm²
Worker DNEL, acute		dermal	local	8 mg/cm²
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		dermal	local	8 mg/cm²
Consumer DNEL, acute		dermal	local	8 mg/cm²
Consumer DNEL, long-term		oral	systemic	0,2 mg/kg bw/day

PNEC values

CAS No	Substance		
Environmental compartment			Value
470-82-6	Cineole		
Freshwater			0,057 mg/l
Freshwater (intermittent releases)			0,57 mg/l
Marine water			0,0057 mg/l
Freshwater sediment			1,425 mg/kg
Marine sediment			0,142 mg/kg

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Secondary poisoning	40 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,25 mg/kg
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool
Freshwater	0,2 mg/l
Freshwater (intermittent releases)	2 mg/l
Marine water	0,02 mg/l
Freshwater sediment	2,22 mg/kg
Marine sediment	0,222 mg/kg
Secondary poisoning	7,8 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,327 mg/kg
115-95-7	linalyl acetate
Freshwater	0,011 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)	10 mg/l
Soil	0,115 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls



Appropriate engineering controls

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

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). BS/EN 166

Hand protection

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time $\geq$ 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time $\geq$ 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time $\geq$ 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time $\geq$ 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time $\geq$ 8 h

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard

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EN 374 derived from it.

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

Skin protection

Suitable protective clothing: Lab apron.

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

Respiratory protection

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

Respiratory protection necessary at:

-exceeding exposure limit values

-Insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Type: P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	not determined
Odour:	characteristic

Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	not determined

Explosive properties

none

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined

Self-ignition temperature

Gas:	not determined
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Flow time:	not determined
Water solubility:	not determined

Solubility in other solvents

not determined

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Partition coefficient n-octanol/water:

SECTION 12: Ecological information

Vapour pressure:

not determined

Density:

not determined

Relative vapour density:

not determined

9.2. Other information

Information with regard to physical hazard classes

Sustaining combustion:

Not sustaining combustion

Oxidizing properties

none

Other safety characteristics

Solvent separation test:

not determined

Solvent content:

not determined

Solid content:

not determined

Evaporation rate:

not determined

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Refer to chapter 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO₂).

SECTION 11: Toxicological information

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

Toxicokinetics, metabolism and distribution

No data available.

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
97-53-0	eugenol				
	oral	LD50 mg/kg	>2000	Rat	ECHA Dossier
	inhalation (4 h) aerosol	LC50 mg/l	(>2,6)	Rat	ECHA Dossier

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138-86-3	dipentene; limonene					
	oral	LD50 mg/kg	5300	Rat	RTECS	
2179-57-9	diallyl disulphide					
	dermal	ATE mg/kg	300			
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool					
	oral	LD50 mg/kg	2790	Rat	Food Cosmet. Toxicol. Vol. 2, pp. 327-34	OECD Guideline 401
	dermal	LD50 mg/kg	5610	Rabbit	Study report (1970)	OECD Guideline 402
115-95-7	linalyl acetate					
	oral	LD50 mg/kg	>9000	Rat.	ECHA Dossier	
	dermal	LD50 mg/kg	>5000	Rabbit.	ECHA Dossier	

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Contains eugenol, dipentene; limonene, Cineole, diallyl disulphide, linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool, linalyl acetate. May produce an allergic reaction.

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.

Aspiration hazard

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

Specific effects in experiment on an animal

No data available.

11.2. Information on other hazards**Endocrine disrupting properties**

No data available.

