

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Product name ENVIRONMENTAL DIFFUSER - ELIE SAAB

UFI : 2690-30WA-R001-F07X

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

Identified Uses	Industrial	Professional	Consumer
Perfume for environments.	-	-	✓
Uses Advised Against			
Do not use as a perfume per person.			

1.3. Details of the supplier of the safety data sheet

Name CULTI MILANO S.p.A.
Full address Via dell'Aprica, 12
District and Country 20158 Milano (MI)
Italia
Tel. +39 02/49784974
Fax +39 02/49789135

e-mail address of the competent person responsible for the Safety Data Sheet culti@culti.com

1.4. Emergency telephone number

For urgent inquiries refer to

CULTI MILANO S.p.A. +39 02/49784974 (08:00 - 17:00, Italian time zone)
(AT): +43 1 406 43 43, (BE): +32 070/245.245, (BG): +359 2 9154 233, (CY): 1401,
(HR): +385 1-23-48-342,112, (DK): +45 8212 1212, (EE): 16662, 112, (FI): 0800 147
111, 09 471 977, (FR): +33 (0)1 45 42 59 59, (DE): +49 030 - 192 40, +49 0228 - 192 40,
+49 0361 - 730 730, +49 761 - 192 40, +49 0551 - 192 40, +49 06131 - 192 40, +49
06131 - 192 40, (GR): 0030 210 7793777, (IE): +353 01 837 9964, (IS): +354 543 2222,
(LV): 112, +371 67042473, (LI): +43 1 406 43 43, (LT): +370 (5) 236 2052, (LU): (+352)
8002 5500, (MT): 112, (NO): +47 22 59 13 00, (NL): +31 (0)88 755 8000, (PL): 112,
(PT): +351 800 250 250, (GB): 111, (CZ): +420 224 919 293, +420 224 915 402, (RO):
+40 215992300, 021 112, (SK): +421 2 5477 4166, (SI): 112, (ES): + 34 91 562 04 20,
(SE): 112, (CH): 145, (HU): +36-80-20-11-99

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin sensitization, category 1B	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

SECTION 2. Hazards identification ... / >>

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Danger

Hazard statements:

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P370+P378 In case of fire: use carbon dioxide / foam / powder to extinguish.
P102 Keep out of reach of children.
P101 If medical advice is needed, have product container or label at hand.
P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

Contains:

d-LIMONENE
(E)-3-METHYL-5-CYCLOPENTADECEN-1-ONE
 β -PINENE
GERANIOL
CITRAL
[3R-(3 α ,3a β ,6 α ,7 β ,8a α)]-OCTAHYDRO-6-METHOXY-3,6,8-TETRAMETHYL-1H-3a,7-METHANOAZULEN
E
2-ACETOXY-2,3,8,8-TETRAMETHYLOCTAHYDRONAPHTHALENE
LINALYL ACETATE
LINALOOL

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration $\geq$ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
ETHANOL		
INDEX 603-002-00-5	80 $\leq$ x < 100	Flam. Liq. 2 H225, Eye Irrit. 2 H319 Eye Irrit. 2 H319: $\geq$ 50%
EC 200-578-6		
CAS 64-17-5		
REACH Reg. 01-2119457610-43		
d-LIMONENE		
INDEX 601-096-00-2	1 $\leq$ x < 2	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 3 H412
EC 227-813-5		
CAS 5989-27-5		

SECTION 3. Composition/information on ingredients ... / >>

LINALOOL

INDEX 603-235-00-2 $0,5 \leq x < 1$ Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317
 EC 201-134-4
 CAS 78-70-6
 REACH Reg. 01-2119474016-42

LINALYL ACETATE

INDEX $0,5 \leq x < 1$ Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317
 EC 204-116-4
 CAS 115-95-7
 REACH Reg. 01-2119454789-19

(2-METHOXYMETHYLETHOXY)PROPANOL

INDEX $0,5 \leq x < 1$ Substance with a community workplace exposure limit.
 EC 252-104-2
 CAS 34590-94-8
 REACH Reg. 01-2119450011-60

2-ACETOXY-2,3,8,8-TETRAMETHYLOCTAHYDRONAPHTHALENE

INDEX $0,25 \leq x < 0,5$ Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 1 H410 M=1
 EC 915-730-3
 CAS
 REACH Reg. 01-2119489989-04

