


Shake Austria e.U.	<b>SICHERHEITSDATENBLATT / MATERIAL SAFETY DATA SHEET</b>
	SHAKE LUFTERFRISCHER AUTO ZEN / SHAKE AIR FRESHENER CAR ZEN

<b>SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING</b>		
<b>1.1.</b>	<b>Product identifier</b>	
	Trade name:	SHAKE LUFTERFRISCHER AUTO ZEN / SHAKE AIR FRESHENER CAR ZEN
	Chemical name:	No data available
	Catalogue number:	No data available
<b>1.2.</b>	<b>Relevant identified uses of the substance or mixture and uses advised against</b>	
	Using:	Air freshener for cars and other indoor areas. Take the bottle with your fingers through the hole on the wood unscrews the top part and take off the plastic cap. Return the wooden cover where it belongs and tighten. After that, hang up the "Shake" on desired place (recommendation for car: car mirror), so it can rock (at rocking loosed fragrance are going through the wooden package). Turn on upside down for two seconds. Fragrance intensity can be adapted by the wooden ring on the rope witch can be wrap up or down to set the fragrance.  WARNING: Always hold the bottle upright to avoid possible spillage. Do not mount, adapt or remove the refresher while driving. Please note that the wooden ring is always tightened. In case of shedding the contents immediately wipe. Spattering the contents can damage the surfaces in the car.
	Uses advised against:	No data available
	Reason advised against:	No data available
<b>1.3.</b>	<b>Details of the supplier of the safety data sheet</b>	
	Company name:	Shake Austria e.U.
	Address:	Strass 21, A - 5301 Eugendorf
	Telephone number:	+43 (0) 622 641 007
	e-mail of the person in charge:	welcome@shake.co.at
	National contact:	No data available
<b>1.4.</b>	<b>Emergency telephone number</b>	
	Department of emergency situations telephone number:	144
	Medical information's telephone number:	Tel Vergiftungszentrale Österreich: +43 1 4064343
	Other data's:	No data available

<b>SECTION 2. HAZARD IDENTIFICATION</b>		
<b>2.1.</b>	<b>Classification of the substance or mixture</b>	
<b>2.1.1.</b>	<b>Classification according to Regulation (EC) 1272/2008 [CLP]</b>	
	Hazard class and category code:	Hazard statements:
	Skin Irr. 2	H315
	Skin. Sens. 1	H317
	Eye Irr. 2	H319
	Aquatic Chronic 2	H411

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2.1.2. Additional information's	
No data available	
**Full text of H i EUH statements is available in section 16.	
2.2. Classification elements according to Regulation (EC) 1272/2008 [CLP]	
Product identifier:	SHAKE LUFTERFRISCHER AUTO ZEN / SHAKE AIR FRESHENER CAR ZEN
Identification number:	-
Authorisation number:	-
Hazard pictograms:	
Signal word:	Warning
Hazard statements:	H315 – Causes skin irritation. H317 – May cause an allergic skin reaction. H319 – Causes serious eye irritation. H411 – Toxic to aquatic life with long lasting effects.
Precautionary statements:	P273 – Avoid release to the environment. P280 – Wear protective gloves/protective clothing/eye protection/face protection. P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention. P337 + P313 – If eye irritation persists: Get medical advice/attention. P391 – Collect spillage. P501 – Dispose of contents/container to relevant information's
Additional information's on hazards:	Contain linalool. EUH 208 Contain eucalyptol, nerol, alpha-Pinene, 2,4-Dimethylcyclohex-3-ene-1-carbaldehyde, trans anethole, beta-pinene, citronellol, methyl cedryl ketone, cyclamal, d-limonen, 6-Methoxy dicyclopentadiene carboxaldehyde, hydroxycitronellal, geraniol, benzyl salicylate. May produce an allergic reaction.
2.3. Additional hazards	
The substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH).	