SECTION 12: Ecological information**12.1. Toxicity**

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
97-53-0	eugenol					
	Acute fish toxicity	LC50	13 mg/l	96 h	Danio rerio	ECHA Dossier
	Acute algae toxicity	ErC50	24 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier
	Acute crustacea toxicity	EC50 mg/l	1,13	48 h	Daphnia magna	ECHA Dossier
	Algae toxicity	NOEC	(23) mg/l	3 d	Desmodesmus subspicatus	ECHA Dossier

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470-82-6	Cineole						
	Acute fish toxicity	LC50	57 mg/l	96 h	Oncorhynchus mykiss	ECHA Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50	> 100 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50	> 100 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
	Acute bacteria toxicity	(> 100 mg/l)		3 h	activated sludge of a predominantly domestic sewage	ECHA Dossier	OECD Guideline 209
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	Study report (1991)	OECD Guideline 203
	Acute algae toxicity	ErC50	88,3 mg/l	96 h	Desmodesmus subspicatus	Study report (1988)	other: DIN 38412 L 9
	Acute crustacea toxicity	EC50	59 mg/l	48 h	Daphnia magna	Study report (1991)	OECD Guideline 202
	Acute bacteria toxicity	(> 100 mg/l)		0,5 h	activated sludge of a predominantly domestic sewage	Study report (1991)	OECD Guideline 209
115-95-7	linalyl acetate						
	Acute fish toxicity	LC50	11 mg/l	96 h	Cyprinus carpio (Common Carp)	ECHA Dossier	
	Acute algae toxicity	ErC50	62 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50	15 mg/l	48 h	Daphnia magna	ECHA Dossier	
	Algae toxicity	NOEC	(9,6) mg/l	3 d	Desmodesmus subspicatus	ECHA Dossier	

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
97-53-0	eugenol			
	EU Method C.4-E	82%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
470-82-6	Cineole			
	OECD Guideline 301 F	82%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool			
	OECD 301D / EEC 92/69 annex V, C.4-E	64,2%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
115-95-7	linalyl acetate			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	70-80%	28	ECHA Dossier
	Product is biodegradable.			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
97-53-0	eugenol	1,83

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138-86-3	dipentene; limonene	4,57
470-82-6	Cineole	3,4
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	2,9
115-95-7	linalyl acetate	3,9

BCF

CAS No	Chemical name	BCF	Species	Source
470-82-6	Cineole	125		QSAR

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture (>0,1%) do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

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

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

070401 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides; aqueous washing liquids and mother liquors; hazardous waste

List of Wastes Code - used product

070401 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides; aqueous washing liquids and mother liquors; hazardous waste

List of Wastes Code - contaminated packaging

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

Contaminated packaging

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

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

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Inland waterways transport (ADN)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Refer to section 6-8

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

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The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

UK REACH Appendix XVII, No (mixture): 3

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Cineole

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

linalyl acetate

SECTION 16: Other information

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Changes

- Rev. 1.0; Initial release: 02.11.2020
 Rev. 2.0; 07.12.2020, Changes in chapter: 2, 3, 16
 Rev. 2.1; 25.02.2021, Changes in chapter: 2-16

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 AGW: Arbeitsplatzgrenzwert
 CAS: Chemical Abstracts Service
 CLP: Classification, Labelling and Packaging of substances and mixtures
 DNEL: Derived No Effect Level
 d: day(s)
 EINECS: European INventory of Existing Commercial chemical Substances
 ELINCS: European List of Notified Chemical Substances
 ECHA: European Chemicals Agency
 EWC: European Waste Catalogue
 IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organization
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
 h: hour
 LOAEL: Lowest observed adverse effect level
 LOAEC: Lowest observed adverse effect concentration
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 NOAEL: No observed adverse effect level
 NOAEC: No observed adverse effect concentration
 NLP: No-Longer Polymers
 N/A: not applicable
 OECD: Organisation for Economic Co-operation and Development
 PNEC: predicted no effect concentration
 PBT: Persistent bioaccumulative toxic
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
 REACH: Registration, Evaluation, Authorisation of Chemicals
 SVHC: substance of very high concern
 TRGS: Technische Regeln für Gefahrstoffe
 UN: United Nations
 VOC: Volatile Organic Compounds

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

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H311 Toxic in contact with skin.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.

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H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains eugenol, dipentene; limonene, Cineole, diallyl disulphide, linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool, linalyl acetate. May produce an allergic reaction.

Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

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

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