[3R-(3 α ,3 α ,6 α ,7 β ,8 α)]-OCTAHYDRO-6-METHOXY-3,6,8,8-TETRAMETHYL-1H-3a,7-METHANOAZULENE

INDEX $0,25 \leq x < 0,5$ Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
 EC 267-510-5
 CAS 67874-81-1
 REACH Reg. 01-2120228335-61

CITRAL

INDEX 605-019-00-3 $0,1 \leq x < 0,25$ Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317
 EC 226-394-6
 CAS 5392-40-5
 REACH Reg. 01-2119462829-23

GERANIOL

INDEX 603-241-00-5 $0,1 \leq x < 0,25$ Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317
 EC 203-377-1
 CAS 106-24-1
 REACH Reg. 01-2119552430-49

 β -PINENE

INDEX $0,1 \leq x < 0,25$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
 EC 242-060-2
 CAS 18172-67-3

p-MENTHA-1,4-DIENE

INDEX $0,1 \leq x < 0,25$ Flam. Liq. 3 H226, Repr. 2 H361, Asp. Tox. 1 H304, Aquatic Chronic 2 H411
 EC 202-794-6
 CAS 99-85-4

(E)-3-METHYL-5-CYCLOPENTADECEN-1-ONE

INDEX 606-119-00-X $0,1 \leq x < 0,25$ Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
 EC 429-900-5
 CAS 82356-51-2
 REACH Reg. 01-0000017618-62

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present, if the situation allows you to carry out the operation easily. Wash immediately and abundantly with water for at least 15 minutes, opening the eyelids wide. Consult a doctor immediately.

SKIN: Remove all contaminated clothing immediately. Wash immediately and thoroughly with running water (and soap if possible). Consult a doctor immediately.

INGESTION: Do not induce vomiting unless expressly authorized by your doctor. Do not give anything by mouth if the person is unconscious. If symptoms occur, consult a doctor.

INHALATION: Move the subject to fresh air, away from the accident site. If symptoms occur, consult a doctor.

Rescuer protection

Wear the PPE required as per section 8.

SECTION 4. First aid measures ... / >>**4.2. Most important symptoms and effects, both acute and delayed**

EYES: irritation, tearing and redness.
SKIN: allergic reaction.

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

If eye or skin irritation persists, seek medical attention immediately.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye washing.

SECTION 5. Firefighting measures**5.1. Extinguishing media****SUITABLE EXTINGUISHING EQUIPMENT**

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture**HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters**GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

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ENVIRONMENTAL DIFFUSER - ELIE SAAB			
SECTION 7. Handling and storage			
7.1. Precautions for safe handling			
Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.			
7.2. Conditions for safe storage, including any incompatibilities			
Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.			
7.3. Specific end use(s)			
Refer to the uses identified in section 1.2. For applications other than those described, contact the supplier.			
SECTION 8. Exposure controls/personal protection			
8.1. Control parameters			
Regulatory references:			
BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)	
CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci	
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58	
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019	
ESP	España	Límites de exposición profesional para agentes químicos en España 2023	
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötervishoiu ja tööohutuse nõuded ning töökeskonna keemiliste ohutegurite piinormid [RT I, 21.12.2022, 14]	
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021	
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25	
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία"»	
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről	
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)	
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81	
LTU	Lietuva	Jsakymas dėl lietuvos higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo	
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)	
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255	
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit	
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos	
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy	
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006	

CULTI MILANO S.p.A.

ENVIRONMENTAL DIFFUSER - ELIE SAAB

Revision nr.1

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SECTION 8. Exposure controls/personal protection ... / >>

SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733; 20.10.2023 / 32345.
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2023

GERANIOL

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,011	mg/l
Normal value in marine water	0,001	mg/l
Normal value for fresh water sediment	0,115	mg/kg/d
Normal value for marine water sediment	0,011	mg/kg/d
Normal value for marine water, intermittent release	0,108	mg/l
Normal value of STP microorganisms	0,7	mg/l
Normal value for the terrestrial compartment	0,017	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2 mg/kg bw/d				
Inhalation				3,5 mg/m3				11,8 mg/m3
Skin			1180 µg/cm2	2,5 mg/kg bw/d			11800 µg/cm2	4,2 mg/kg bw/d