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SECTION 3. COMPOSITION/ INFORMATION ON INGREDIENTS				
CAS/ EINECS/ Index No	REACH registration No	Content %	Name	Classification according to Regulation (EC) No 1272/2008
78-70-6 201-134-4 -	01- 2119474016- 42	$\geq 7 < 10$	linalool	Skin Irr. 2, H315 Skin. Sens. 1B; H317 Eye Irr.; H319
118-58-1 204-262-9 -	01- 2119969442- 31	$\geq 7 < 10$	benzyl salicylate	Skin. Sens. 1; H317 Aquatic chronic,2;H411
115-95-7 204-116-4 -	01- 2119454789- 19	$\geq 3 < 5$	linalyl acetate	Skin Irr. 2, H315 Eye Irr.; H319
1222-05-5 214-946-9 603-212-00-7	01- 2119488227- 29	$\geq 3 < 5$	Galaxolide pure	Aquatic chronic 1;H410 Aquatic Acute 1;H400
60-12-8 200-456-2 -	01- 2119963921- 31	$\geq 3 < 5$	2-phenylethan-1-ol	Acute Tox. 4; H302 Eye Irr.; H319
140-11-4 205-399-7 -	01- 2119638272- 42	$\geq 1 < 3$	benzyl acetate	Aquatic chronic. 3; H412
127-91-3 204-872-5 -	-	$\geq 1 < 3$	beta-pinene	Flam. Liq. 3;H226 Asp. tokx. 1; H304 Skin Irr. 2, H315 Skin. Sens. 1B; H317 Aquatic Acute 1;H400 M=1 Aquatic chronic,1; H410 M=1
18479-58-8 242-362-4 -	01- 2119457274- 37	$\geq 1 < 3$	dihydro myrcenol	Skin Irr. 2, H315 Eye Irr.; H319
66068-84-6 266-100-3 -	-	$\geq 1 < 3$	izobornil cyclohexanol	Skin Irr. 2, H315 Aquatic chronic,2;H411
106-22-9 203-375-0 -	01- 2119453995- 23	$\geq 0,5 < 1$	citronellol	Skin Irr. 2, H315 Skin. Sens. 1B; H317 Eye Irr.; H319

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32388-55-9 251-020-3 -	-	$\geq 0,5 < 1$	methyl cedryl ketone	Skin. Sens. 1B; H317 Aquatic Acute 1;H400 M=1 Aquatic chronic,1; H410 M=1
80-54-6 201-289-8 -	01- 2119485965- 18	$\geq 0,5 < 1$	lilial	Acute Tox. 4; H302 Skin Irr. 2, H315 Skin. Sens. 1B; H317 Rep.2; H361f Aquatic chronic,2;H411
103-95-7 203-161-7 -	01- 2119970582- 32	$\geq 0,25 < 0,5$	cyclamal	Skin Irr. 2, H315 Skin. Sens. 1B; H317 Aquatic chronic,2;H411
5989-27-5 227-813-5 601-029-00-7	01- 2119529223- 47	$\geq 0,25 < 0,5$	d-limonen	Flam. Liq. 3; H226 Aspir. Tox 1; H304 Skin Irr. 2, H315 Skin. Sens. 1B; H317 Aquatic chronic 1;H410 Aquatic Acute 1;H400
86803-90-9 429-860-9 -	01- 0000017614- 70	$\geq 0,25 < 0,5$	6-Methoxy dicyclopentadiene carboxaldehyde	Skin. Sens. 1B; H317 Eye Irr.; H319 Aquatic chronic,2;H411
28219-61-6 248-908-8 -	-	$\geq 0,25 < 0,5$	bacdanol	Eye Irr.; H319 Aquatic chronic,1; H410
107-75-5 203-518-7 -	01- 2119973482- 31	$\geq 0,25 < 0,5$	hydroxycitronellal	Skin. Sens. 1B; H317 Eye Irr.; H319
106-24-1 203-377-1 -	01- 2119552430- 49	$\geq 0,5 < 1$	geraniol	Skin Irr. 2, H315 Skin. Sens. 1B; H317 Eye Dam. 1; H318
470-82-6 207-431-5 -	01- 2119967772- 24	$\geq 0,1 < 0,25$	eucalyptol	Flam. Liq. 3;H226 Skin. Sens. 1B; H317
106-25-2 203-378-7 -	-	$\geq 0,1 < 0,25$	nerol	Skin Irr. 2, H315 Skin. Sens. 1B; H317 Eye Irr.; H319
80-56-8 201-291-9 -	-	$\geq 0,1 < 0,25$	alpha-Pinene	Flam. Liq. 3;H226 Asp. Tox. 1; H304 Skin Irr. 2, H315

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				Skin. Sens. 1B; H317 Aquatic Acute 1;H400 M=1 Aquatic chronic,1; H410 M=1
68039-49-6 268-264-1 -	01- 2119982384- 28	$\geq 0,1 < 0,25$	2,4-dimethylcyclohex-3- ene-1-carbaldehyde	Skin Irr. 2, H315 Skin. Sens. 1B; H317 Eye Irr.; H319 Aquatic chronic,3;H412 M=1
4180-23-8 224-052-0 -	-	0,1-0,25	trans-anethole	Derm. Sens. 1B; H317

