

Safety Data Sheet

according to UK REACH Regulation

48034_48035_SDS_Neocid VERDE_Diffusor & Refill_GHS_GB

Revision date: 30.03.2022

Product code:

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

1.1. Product identifier

48034_48035_SDS_Neocid VERDE_Diffusor & Refill_GHS_GB

UFI: KU80-10CY-E004-Y1CT

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

Use of the substance/mixture

Air Freshener

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	Martec Handels AG	
Street:	Samstagenstrasse 45	
Place:	CH-8832 Wollerau	
Telephone:	+41 44 783 95 30	Telefax: +41 44 783 95 49
e-mail:	info@martec.swiss	
Responsible Department:	Dr. Gans-Eichler Chemieberatung GmbH Otto-Hahn-Str. 36 D-48161 Münster	e-mail: info@tge-consult.de Tel.: +49(0)2534 6441185 www.tge-consult.de

1.4. Emergency telephone number:

Swiss Toxicological Information Centre (STIC) CH-8030 Zürich National 24 h
emergency telephone: 145 (Outside of Switzerland: +41 44 251 51 51)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Skin Irrit. 2; H315
Eye Irrit. 2; H319
Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

linalyl acetate
4-tert-Butylcyclohexyl acetate
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool
Neryl acetate
Dimethylcyclohex-3-en-1-carbaldehyde
citronellal

Signal word: Warning

Pictograms:



Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

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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 regulations.

2.3. Other hazards

For information or further instructions, see also section 11 or 12.

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

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
34590-94-8	(2-methoxymethylethoxy)propanol	80 - < 85 %
	252-104-2	01-2119450011-60
115-95-7	linalyl acetate	30 - < 35 %
	204-116-4	01-2119454789-19
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317	
32210-23-4	4-tert-Butylcyclohexyl acetate	30 - < 35 %
	250-954-9	01-2119976286-24
	Skin Sens. 1B; H317	
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	5 - < 7 %
	201-134-4	603-235-00-2
	01-2119474016-42	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317	
141-12-8	Neryl acetate	0.5 - < 1 %
	205-459-2	01-2120748334-54
	Skin Sens. 1B; H317	
27939-60-2	Dimethylcyclohex-3-en-1-carbaldehyde	0.5 - < 1 %
	248-742-6	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2; H315 H319 H317 H411	
106-23-0	citronellal	0.5 - < 1 %
	203-376-6	01-2119474900-37
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317	
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene	0.5 - < 1 %
	227-813-5	601-096-00-2
	01-2119529223-47	
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1B, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 3; H226 H315 H317 H304 H400 H412	
5392-40-5	citral	0.5 - < 1 %
	226-394-6	605-019-00-3
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B; H315 H319 H317	

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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			
34590-94-8	252-104-2	(2-methoxymethylethoxy)propanol	80 - < 85 %
dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg			
115-95-7	204-116-4	linalyl acetate	30 - < 35 %
dermal: LD50 = >5000 mg/kg; oral: LD50 = >9000 mg/kg			
32210-23-4	250-954-9	4-tert-Butylcyclohexyl acetate	30 - < 35 %
dermal: LD50 = >4680 mg/kg; oral: LD50 = 3370 mg/kg			
78-70-6	201-134-4	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	5 - < 7 %
dermal: LD50 = 5610 mg/kg; oral: LD50 = 2790 mg/kg			
106-23-0	203-376-6	citronellal	0.5 - < 1 %
dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg			
5989-27-5	227-813-5	(R)-p-mentha-1,8-diene; d-limonene	0.5 - < 1 %
dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 2000 mg/kg M acute; H400: M=1			
5392-40-5	226-394-6	citral	0.5 - < 1 %
dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg			

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.

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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.

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

Maximum storage temperature: 50°C

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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