LINALYL ACETATE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,011	mg/l
Normal value in marine water	0,001	mg/l
Normal value for fresh water sediment	0,609	mg/kg/d
Normal value for marine water sediment	0,061	mg/kg/d
Normal value for marine water, intermittent release	0,11	mg/l
Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	0,115	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,2 mg/kg bw/d				
Inhalation				0,68 mg/m3			236,2	2,75 mg/m3
Skin	0,236 mg/cm2		0,236 mg/cm2	1,25 mg/kg bw/d	0,236 mg/cm2		0,236 mg/cm2	2,5 mg/kg bw/d

EPY 11.7.1 - SDS 1004.14.7

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ENVIRONMENTAL DIFFUSER - ELIE SAAB										
SECTION 8. Exposure controls/personal protection ... / >>										
β-PINENE										
Predicted no-effect concentration - PNEC										
Normal value in fresh water					1,004	µg/l				
Normal value in marine water					0,1	µg/l				
Normal value for fresh water sediment					0,337	mg/kg/d				
Normal value for marine water sediment					0,034	mg/kg/d				
Normal value for marine water, intermittent release					5,02	µg/l				
Normal value of STP microorganisms					3,26	mg/l				
Normal value for the food chain (secondary poisoning)					13,1	mg/kg				
Normal value for the terrestrial compartment					0,067	mg/kg/d				
Health - Derived no-effect level - DNEL / DMEL										
Route of exposure	Effects on consumers				Effects on workers					
	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic		
	local	systemic	local	systemic	local	systemic	local	systemic		
Oral				0,3						
				mg/kg bw/d						
Inhalation				1				5,69		
				mg/m3				mg/m3		
Skin			27	0,3			54	0,8		
			µg/cm2	mg/kg bw/d			µg/cm2	mg/kg		
								bw/d		

EPY 11.7.1 - SDS 1004.14.7

SECTION 8. Exposure controls/personal protection ... / >>

(2-METHOXYMETHYLETHOXY)PROPANOL

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	308	50			SKIN
TLV	CZE	270	43,74	550	89,1	SKIN
AGW	DEU	310	50	310	50	
MAK	DEU	310	50	310	50	
TLV	DNK	309	50			SKIN E
VLA	ESP	308	50			SKIN
TLV	EST	308	50			SKIN
VLEP	FRA	308	50			SKIN
HTP	FIN	310	50			SKIN
TLV	GRC	600	100	900	150	
AK	HUN	308				
GVI/KGVI	HRV	308	50			SKIN
VLEP	ITA	308	50			SKIN
RD	LTU	308	50	450	75	SKIN
RV	LVA	308	50			SKIN
TLV	NOR	300	50			SKIN
TGG	NLD	300				
VLE	PRT	308	50			SKIN
NDS/NDSch	POL	240		480		SKIN
TLV	ROU	308	50			SKIN
NGV/KGV	SWE	300	50	450 (C)	75 (C)	SKIN
NPEL	SVK	308	50			SKIN
MV	SVN	308	50			SKIN
ESD	TUR	308	50			SKIN
WEL	GBR	308	50			SKIN
OEL	EU	308	50			SKIN
TLV-ACGIH			50			

Predicted no-effect concentration - PNEC		
Normal value in fresh water	19	mg/l
Normal value in marine water	1,9	mg/l
Normal value for fresh water sediment	70,2	mg/kg/d
Normal value for marine water sediment	7,02	mg/kg/d
Normal value for marine water, intermittent release	190	mg/l
Normal value of STP microorganisms	4168	mg/l
Normal value for the terrestrial compartment	2,74	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers			Chronic	Effects on workers			
	Acute	Acute			Acute	Acute	Chronic	Chronic
	local	systemic		local	local	systemic	local	systemic
Oral								
					36			
					mg/kg bw/d			
Inhalation					37,2			308
					mg/m3			mg/m3
Skin					121			283
					mg/kg bw/d			mg/kg bw/d