SECTION 4: FIRST AID MEASURES		
4.1.	Description of first aid measures	
	General information's:	In the case of the occurrence and persistence of symptoms, consult a physician.
	Inhalation:	Remove the victim (move out / take out) from vapour/aerosol exposure to fresh air; and in case of any discomfort immediately seek medical attention.
	Skin contact:	Remove contaminated clothing. Wash skin thoroughly with water and mild soap, and then rinse with plenty of water. In the case of the occurrence and persistence of symptoms of irritation, seek for medical attention. Wash contaminated clothing thoroughly before reuse.
	Eye contact:	Wash hands! In case of contact with eyes, rinse immediately with plenty of water, remove contact lenses (if there are any) and continue to rinse for about 15 minutes. During rinsing keep eyelids widely open and move your eyeball. Immediately seek for Ophthalmologist!
	Ingestion:	Immediately get medical attention! DO NOT induce vomiting.
4.2.	Most important symptoms and effects, both acute and delayed	
	After inhalation:	Symptoms are not expected.
	After skin contact:	There may be redness, itching, rash occurred by sensible person and in prolonged contact.
	After eye contact:	Not likely regard the way of using.
	After ingestion:	Not likely regard the way of using.
4.3.	Immediate medical attention and special treatment needed	
	Show medical staff the material safety data sheet or label/packaging. Specific information for the doctor: Treatment should be symptomatic and supportive.	

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<b>SECTION 5: FIRE-FIGHTING MEASURES</b>	
5.1.	Extinguishing media
	Suitable extinguishing media: Carbon dioxide, water spray
	Unsuitable extinguishing media: High water jet.
5.2.	Special hazards arising from the mixture.
	Hazardous burning product's: During fire at high temperatures harmful and irritating mixtures can be formed: carbon dioxide / carbon monoxide. During fire dangerous smoke can occur. DO NOT inhale that smoke!
5.3.	Advice for firefighters:
	Wear self-contained breathing apparatus (HRN EN 137), protective clothing against fire (HRN EN 469), gloves (HRN EN 659) and boots (HRN A29 ili A30). Wear protective clothing to prevent contact with skin and eyes. Evacuate and isolate danger area. Closed containers exposed to fire or high temperature should be cooled down with dispersed streams of water if it is safe to do. Prevent wastes from extinguishing to enter drains and water reservoirs by building dikes (for example sand). The resulting waste and residues after the fire action should be removed in accordance valid regulations.
5.4.	Additional information's
	No data available.

<b>SECTION 6: ACCIDENTAL RELEASE MEASURES</b>	
6.1.	Personal precautions, protective equipment and emergency procedures
6.1.1.	For non-emergency personal
	Protective equipment: Wear protective personal clothing (section 8.)
	Accident preventing procedures: Make sure that everyone are following recommended procedures for safe handling, storage and transport (see section 7.)
	Procedures in case of accident: Keep unnecessary personnel away. Stop further leaking. Eliminate all ignition, heat and sparking sources if safe to do so. Ensure adequate ventilation. Do not inhale vapours. Avoid contact with skin and eyes.
6.1.2.	For emergency personnel:
	Wear protective clothing recommended in Section 8. Keep unprotected personnel away.
6.2.	Environmental precautions:
	Avoid release containers and chemicals to the environment. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
6.3.	Methods and material for containment and cleaning up
6.3.1.	For boarding, covering, plugging: Prevent from discharging into drains and water courses by building (other materials are aloud too)) barrages and barriers. Ensure adequate ventilation. In case of large spills inform local authority.
6.3.2.	Methods and materials for containment and cleaning up.: Stop the flow of material by covering with absorb material as sawdust, sand or mineral absorbent and place into appropriate containers for disposal (section 13.), rinse residuals with plenty of water.

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6.3.3.	Additional information's:	No data available.
6.4.	Direction on other sections	
	Sections 8. i 13.	

### SECTION 7: HANDLING AND STORAGE

7.1.	Precautions for safe handling	
7.1.1.	Protective measures:	
	Measures to prevent fire:	Eliminate all sources of ignition, sparking and heat – do not smoke.
	Measures for preventing creation of aerosols and dust:	Hold up all instruction for save handling. Use only in a well-ventilated places.
	Environmental precautions:	Closed containers, concrete floor surfaces, covered.
7.1.2.	General advice of hygiene on work place	
	Do not eat, drink or smoke when using this product (on working place). Wash hands thoroughly after handling and before break. Wear protective personal clothing (section 8.) Remove all contaminated clothes and footwear.	
7.2.	Conditions for safe storage, including any incompatibilities	
	Technical measures and storage requirements:	Store on dry, cool (5-25 °C) and good ventilated place, away from sources of heat, sparking, ignition source, direct sunlight. Make sure everyone are following instructions for save handling
	Suitable packaging:	Store only in original, closed-up containers. It is not allowed to displace in any other container.
	Demand for storage area and containers:	Bend in the floor must not be bunched into a sewage.
	Advice how to set out the storage:	Adequate ventilation.
	Other information's on storage terms:	Keep out other materials.
7.3.	Specific end use(s)	
	Recommendations:	No data available.
	Special solutions for the industrial sector:	No data available.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1.	Control parameters			
Substance	CAS No.	Occupational exposure limits (GVI/KGVI)		Biological exposure limits
		ppm	mg/m <sup>3</sup>	
linalool	78-70-6	-	-	-
benzyl salicylate	118-58-1	-	-	-
linalyl acetate	115-95-7	-	-	-

