


PRESTIGE d.o.o.	<b>M S D S</b>
	SHAKE AIR FRESHENER ZEN

<b>SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING</b>		
1.1.	Product identifier	
	Trade name:	SHAKE AIR FRESHENER ZEN
	Chemical name:	No data available
	Catalogue number:	No data available
1.2.	Relevant identified uses of the substance or mixture and uses advised against	
	Using:	<p>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.</p> <p><b>WARNING:</b> 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.</p>
	Uses advised against:	No data available
	Reason advised against:	No data available
1.3.	Details of the supplier of the safety data sheet	
	Company name:	PRESTIGE d.o.o.
	Address:	Zadvorska 39, 10257 Brezovica-Zagreb, Croatia
	Telephone number:	+385(0)1-6272-739
	Fax number:	+385(0)75-522-984
	e-mail of the person in charge:	info@shake.hr
	National contact:	No data available
1.4.	Emergency telephone number	
	Department of emergency situations telephone number:	112
	Medical information's telephone number:	01-23-48-342
	Other data's:	No data available

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

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	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 AIR FRESHENER 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).	

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	>= 7 -< 10	linalool	Skin Irr. 2, H315 Skin. Sens. 1B; H317 Eye Irr.; H319

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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
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-	$\geq 0,25 < 0,5$	cyclamal	Skin Irr. 2, H315 Skin. Sens. 1B; H317

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-	32			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 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. Senz. 1B; H317

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<b>SECTION 4: FIRST AID MEASURES</b>											
4.1.	Description of first aid measures										
	<table border="1"> <tr> <td style="width: 30%;">General information's:</td> <td>In the case of the occurrence and persistence of symptoms, consult a physician.</td> </tr> <tr> <td>Inhalation:</td> <td>Remove the victim (move out / take out) from vapour/aerosol exposure to fresh air; and in case of any discomfort immediately seek medical attention.</td> </tr> <tr> <td>Skin contact:</td> <td>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.</td> </tr> <tr> <td>Eye contact:</td> <td>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!</td> </tr> <tr> <td>Ingestion:</td> <td>Immediately get medical attention! DO NOT induce vomiting.</td> </tr> </table>	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.
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Ingestion:	Immediately get medical attention! DO NOT induce vomiting.										
4.2.	Most important symptoms and effects, both acute and delayed										
	<table border="1"> <tr> <td style="width: 30%;">After inhalation:</td> <td>Symptoms are not expected.</td> </tr> <tr> <td>After skin contact:</td> <td>There may be redness, itching, rash occurred by sensible person and in prolonged contact.</td> </tr> <tr> <td>After eye contact:</td> <td>Not likely regard the way of using.</td> </tr> <tr> <td>After ingestion:</td> <td>Not likely regard the way of using.</td> </tr> </table>	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.		
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.										

<b>SECTION 5: FIRE-FIGHTING MEASURES</b>					
5.1.	Extinguishing media				
	<table border="1"> <tr> <td style="width: 30%;">Suitable extinguishing media:</td> <td>Carbon dioxide, water spray</td> </tr> <tr> <td>Unsuitable extinguishing media:</td> <td>High water jet.</td> </tr> </table>	Suitable extinguishing media:	Carbon dioxide, water spray	Unsuitable extinguishing media:	High water jet.
Suitable extinguishing media:	Carbon dioxide, water spray				
Unsuitable extinguishing media:	High water jet.				
5.2.	Special hazards arising from the mixture.				
	<table border="1"> <tr> <td style="width: 30%;">Hazardous burning product's:</td> <td>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!</td> </tr> </table>	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!		
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				

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	resulting waste and residues after the fire action should be removed in accordance valid regulations.
5.4.	<b>Additional information's</b>
	No data available.

<b>SECTION 6: ACCIDENTAL RELEASE MEASURES</b>	
6.1.	<b>Personal precautions, protective equipment and emergency procedures</b>
6.1.1.	<b>For non-emergency personal</b>
	Protective equipment: Wear protective personal clothing (section 8.)
	Accident preventing procedures: Make sure that everyone are following recommended procedures for save 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.	<b>For emergency personnel:</b>
	Wear protective clothing recommended in Section 8. Keep unprotected personnel away.
6.2.	<b>Environmental precautions:</b>
	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.	<b>Methods and material for containment and cleaning up</b>
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.
6.3.3.	Additional information's: No data available.
6.4.	<b>Direction on other sections</b>
	Sections 8. i 13.

<b>SECTION 7: HANDLING AND STORAGE</b>	
7.1.	<b>Precautions for safe handling</b>
7.1.1.	<b>Protective measures:</b>
	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.

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7.1.2.	<b>General advice of hygiene on work place</b>	
	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.	<b>Conditions for safe storage, including any incompatibilities</b>	
	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.	<b>Specific end use(s)</b>	
	Recommendations:	No data available.
	Special solutions for the industrial sector:	No data available.