SECTION 8. Exposure controls/personal protection ... / >>

CITRAL								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH			5					
Predicted no-effect concentration - PNEC								
Normal value in fresh water						0,007	mg/l	
Normal value in marine water						0,001	mg/l	
Normal value for fresh water sediment						0,125	mg/kg/d	
Normal value for marine water sediment						0,013	mg/kg/d	
Normal value for marine water, intermittent release						0,068	mg/l	
Normal value of STP microorganisms						16	mg/l	
Normal value for the terrestrial compartment						0,021	mg/kg/d	
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers			Chronic	Chronic	Effects on workers		
	Acute	Acute	Chronic			Acute	Acute	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				0,6				
Inhalation				mg/kg bw/d				
				2,7				9
				mg/m3				mg/m3
Skin			140	1			140	1,7
			µg/cm2	mg/kg bw/d			µg/cm2	mg/kg
								bw/d

d-LIMONENE								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	28	5	112	20	SKIN		
MAK	DEU	28	5	112	20	SKIN		
VLA	ESP	168	30			SKIN		
HTP	FIN	140	25	280	50			
TLV	NOR	140	25					
MV	SVN	28	5	112	20	SKIN		
Predicted no-effect concentration - PNEC								
Normal value in fresh water						14	µg/l	
Normal value in marine water						1,4	µg/l	
Normal value for fresh water sediment						3,85	mg/kg/d	
Normal value for marine water sediment						0,385	mg/kg/d	
Normal value of STP microorganisms						1,8	mg/l	
Normal value for the food chain (secondary poisoning)						133	mg/kg	
Normal value for the terrestrial compartment						0,763	mg/kg/d	
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers			Chronic local	Chronic systemic	Effects on workers		
	Acute local	Acute systemic	Acute local			Acute systemic	Chronic local	Chronic systemic
Oral				4,8	4,8			
					mg/kg bw/d			
Inhalation				16,6	16,6			66,7
					mg/m3			66,7
Skin				4,8	4,8			9,5
					mg/kg bw/d			9,5
								mg/kg bw/d

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ETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	1000				
TLV	CZE	1000	522	3000	1566	
AGW	DEU	380	200	1520	800	
MAK	DEU	380	200	1520	800	
TLV	DNK	1900	1000			
VLA	ESP			1910	1000	
TLV	EST	1000	500	1900	1000	
VLEP	FRA	1900	1000	9500	5000	
HTP	FIN	1900	1000	2500	1300	
TLV	GRC	1900	1000			
AK	HUN	1900		3800		
GVI/KGVI	HRV	1900	1000			
RD	LTU	1000	500	1900	1000	
RV	LVA	1000				
TLV	NOR	950	500			
TGG	NLD	260		1900		SKIN
NDS/NDSCh	POL	1900				
TLV	ROU	1900	1000	9500	5000	
NGV/KGV	SWE	1000	500	1900 (C)	1000 (C)	
NPEL	SVK	960	500	1920	1000	
MV	SVN	960	500	1920	1000	
ESD	TUR	1900	1000			
WEL	GBR	1920	1000			
TLV-ACGIH				1884	1000	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,96	mg/l
Normal value in marine water	0,79	mg/l
Normal value for fresh water sediment	3,6	mg/kg/d
Normal value for marine water sediment	2,9	mg/kg/d
Normal value for marine water, intermittent release	2,75	mg/l
Normal value of STP microorganisms	580	mg/l
Normal value for the food chain (secondary poisoning)	380	mg/kg
Normal value for the terrestrial compartment	0,63	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic	Chronic	Effects on workers			
	Acute	Acute			Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Inhalation				114				380
				mg/m3				mg/m3

[3R-(3α,3αβ,6α,7β,8αα)]-OCTAHYDRO-6-METHOXY-3,6,8,8-TETRAMETHYL-1H-3a,7-METHANOAZULENE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,43	µg/l
Normal value in marine water	0,043	µg/l
Normal value for fresh water sediment	1,29	mg/kg/d
Normal value for marine water sediment	0,129	mg/kg/d
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,257	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic	Chronic	Effects on workers			
	Acute	Acute			Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral				2,7				
				mg/kg bw/d				
Inhalation				4,7				16,1
				mg/m3				mg/m3
Skin			1220	2,7			2030	4,5
			µg/cm2	mg/kg bw/d			µg/cm2	mg/kg bw/d

EPY 11.7.1 - SDS 1004.14.7

SECTION 8. Exposure controls/personal protection ... / >>

LINALOOL

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,2	mg/l
Normal value in marine water	0,02	mg/l
Normal value for fresh water sediment	2,22	mg/kg/d
Normal value for marine water sediment	0,222	mg/kg/d
Normal value for marine water, intermittent release	2	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	7,8	mg/kg
Normal value for the terrestrial compartment	0,327	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers		Chronic local	Chronic systemic
	Acute local	Acute systemic			Acute local	Acute systemic		
Oral				2,49 mg/kg bw/d				
Inhalation				4,33 mg/m3				24,58 mg/m3
Skin	1,5 mg/cm2		1,5 mg/cm2	1,25 mg/kg bw/d	3 mg/cm2		3 mg/cm2	3,5 mg/kg bw/d