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Galaxolide pure	1222-05-5	-	-	-
2-phenylethan-1-ol	60-12-8	-	-	-
benzyl acetate	140-11-4	-	-	-
beta-pinene	127-91-3	-	-	-
dihydro myrcenol	18479-58-8	-	-	-
izobornil cyclohexanol	66068-84-6	-	-	-
citronellol	106-22-9	-	-	-
methyl cedryl ketone	32388-55-9	-	-	-
Lilial	80-54-6	-	-	-
cyclamal	103-95-7	-	-	-
d-limonen	5989-27-5	-	-	-
6-Methoxy dicyclopentadiene carboxaldehyde	86803-90-9	-	-	-
bacdanol	28219-61-6	-	-	-
hydroxycitronellal	107-75-5	-	-	-
geraniol	106-24-1	-	-	-
eucalyptol	470-82-6	-	-	-
nerol	106-25-2	-	-	-
alpha-Pinene	80-56-8	-	-	-
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6	-	-	-
trans-anethole	4180-23-8	-	-	-

Substance name: -

EC No: -	CAS No: -	-
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**DNEL**

<b>Industrial</b>				
<b>Route of exposure:</b>	<b>Acute local effects</b>	<b>Acute systematic effects</b>	<b>Chronical local effects</b>	<b>Chronical systematic effects</b>
Orally	No data available	No data available	No data available	No data available
Inhalation	No data available	No data available	No data available	No data available
Dermally	No data available	No data available	No data available	No data available

Vital physical parameters: solubility, flammability, corrosion -

**Consumer**



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<b>Route of exposure:</b>	Acute local effects	Acute systematic effects	Chronical local effects	Chronical systematic effects
Orally	No data available	No data available	No data available	No data available
Inhalation	No data available	No data available	No data available	No data available
Dermally	No data available	No data available	No data available	No data available

<b>PNEC</b>	
Protected environmental object	<b>PNEC</b>
Freshwater	No data available
Freshwater sediments	No data available
Seawater	No data available
Seawater sediments	No data available
Nutritional chain	No data available
Sewage treatment plant	No data available
Soil	No data available
Air	No data available

8.2.	<b>Charge of exposure</b>	
8.2.1.	Adequate control appliance,	
	Measures to prevent exposure while recommended handling:	Avoid contact with eyes and skin. Use personal protective clothes as required.
	Structure measures to prevent exposure:	No data available
	Organisation measures to prevent exposure:	No data available
	Technical measures to prevent exposure:	Ensure enough air exchange / transition
8.2.2.	Individual protection measures, such as personal protective equipment	
8.2.2.1.	Eye/face protection:	Under normal operating conditions - not required. Protective goggles with side shields in case of eye contact (HRN EN 166)
8.2.2.2.	Skin protection	
	Hand protection:	By prolonged contact or sensitive person should wear protective rubber gloves-Neoprene gloves or PVC (HRN EN 374) .
	Other body parts protection:	Wear suitable protective cotton clothing with long hose and sleeve. In case of hard working conditions with more quantities of product wear PVC clothing, Viton or rubber (HRN EN 14605).
8.2.2.3.	Respiratory Protection:	Under normal operating conditions respiratory protection equipment is not required. In case working with warm up fragrances it is

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		necessary to provide intensive ventilation and elimination of perspired components.
8.2.2.4.	Heat hazard:	No data available.
8.2.3.	Environment exposure control	
	Measures for prevent exposure to substance/component:	Prevent contact with skin, eyes and clothes. Do not eat, drink or smoke while handling with product. Wash hands after break and after the work is done. Wash contaminated clothes before re-use.
	Structural measures for prevent exposure:	No data available
	Organisational measures for prevent exposure:	Adapt working process to working area requirement and environment requirement.
	Technical measures to prevent exposure:	Closed containers, concrete floor surfaces, cover up, adequate ventilation.