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
34590-94-8	(2-methoxymethylethoxy) propanol	50	308		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
34590-94-8	(2-methoxymethylethoxy)propanol			
	Consumer DNEL, long-term	dermal	systemic	121 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	36 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	37,2 mg/m ³
	Worker DNEL, long-term	dermal	systemic	283 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	308 mg/m ³
115-95-7	linalyl acetate			
	Worker DNEL, long-term	inhalation	systemic	2,75 mg/m ³
	Worker DNEL, long-term	dermal	systemic	2,5 mg/kg bw/day
	Worker DNEL, long-term	dermal	local	8 mg/cm ²
	Worker DNEL, acute	dermal	local	8 mg/cm ²
	Consumer DNEL, long-term	inhalation	systemic	0,68 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	1,25 mg/kg bw/day
	Consumer DNEL, long-term	dermal	local	8 mg/cm ²
	Consumer DNEL, acute	dermal	local	8 mg/cm ²
	Consumer DNEL, long-term	oral	systemic	0,2 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/m ³
	Worker DNEL, acute	inhalation	systemic	16,5 mg/m ³
	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/cm ²
	Worker DNEL, acute	dermal	local	3 mg/cm ²
	Consumer DNEL, long-term	inhalation	systemic	0,7 mg/m ³
	Consumer DNEL, acute	inhalation	systemic	4,1 mg/m ³
	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/cm ²
	Consumer DNEL, acute	dermal	local	1,5 mg/cm ²

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Consumer DNEL, long-term	oral	systemic	0,2 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	1,2 mg/kg bw/day
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene		
Worker DNEL, long-term	inhalation	systemic	66,7 mg/m ³
Worker DNEL, long-term	dermal	systemic	9,5 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	16,6 mg/m ³
Consumer DNEL, long-term	dermal	systemic	4,8 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	4,8 mg/kg bw/day

PNEC values

CAS No	Substance	Value
Environmental compartment		
34590-94-8	(2-methoxymethylethoxy)propanol	
Freshwater		19 mg/l
Marine water		1,9 mg/l
Freshwater sediment		70,2 mg/kg
Marine sediment		7,02 mg/kg
Micro-organisms in sewage treatment plants (STP)		4168 mg/l
Soil		2,74 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
32210-23-4	4-tert-Butylcyclohexyl acetate	
Freshwater		0,0053 mg/l
Marine water		0,00053 mg/l
Freshwater sediment		0,21 mg/kg
Marine sediment		2,01 mg/kg
Secondary poisoning		66,67 mg/kg
Micro-organisms in sewage treatment plants (STP)		12,3 mg/l
Soil		0,42 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
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene	

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Freshwater	0,014 mg/l
Marine water	0,0014 mg/l
Freshwater sediment	3,85 mg/kg
Marine sediment	0,385 mg/kg
Secondary poisoning	133 mg/kg
Micro-organisms in sewage treatment plants (STP)	1,8 mg/l
Soil	0,763 mg/kg

8.2. Exposure controls

Appropriate engineering controls

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

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

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour: colourless
 Odour: characteristic

Changes in the physical state

Melting point/freezing point: not determined
 Boiling point or initial boiling point and boiling range: 201 °C
 Sublimation point: not determined
 Softening point: not determined
 Pour point: not determined
 Flash point: 82 °C

Explosive properties

none

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

Self-ignition temperature

Gas: 200 °C

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

Partition coefficient n-octanol/water: SECTION 12: Ecological information
 Vapour pressure: 0,35 hPa
 (at 20 °C)
 Vapour pressure: 2,6196 hPa
 (at 50 °C)
 Density (at 20 °C): 0,961 g/cm³
 Relative density (at 20 °C): 0,961
 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

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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
34590-94-8	(2-methoxymethylethoxy)propanol				
	oral	LD50 >5000 mg/kg	Rat	ECHA dossier	OECD Guideline 401
	dermal	LD50 >2000 mg/kg	Rabbit	ECHA dossier	OECD Guideline 402
115-95-7	linalyl acetate				
	oral	LD50 >9000 mg/kg	Rat.	ECHA Dossier	
	dermal	LD50 >5000 mg/kg	Rabbit.	ECHA Dossier	
32210-23-4	4-tert-Butylcyclohexyl acetate				
	oral	LD50 3370 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >4680 mg/kg	Rabbit	ECHA Dossier	
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool				
	oral	LD50 2790 mg/kg	Rat	Food Cosmet. Toxicol. Vol. 2, pp. 327-34	OECD Guideline 401

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	dermal	LD50 mg/kg	5610	Rabbit	Study report (1970)	OECD Guideline 402
106-23-0	citronellal					
	oral	LD50 mg/kg	>2000	Rat	ECHA Dossier	
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier	
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene					
	oral	LD50 mg/kg	> 2000	Rat	ECHA Dossier	OECD Guideline 423
	dermal	LD50 mg/kg	> 5000		ECHA Dossier	
5392-40-5	citral					
	oral	LD50 mg/kg	>5000	Rat.	ECHA Dossier	
	dermal	LD50 mg/kg	>2000	Rat.	ECHA Dossier	