(E)-3-METHYL-5-CYCLOPENTADECEN-1-ONE

Predicted no-effect concentration - PNEC

Normal value in fresh water	2,42	µg/l
Normal value in marine water	0,242	µg/l
Normal value for fresh water sediment	3,66	mg/kg/d
Normal value for marine water sediment	0,37	mg/kg/d
Normal value for marine water, intermittent release	2,2	µg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	111,1	mg/kg
Normal value for the terrestrial compartment	2,34	mg/kg/d

p-MENTHA-1,4-DIENE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,003	mg/l
Normal value for fresh water sediment	0,49	mg/kg/d
Normal value for marine water sediment	0,049	mg/kg/d
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,423	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers		Chronic local	Chronic systemic
	Acute local	Acute systemic			Acute local	Acute systemic		
Oral				0,417 mg/kg bw/d				
Inhalation				0,725 mg/m3				2,939 mg/m3
Skin				0,417 mg/kg bw/d				0,833 mg/kg bw/d

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2-ACETOXY-2,3,8,8-TETRAMETHYLOCTAHYDRONAPHTHALENE

Predicted no-effect concentration - PNEC

Normal value in fresh water	25	µg/l
Normal value in marine water	2,5	µg/l
Normal value for fresh water sediment	3,73	mg/kg/d
Normal value for marine water sediment	0,75	mg/kg/d
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	26,7	mg/kg
Normal value for the terrestrial compartment	2,7	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				3 mg/kg bw/d				
Inhalation				9 mg/m3				30 mg/m3
Skin			380 µg/cm2	17,2 mg/kg bw/d			648 µg/cm2	28,7 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN ISO 16321).

RESPIRATORY PROTECTION

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	colourless	
Odour	perfumed	
Melting point / freezing point	< 0 °C	
Initial boiling point	> 80 °C	

EPY 11.7.1 - SDS 1004.14.7

SECTION 9. Physical and chemical properties ... / >>

Flammability	flammable liquid	
Lower explosive limit	3,5 % (v/v)	Substance:ETHANOL
Upper explosive limit	15 % (v/v)	Substance:ETHANOL
Flash point	< 23 °C	
Auto-ignition temperature	430 °C	Substance:ETHANOL
Decomposition temperature	not available	Reason for missing data:not relevant for the characterization of the product
pH	7	
Kinematic viscosity	not available	Reason for missing data:not relevant for the characterization of the product
Solubility	partially soluble in water	
Partition coefficient: n-octanol/water	not applicable	Reason for missing data:the product is a mixture
Vapour pressure	not available	Reason for missing data:not relevant for the characterization of the product
Density and/or relative density	0,82 - 0,84 g/cm3	
Relative vapour density	not available	Reason for missing data:not relevant for the characterization of the product
Particle characteristics	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	89,09 %
VOC (volatile carbon)	46,52 %

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

(2-METHOXYMETHYLETHOXY)PROPANOL

Forms peroxides with: air.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

(2-METHOXYMETHYLETHOXY)PROPANOL

May react violently with: strong oxidising agents.

ETHANOL

Risk of explosion on contact with: alkaline metals,alkaline oxides,calcium hypochlorite,sulphur monofluoride,acetic anhydride,acids,concentrated hydrogen peroxide,perchlorates,perchloric acid,perchloronitrile,mercury nitrate,nitric acid,silver,silver nitrate,ammonia,silver oxide,ammonia,strong oxidising agents,nitrogen dioxide.May react dangerously with: bromoacetylene,chlorine acetylene,bromine trifluoride,chromium trioxide,chromyl chloride,fluorine,potassium tert-butoxide,lithium hydride,phosphorus trioxide,black platinum,zirconium (IV) chloride,zirconium (IV) iodide.Forms explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

(2-METHOXYMETHYLETHOXY)PROPANOL

Avoid exposure to: sources of heat.Possibility of explosion.