<b>SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES</b>			
9.1.	Information on basic physical and chemical properties		
		<b>Value</b>	<b>Method</b>
	Appearance:	Liquid	No data available
	Colour:	No data available	No data available
	Odour:	characteristic	No data available
	Odour threshold:	No data available	No data available
	pH:	No data available	No data available
	Melting/freezing point:	No data available	No data available
	Initial boiling point and boiling range:	>65°C	No data available
	Flash point:	No data available	No data available
	Evaporation rate:	No data available	No data available
	Flammability (solid, gas):	-	No data available
	Upper / lower flammability or upper / lower explosion limit:	No data available	No data available
	Vapour pressure:	No data available	No data available
	Vapour density:	No data available	No data available
	Relative density:	0,960-1,040	No data available
	Solubility(ies):	No data available	No data available
	Topljivost(i):	No data available	No data available
	Partition coefficient	No data available	No data available

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	(n-octanol/water):		
	Auto-ignition temperature:	No data available	No data available
	Decomposition temperature:	No data available	No data available
	Viscosity:	No data available	No data available
	Explosive properties:	No data available	No data available
	Oxidizing properties:	No data available	No data available
9.2.	Other information's:		
	No data available		

SECTION 10: STABILITY AND REACTIVITY		
10.1.	Reactivity:	No data available.
10.2.	Chemical stability:	Under normal conditions of use and storage, compound is stable.
10.3.	Possibility of hazardous reactions:	No data available
10.4.	Conditions to be avoided:	Under normal conditions of use and storage, compound is stable
10.5.	Incompatible materials:	No data available
10.6.	Hazardous decomposition products	No data available

SECTION 11: TOXICOLOGICAL INFORMATION					
11.1.	Information on toxicological effects				
	Acute toxicity:				
linalool					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> : >2790 mg/kg	No data available	No data available
Dermal:	No data available	rabbit	LD <sub>50</sub> : >5610 mg/kg	No data available	No data available
Inhalation:	No data available	rat	No data available	No data available	No data available
eucalyptol					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> 2480 mg/kg	No data available	No data available
Dermal:	No data available	No data available	LD <sub>50</sub>	No data available	No data available

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Inhalation:	No data available	No data available	No data available	No data available	No data available
Terpineol					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> : 2480 mg/kg	No data available	No data available
Dermal:	No data available	No data available	LD <sub>50</sub>	No data available	No data available
Inhalation:	No data available	No data available	No data available	No data available	No data available
2-phenylethan-1-ol					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> : >1580 mg/kg	No data available	No data available
Dermal:	No data available	rabbit	LD <sub>50</sub> : 2535 mg/kg	No data available	No data available
Inhalation:	No data available	No data available	No data available	No data available	No data available
benzyl acetate					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> : 2490 mg/kg	No data available	No data available
Dermal:	No data available	rabbit	LD <sub>50</sub> : > 5000 mg/kg	No data available	No data available
Inhalation:	No data available	No data available	No data available	No data available	No data available
dihydro myrcenol					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> : >4100 mg/kg	No data available	No data available
Dermal:	No data available	No data available	LD <sub>50</sub>	No data available	No data available
Inhalation:	No data available	No data available	No data available	No data available	No data available
Izobornil cyclohexanol					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> : >5000 mg/kg	No data available	No data available

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Dermal:	No data available	rabbit	LD <sub>50</sub> : >5000 mg/kg	No data available	No data available
Inhalation:	No data available	No data available	No data available	No data available	No data available
Citronellol					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> : >3450 mg/kg	No data available	No data available
Dermal:	No data available	rabbit	LD <sub>50</sub> : >2650 mg/kg	No data available	No data available
Inhalation:	No data available	No data available	LD <sub>50</sub>	No data available	No data available
benzyl salicylate					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> : >2200 mg/kg	No data available	No data available
Dermal:	No data available	No data available	LD <sub>50</sub>	No data available	No data available
Inhalation:	No data available	No data available	No data available	No data available	No data available
cyclamal					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> : >3810 mg/kg	No data available	No data available
Dermal:	No data available	No data available	LD <sub>50</sub>	No data available	No data available
Inhalation:	No data available	No data available	LD <sub>50</sub>	No data available	No data available
alpha-Pinene					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> : >3500 mg/kg	No data available	No data available
Dermal:	No data available	No data available	LD <sub>50</sub>	No data available	No data available
Inhalation:	No data available	No data available	LD <sub>50</sub>	No data available	No data available
hydroxycitronellal					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result

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Oral:	No data available	rat	LD <sub>50</sub> : >6400 mg/kg	No data available	No data available
Dermal:	No data available	rabbit	LD <sub>50</sub> : >2000 mg/kg	No data available	No data available
Inhalation:	No data available	No data available	LD <sub>50</sub>	No data available	No data available