<b>SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION</b>				
8.1.	<b>Control parameters</b>			
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	-	-	-
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	-	-	-

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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: -

**DNEL**

**Industrial**

Route of exposure:	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

Vital physical parameters: solubility, flammability, corrosion -

**Consumer**

Route of exposure:	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

**PNEC**

Protected environmental object	PNEC
Freshwater	No data available
Freshwater sediments	No data available
Seawater	No data available
Seawater sediments	No data available
Nutritional chain	No data available



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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 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		
		Value	Method
	Appearance:	Liquid	No data available
	Colour:	No data available	No data available

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	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 (n-octanol/water):	No data available	No data available
	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		

<b>SECTION 10: STABILITY AND REACTIVITY</b>			
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	

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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
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

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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
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	No data available	No data available	No data

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		available			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
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

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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
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					

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	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	
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	No data	No data	No data	No data available	No data	No data

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subacute	available	available	available		available	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

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Specific target organ toxicity-repeated exposure (TCOP):						
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	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
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

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

SECTION 12: ECOLOGICAL INFORMATION						
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
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

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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
Cronic toxicity	Dose	Exposure time	Organism	Method	Evaluation	Note
Fish	NOEC	1440 h	No data available	No data available	No data available	No data available
Crustacean (Daphnia)	NOEC	504 h	No data available	No data available	No data available	No data available
Crustacean (Daphnia)	NOEC	96 h	No data available	No data available	No data available	No data available
Algae	NOEC	96 h	No data available	No data available	No data available	No data available
Other organism	-	-	No data available	No data available	No data available	No data available
12.2. Persistence and degradability						
Abiotic degradability						
	Time of half degradation	Method	Evaluation	Note		
Sea water	No data available	No data available	No data available	No data available		
Fresh water	No data available	No data available	No data available	No data available		
Air	No data available	No data available	No data available	No data available		
Soil	No data available	No data available	No data available	No data available		
Biodegradability						
% degradation	Time (dates)	Method	Evaluation	Note		
No data	No data	No data available	No data available	No data available		

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available	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

12.3.	<b>Bio accumulative potential</b>					
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	<b>Partition coefficient octanol/water logPow</b>					
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Value	Concentration	pH	°C	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	No data available	No data available	No data available	No data available	No data available	No data available

	<b>Bio concentration factor (BCF)</b>					
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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

	<b>Chronic toxicity to environment</b>					
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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.	<b>Mobility in soil:</b>					
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	Mobility in environment : -					
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	<b>Surface tension:</b>					
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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

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	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
<b>12.5. Results of PBT and vPvB</b>					
No data available					
<b>12.6. Other adverse effects</b>					
Toxic to aquatic life with long lasting effects.					
<b>SECTION 13. DISPOSAL CONSIDERATIONS</b>					
<b>13.1. Waste treatment methods</b>					
Waste must be collected separately and kept on the place-under surveillance-where the unauthorised personal cannot reach it.					
<b>13.1.1. 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).					
<b>13.1.2. 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					
<b>13.1.3. Waste treatment methods:</b>					
No data available.					
<b>13.1.4. Possibility of spilling into sewage:</b>					
No data available.					
<b>13.1.5. Other recommendations for waste disposal::</b>					
Waste treat method accord to local law regulation demands (see section 13. and .6.)					

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13.1.6.	Relevant regulations:	
	EU directives, regulations and laws	
<b>SECTION 14: TRANSPORT DETAILS</b>		
	ADR/RID	
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:	Special provision: 274, 335, 375, 601; code restriction tunnel E; Hazardous class: 90	
	RID	
UN number:	-	
UN proper shipping name:	-	
Transport hazard class:	-	
Packing group:	-	
Environmental hazards:	-	
Special precautions for user:	-	
	ADN	
UN number:	-	
UN proper shipping name:	-	
Transport hazard class:	-	
Packing group:	-	
Environmental hazards:	-	
Special precautions for user:	-	
	IMDG	
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,	

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	-
ICAO-TI/IATA-DGR	
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
Additional information's:	
	No data available

SECTION 15: REGULATORY INFORMATION	
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
	-

SECTION 16: OTHER INFORMATION	
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>

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		<p>IATA – The International Air Transport Association (IATA)          ICAO-TI – The technical instructions for safe Air traffic of dangerous goods          IMDG- The International Maritime traffic of Dangerous Goods (IMDG)          LD50- Lethal dose for 50% tested organisms          PBT-Persistent, bio accumulative, toxic          PNEC(s)- Predicted no-effect concentration          RID- transport of dangerous goods by rail          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	
	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
16.5.	Adequately Hazard statements:(number and full text)	
	H:	<p>H226 Flammable liquid and vapour.          H302 May be fatal if swallowed and enters airways.          H304 May be fatal if swallowed and enters airways          H315 Causes skin irritation.          H317 May cause an allergic skin reaction          H318 Causes serious eye damage.          H319 Causes serious eye irritation.          H361f Suspected of damaging fertility          H400 Very toxic to aquatic life.          H410 Very toxic to aquatic life with long lasting effects.          H411 Toxic to aquatic life with long lasting effects.          H412 Harmful to aquatic life with long lasting effects.          EUH208 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.</p>
16.6.	Advices for practising	-
16.7.	Detail notice:	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**

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