ETHANOL

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

SECTION 10. Stability and reactivity ... / >>

Incompatible with: oxidizing agents.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

The product does not decompose under normal conditions of use and storage.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

The most likely routes of exposure are oral and dermal

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Refer to section 4.2

Interactive effects

None known

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

GERANIOL

LD50 (Dermal):

> 5000 mg/kg

LD50 (Oral):

3600 mg/kg

LINALYL ACETATE

LD50 (Dermal):

> 5000 mg/kg

LD50 (Oral):

> 9000 mg/kg

β-PINENE

LD50 (Dermal):

2000 mg/kg

LD50 (Oral):

3700 mg/kg

(2-METHOXYMETHYLETHOXY)PROPANOL

LD50 (Dermal):

9510 mg/kg OECD 402

LD50 (Oral):

> 5000 mg/kg OECD 401

CITRAL

LD50 (Dermal):

> 2000 mg/kg

LD50 (Oral):

6800 mg/kg

d-LIMONENE

LD50 (Dermal):

> 5000 mg/kg

LD50 (Oral):

> 2000 mg/kg OECD 423

ETHANOL

LD50 (Dermal):

> 15800 mg/kg

LD50 (Oral):

10470 mg/kg OECD 401

LC50 (Inhalation vapours):

116,9 mg/l/4h OECD 403

SECTION 11. Toxicological information ... / >>

[3R-(3 α ,3a β ,6 α ,7 β ,8a α)]-OCTAHYDRO-6-METHOXY-3,6,8,8-TETRAMETHYL-1H-3a,7-METHANOAZULENE

LD50 (Dermal): > 5000 mg/kg OECD 402

LD50 (Oral): > 5000 mg/kg OECD 401

LINALOOL

LD50 (Dermal): 5610 mg/kg OECD 402

LD50 (Oral): 2200 mg/kg OECD 401

(E)-3-METHYL-5-CYCLOPENTADECEN-1-ONE

LD50 (Dermal): > 2000 mg/kg OECD 401

LD50 (Oral): > 2000 mg/kg OECD 401

p-MENTHA-1,4-DIENE

LD50 (Dermal): > 2000 mg/kg OECD 402

LD50 (Oral): > 2000 mg/kg OECD 423

2-ACETOXY-2,3,8,8-TETRAMETHYLOCTAHYDRONAPHTHALENE

LD50 (Dermal): > 5000 mg/kg OECD 402

LD50 (Oral): > 5000 mg/kg OECD 401

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it has negative effects on the aquatic environment.

12.1. Toxicity

SECTION 12. Ecological information ... / >>

GERANIOL

LC50 - for Fish	22 mg/l/96h OECD 203
EC50 - for Crustacea	10,8 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	13,9 mg/l/72h OECD 201
EC10 for Algae / Aquatic Plants	1 mg/l/72h OECD 201

LINALYL ACETATE

LC50 - for Fish	11 mg/l/96h OECD 203
EC50 - for Crustacea	59 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	68 mg/l/72h OECD 201
EC10 for Algae / Aquatic Plants	3,9 mg/l/72h OECD 201

 β -PINENE

LC50 - for Fish	0,502 mg/l/96h QSAR
EC50 - for Crustacea	1,194 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,7 mg/l/72h OECD 201
EC10 for Algae / Aquatic Plants	0,378 mg/l

(2-METHOXYMETHYLETHOXY)PROPANOL

LC50 - for Fish	> 1000 mg/l/96h OECD 203
EC50 - for Crustacea	1919 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	> 969 mg/l/72h OECD 201
EC10 for Algae / Aquatic Plants	969 mg/l/72h OECD 201
Chronic NOEC for Crustacea	0,5 mg/l OECD 211

CITRAL

LC50 - for Fish	6,78 mg/l/96h DIN 38412
EC50 - for Crustacea	6,8 mg/l/48h
EC50 - for Algae / Aquatic Plants	103,8 mg/l/72h DIN 38412
EC10 for Algae / Aquatic Plants	3 mg/l/72h DIN 38412

d-LIMONENE

LC50 - for Fish	0,72 mg/l/96h OECD 203
EC50 - for Crustacea	0,307 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	0,32 mg/l/72h OECD 201
LC10 for Fish	0,37 mg/l/8d OECD 212
EC10 for Crustacea	0,153 mg/l/21d OECD 211
EC10 for Algae / Aquatic Plants	0,174 mg/l/72h OECD 201
Chronic NOEC for Crustacea	0,08 mg/l OECD 211