Geraniol					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> : >3600 mg/kg	No data available	No data available
Dermal:	No data available	No data available	LD <sub>50</sub>	No data available	No data available
Inhalation:	No data available	No data available	LD <sub>50</sub>	No data available	No data available

lilial					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> : 1390 mg/kg	No data available	No data available
Dermal:	No data available	rabbit	LD <sub>50</sub> : >2000 mg/kg	No data available	No data available
Inhalation:	No data available	rat	LD <sub>50</sub> : >0,18 mg/l	No data available	No data available

nerol					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> : >4500 mg/kg	No data available	No data available
Dermal:	No data available	No data available	LD <sub>50</sub>	No data available	No data available
Inhalation:	No data available	No data available	LD <sub>50</sub>	No data available	No data available

2,4-dimethylcyclohex-3-ene-1-carbaldehyde					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> : >2500 mg/kg	No data available	No data available
Dermal:	No data available	rabbit	LD <sub>50</sub> : >2500 mg/kg	No data available	No data available
Inhalation:	No data available	No data available	LD <sub>50</sub>	No data available	No data available

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trans-anethole					
Route of exposure:	Method	Organism	Dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>compound</sub>	Time of exposure	Result
Oral:	No data available	rat	LD <sub>50</sub> : >3000 mg/kg	No data available	No data available
Dermal:	No data available	No data available	LD <sub>50</sub>	No data available	No data available
Inhalation:	No data available	No data available	LD <sub>50</sub>	No data available	No data available
STOT-single exposure					
	Specific effect		Exposure organ	Note	
Oral:	No data available		No data available	No data available	
Dermal:	No data available		No data available	No data available	
Inhalation:	No data available		No data available	No data available	
Aspiration hazard:					
No data available.					
Corrosion/irritation:					
Product					
	Exposure duration	Organism	Evaluation	Method	Note
Skin corrosion/irritation:	No data available	No data available	No data available	No data available	Skin irritant
Serious eye damage/irritation:	No data available	No data available	No data available	No data available	Eye irritant
lilial					
	Exposure duration	Organism	Evaluation	Method	Note
Skin corrosion/irritation:	No data available	rabbit	No data available	No data available	Skin irritant
Serious eye damage/irritation:	No data available	rabbit	No data available	No data available	Does not irritate eye
Izobornil cyclohexanol					
	Exposure duration	Organism	Evaluation	Method	Note
Skin corrosion/irritation:	No data available	human	No data available	No data available	Does not irritate the skin
Serious eye damage/irritation:	No data available	No data available	No data available	No data available	No data available

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Sensitisation	
Skin sensitisation:	Product: causes sensitisation Lilial: Does not cause sensitisation; Organ: pig
Respiratory sensitisation:	Lilial: Does not cause sensitisation; Organ: pig

Symptoms related to physical, chemical and toxicological characteristics	
Oral:	No data available
Dermal:	No data available
Inhalation:	No data available
Eye contact:	No data available

Repeated dose toxicity (subacute, sub chronic, chronic)						
	Dose	Exposure duration	Organism	Evaluation	Method	Note
Oral subacute	No data available	No data available	No data available	No data available	No data available	No data available
Skin subacute	No data available	No data available	No data available	No data available	No data available	No data available
Inhalation subacute	No data available	No data available	No data available	No data available	No data available	No data available
Oral sub chronic	No data available	No data available	No data available	No data available	No data available	No data available
Skin sub chronic	No data available	No data available	No data available	No data available	No data available	No data available
Inhalation sub chronic	No data available	No data available	No data available	No data available	No data available	No data available
Oral chronic	No data available	No data available	No data available	No data available	No data available	No data available
Skin chronic	No data available	No data available	No data available	No data available	No data available	No data available
Inhalation chronic	No data available	No data available	No data available	No data available	No data available	No data available

Specific target organ toxicity-repeated exposure (TCOP):			
	Specific effect	Organ exposure	Note
Oral subacute	No data available	No data available	No data available
Skin subacute	No data available	No data available	No data available



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Inhalation subacute	No data available	No data available	No data available
Oral sub chronic	No data available	No data available	No data available
Skin sub chronic	No data available	No data available	No data available
Inhalation sub chronic	No data available	No data available	No data available
Oral chronic	No data available	No data available	No data available
Skin chronic	No data available	No data available	No data available
Inhalation chronic	No data available	No data available	No data available
<b>Carcinogenicity, mutagenicity, reproductive toxicity</b>			
Carcinogenicity:		No data available	
Mutagenicity <i>in-vitro</i> :		No data available	
Germ mutagenicity		No data available	
Mutagenicity <i>in-vivo</i> :		No data available	
Germ cell mutagenicity		No data available	
Reproductive toxicity:		No data available	
Evaluation of CMR qualification:		No data available	
<b>11.2. Practical experience:</b>			
Observations relevant for classification:		No data available	
Other observations:		No data available	
<b>11.3. Common use:</b>			
No data available.			