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (linalyl acetate; 4-tert-Butylcyclohexyl acetate; linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool; Neryl acetate; Dimethylcyclohex-3-en-1-carbaldehyde; citronellal; (R)-p-mentha-1,8-diene; d-limonene; citral)

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
34590-94-8	(2-methoxymethylethoxy)propanol					
	Acute fish toxicity	LC50 mg/l	>1000	96 h	Poecilia reticulata	ECHA dossier OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	>1000	72 h	Pseudokirchnerella subcapitata (OECD 201)	ECHA dossier OECD Guideline 201

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	Acute crustacea toxicity	EC50 mg/l	1919	48 h	Daphnia magna	ECHA dossier	OECD Guideline 202
	Crustacea toxicity	NOEC mg/l	>= 0.5	22 d	Daphnia magna	ECHA dossier	OECD Guideline 211
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 mg/l	(9,6)	3 d	Desmodesmus subspicatus	ECHA Dossier	
32210-23-4	4-tert-Butylcyclohexyl acetate						
	Acute fish toxicity	LC50	8,6 mg/l	96 h	Cyprinus carpio (Common Carp)	ECHA Dossier	
	Acute algae toxicity	ErC50	22 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50	5,3 mg/l	48 h	Daphnia magna	ECHA Dossier	
	Acute bacteria toxicity	(EC50 mg/l)	302	3 h	Activated sludge	ECHA Dossier	
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool						
	Acute fish toxicity	LC50 mg/l	27,8	96 h	Oncorhynchus mykiss	Study report (1991)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	88,3	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	(EC50 mg/l)	> 100	0,5 h	activated sludge of a predominantly domestic sewage	Study report (1991)	OECD Guideline 209
106-23-0	citronellal						
	Acute fish toxicity	LC50	(22) mg/l	96 h	Leuciscus idus	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	(6,74)	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	(8,7)	48 h	Daphnia magna	ECHA Dossier	
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene						
	Acute fish toxicity	LC50 mg/l	0,72	96 h	Pimephales promelas	ECHA Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	0,32	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	0,307	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
	Acute bacteria toxicity	(EC50 mg/l)	209	3 h		ECHA Dossier	
5392-40-5	citral						
	Acute fish toxicity	LC50 mg/l	6,78	96 h	Leuciscus idus	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	103,8	72 h	esmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50	6,8 mg/l	48 h	Daphnia magna	ECHA Dossier	
	Acute bacteria toxicity	(EC50 mg/l)	160	0,5 h	Activated sludge	ECHA Dossier	

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12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
34590-94-8	(2-methoxymethylethoxy)propanol			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	>60%	28	ECHA dossier
	Readily biodegradable (according to OECD criteria).			
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.			
32210-23-4	4-tert-Butylcyclohexyl acetate			
	EU Method C.4-C	75%	29	ECHA Dossier
	Product is partially biodegradable.			
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)			
106-23-0	citronellal			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	83%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene			
	OECD 301D / EEC 92/69 annex V, C.4-E	80 %	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
5392-40-5	citral			
	EU Method C.4-D	90%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
34590-94-8	(2-methoxymethylethoxy)propanol	0,0043
115-95-7	linalyl acetate	3,9
32210-23-4	4-tert-Butylcyclohexyl acetate	4,8
78-70-6	linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	2,9
106-23-0	citronellal	3,62
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene	4,38
5392-40-5	citral	2,76

BCF

CAS No	Chemical name	BCF	Species	Source
5989-27-5	(R)-p-mentha-1,8-diene; d-limonene	864,8	no data	ECHA Dossier

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

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

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

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12.6. Endocrine disrupting properties

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

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

12.7. Other adverse effects

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

070104 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; other organic solvents, washing liquids and mother liquors; hazardous waste

List of Wastes Code - used product

070104 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; other organic solvents, 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)

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

Inland waterways transport (ADN)

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

Marine transport (IMDG)

- | | |
|--|--|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |

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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, Entry 75

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

Safety Data Sheet according to UK-REACH Regulation

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:

(2-methoxymethylethoxy)propanol

linalyl acetate

4-tert-Butylcyclohexyl acetate

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

Neryl acetate

citronellal

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

SECTION 16: Other information

Changes

Rev. 1.0; Initial release: 30.03.2022

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)

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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
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	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.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H400 Very toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

Further Information

Classification according to GHS [UK CLP] - Classification procedure:
 Health hazards: Calculation method.
 Environmental hazards: Calculation method.

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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.)