<b>SECTION 12: ECOLOGICAL INFORMATION</b>						
12.1. Toxicity						
Acute toxicity	Dose	Exposure time	Organism	Method	Evaluation	Note
hydroxycitronellal						
Fish	LC <sub>50</sub>	96 h	No data available	No data available	31.6 mg/L	No data available
Crustacean	EC <sub>50</sub>	48 h	No data available	No data available	410 mg/L	No data available

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Algae	EC <sub>50</sub>	72 h	No data available	No data available	> 123.32 mg/L	No data available
Other organism	-	-	No data available	No data available	No data available	No data available
Linalool						
Acute toxicity	Dose	Exposure time	Organism	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 h	No data available	OECD 203	27,8 mg/l	No data available
Crustacean (Daphnia Magna)	EC <sub>50</sub>	48 h	No data available	OECD 202	59 mg/l	No data available
Algae	EC <sub>50</sub>	96 h	No data available	No data available	88,3 mg/l	No data available
Bacteria	EC50:	-	No data available	No data available	No data available	No data available
benzyl acetate						
Acute toxicity	Dose	Exposure time	Organism	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 h	No data available	No data available	4 mg/L	No data available
Crustacean	EC <sub>50</sub>	48 h	No data available	No data available	-	No data available
Algae	EC <sub>50</sub>	72 h	No data available	No data available	-	No data available
Other organism	-	-	No data available	No data available	No data available	No data available
lilial						
Acute toxicity	Dose	Exposure time	Organism	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 h	No data available	No data available	2,04 mg/l	No data available
Crustacean (Daphnia Magna)	EC <sub>50</sub>	48 h	No data available	No data available	10,7 mg/l	No data available
Algae	EC <sub>50</sub>	72 h	No data available	No data available	29,16 mg/l	No data available
Bacteria	EC50:	16 h	No data available	DIN 38412, part VIII, aerobic	8000 mg/l	No data available
Fungi	EC50:	0,5 h	No data available	DIN EN ISO 8192, aerobic	100 mg/l	No data available



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Bio concentration factor (BCF)						
Value	Organism	Method	Evaluation	Note		
No data available	No data available	No data available	No data available	No data available		
No data available	No data available	No data available	No data available	No data available		
No data available	No data available	No data available	No data available	No data available		
Chronic toxicity to environment						
Value	Dose	Time of exposure	Organism	Method	Evaluation	Note
Chronic fish toxicity	LC <sub>50</sub>	No data available	No data available	No data available	No data available	No data available
Chronic Crustacean toxicity (Daphnia)	EC <sub>50</sub>	No data available	No data available	No data available	No data available	No data available
12.4. Mobility in soil:						
Mobility in environment : -						
Surface tension:						
Value	°C	Concentration	Method	Note		
No data available	No data available	No data available	No data available	No data available		
No data available	No data available	No data available	No data available	No data available		
No data available	No data available	No data available	No data available	No data available		
Adsorption/desorption						
Transport	Henry's constant	log Pow	Perspiration	Method	Note	
Soil-water	No data available	No data available	No data available	No data available	No data available	
Water -air	No data available	No data available	No data available	No data available	No data available	
Soil-air	No data available	No data available	No data available	No data available	No data available	

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12.5.	<b>Results of PBT and vPvB</b>
	No data available
12.6.	<b>Other adverse effects</b>
	Toxic to aquatic life with long lasting effects.
<b>SECTION 13. DISPOSAL CONSIDERATIONS</b>	
13.1.	Waste treatment methods
	Waste must be collected separately and kept on the place-under surveillance-where the unauthorised personal cannot reach it.
13.1.1.	<b>Residual waste / contaminated packaging</b>
	DO NOT leak into the environment and municipal waste. Recycle if possible. Legal persons: Keep track of the amount of waste at the warehouse. When handing over the waste, hand it over to the authorized collector with the accompanying documentation (Attachment Sheet).
13.1.2.	<b>Waste code packaging:</b>
	15 01 01- paper and cardboard packaging 15 01 02- plastic packaging 15 01 03- wooden packaging 15 01 10*- packaging which contains danger products residuals or it is contaminated with dangerous substances
13.1.3.	<b>Waste treatment methods:</b>
	No data available.
13.1.4.	<b>Possibility of spilling into sewage:</b>
	No data available.
13.1.5.	<b>Other recommendations for waste disposal::</b>
	Waste treat method accord to local law regulation demands (see section 13. and .6.)
13.1.6.	<b>Relevant regulations:</b>
	EU directives, regulations and laws
<b>SECTION 14: TRANSPORT DETAILS</b>	
	<b>ADR/RID</b>
UN number:	3082
UN proper shipping name:	Environmentally hazardous substances N.O.S.
Transport hazard class:	9
Packing group:	III
Environmental hazards:	Yes

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Special precautions for user:	Special provision: 274, 335, 375, 601; code restriction tunnel E; Hazardous class: 90
<b>RID</b>	
UN number:	-
UN proper shipping name:	-
Transport hazard class:	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
<b>ADN</b>	
UN number:	-
UN proper shipping name:	-
Transport hazard class:	-
Packing group:	-
Environmental hazards:	-
Special precautions for user:	-
<b>IMDG</b>	
UN number:	3082
UN proper shipping name:	Environmentally hazardous substances N.O.S.
Transport hazard class:	9
Packing group:	III
Environmental hazards:	Yes
Special precautions for user:	EMS: F-A, S-F,
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	-
<b>ICAO-TI/IATA-DGR</b>	
UN number:	3082
UN proper shipping name:	Environmentally hazardous substances N.O.S.
Transport hazard class:	9
Environmental hazards:	III
Special precautions for user:	964; A97, A158, A197; ERG: 9L

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Additional information's:	No data available
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<b>SECTION 15: REGULATORY INFORMATION</b>	
15.1.	Safety, health and environmental regulations/legislation specific for the mixture
	EU directive
	Authorisation or/and usage restrictions
	Authorisations: -
	Restrictions: -
	Other EU directives: EU Directives
	Data's (directive 1999/13/EZ) about emission restrictions perspire organic compounds:
	National directive: -
15.2.	Evaluation of chemical safety
	-

<b>SECTION 16: OTHER INFORMATION</b>	
16.1.	Changes mention: -
16.2.	Abbreviation's:
	<p>ADR- The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)</p> <p>ADN- The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</p> <p>(ADR)CLP- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures</p> <p>CAS – Chemical Abstract Service number</p> <p>CMR- Carcinogenic, mutagenic, repro toxic substances</p> <p>DPD – Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 ... to the classification, packaging and labelling of dangerous preparations.</p> <p>DSD – COUNCIL DIRECTIVE of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (67/548/EEC)</p> <p>EC number – EINECS and ELINCS number</p> <p>IATA – The International Air Transport Association (IATA)</p> <p>ICAO-TI – The technical instructions for save Air traffic of dangerous goods</p> <p>IMDG- The International Maritime traffic of Dangerous Goods (IMDG)</p> <p>LD50- Lethal dose for 50% tested organisms</p> <p>PBT-Persistent, bio accumulative, toxic</p> <p>PNEC(s)- Predicted no-effect concentration</p> <p>RID- transport of dangerous goods by rail</p> <p>vPvB- very persistent, very bio accumulative</p>
16.3.	Key literature and data's source:
	Original MSDS: (CONC. TE VERDE 56291 od 30.01.2017,ver.3) and national law regulative
16.4.	Classification and using classification procedures for compounds according to CLP directive

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CLP Classification		Classification procedure
Skin Irr. 2; H315		According to original manufacturer's MSDS
Skin. Sens. 1; H317		According to original manufacturer's MSDS
Eye Irr. 2; H319		According to original manufacturer's MSDS
Aquatic Chronic 2; H411		According to original manufacturer's MSDS
<b>16.5. Adequately Hazard statements:(number and full text)</b>		
H:	H226 H302 H304 H315 H317 H318 H319 H361f H400 H410 H411 H412 EUH208	Flammable liquid and vapour. May be fatal if swallowed and enters airways. May be fatal if swallowed and enters airways Causes skin irritation. May cause an allergic skin reaction Causes serious eye damage. Causes serious eye irritation. Suspected of damaging fertility Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Contain eucalyptol, nerol, alpha-Pinene, 2,4-Dimethylcyclohex-3-ene-1-carbaldehyde, trans anethole, beta-pinene, citronellol, methyl cedryl ketone, cyclamal, d-limonen, 6-Methoxy dicyclopentadiene carboxaldehyde, hydroxycitronellal, geraniol, benzyl salicylate. May produce an allergic reaction.
16.6.	<b>Advices for practising</b>	-
16.7.	<b>Detail notice:</b>	None
		As we know, information's which are contained in that MSDS matches our present cognition about this product. This product cannot be used in other purposes then those mentioned in MSDS sections. In case mixing with different products it is necessary to check are there any additional hazards. In case this product is used against information's that provides manufacturer, manufacturer has no legal responsibility for those allegations. Always read label and information's on product.

**ATTACHMENT:  
EXPOSURE SCENARIO IN ACCORDANCE WITH REPORT OF CHEMICAL SAFETY**