ETHANOL

LC50 - for Fish	11200 mg/l/96h
EC50 - for Crustacea	857 mg/l/48h
EC50 - for Algae / Aquatic Plants	275 mg/l/72h OECD 201
EC10 for Algae / Aquatic Plants	11,5 mg/l/72h OECD 201
Chronic NOEC for Fish	250 mg/l/5d OECD 212
Chronic NOEC for Crustacea	9,6 mg/l/10d

[3R-(3 α ,3 $\alpha\beta$,6 α ,7 β ,8 α)]-OCTAHYDRO-6-METHOXY-3,6,8,8-TETRAMETHYL-1H-3a,7-METHANOAZULENE

LC50 - for Fish	0,43 mg/l/96h OECD 203
EC50 - for Crustacea	0,48 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	> 1,8 mg/l/72h OECD 201
EC10 for Algae / Aquatic Plants	0,7 mg/l/72h OECD 201
Chronic NOEC for Algae / Aquatic Plants	0,51 mg/l OECD 201

LINALOOL

LC50 - for Fish	27,8 mg/l/96h OECD 203
EC50 - for Crustacea	59 mg/l/48h OECD 202
EC10 for Algae / Aquatic Plants	54,3 mg/l/4d

(E)-3-METHYL-5-CYCLOPENTADECEN-1-ONE

LC50 - for Fish	0,22 mg/l/96h OECD 203
EC50 - for Crustacea	0,39 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	> 0,69 mg/l/72h OECD 201
Chronic NOEC for Fish	0,18 mg/l/28d OECD 212
Chronic NOEC for Crustacea	0,121 mg/l/21d OECD 212

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p-MENTHA-1,4-DIENE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants 2,792 mg/l/96h OECD 203 10,189 mg/l/48h OECD 202 > 10,82 mg/l/72h OECD 201		
2-ACETOXY-2,3,8,8-TETRAMETHYLOCTAHYDRONAPHTHALENE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants EC10 for Crustacea EC10 for Algae / Aquatic Plants Chronic NOEC for Fish 1,3 mg/l/96h OECD 203 1,38 mg/l/48h OECD 202 > 0,73 mg/l/72h OECD 201 0,044 mg/l/21d OECD 211 0,133 mg/l/72h OECD 201 0,16 mg/l/30d OECD 210		
12.2. Persistence and degradability		
GERANIOL Solubility in water Rapidly degradable 100 mg/l 90% / 3d, OECD 301A		
LINALYL ACETATE Solubility in water Rapidly degradable 30 mg/l 76% / 28d, OECD 301F		
β-PINENE Rapidly degradable 76% / 28d OECD 301		
(2-METHOXYMETHYLETHOXY)PROPANOL Rapidly degradable 79% / 28d, OECD 301F		
CITRAL Rapidly degradable >90% / 28d EU C.4-D		
d-LIMONENE Rapidly degradable 71,4% / 28d, OECD 301B		
ETHANOL Solubility in water Rapidly degradable 1000 - 10000 mg/l 84% / 20d		
[3R-(3α,3aβ,6α,7β,8α)]-OCTAHYDRO-6-METHOXY-3,6,8,8-TETRAMETHYL-1H-3a,7-METHANOAZULENE Solubility in water Rapidly degradable 4,3 mg/l 60% / 28d OECD 301D		
LINALOOL Solubility in water Rapidly degradable 1560 mg/l 64% / 28d, OECD 301		
(E)-3-METHYL-5-CYCLOPENTADECEN1-ONE Solubility in water Rapidly degradable 0,69 mg/l 99,9% / 28d, OECD 302A		
p-MENTHA-1,4-DIENE NOT rapidly degradable 27% / 28d		
2-ACETOXY-2,3,8,8-TETRAMETHYLOCTAHYDRONAPHTHALENE Solubility in water NOT rapidly degradable 2,68 mg/l 11% / 28d, OECD 301C		
12.3. Bioaccumulative potential		
GERANIOL Partition coefficient: n-octanol/water 2,6 OECD 117		
LINALYL ACETATE Partition coefficient: n-octanol/water BCF 3,9 OECD 107 174 QSAR		

SECTION 12. Ecological information ... / >>

(2-METHOXYMETHYLETHOXY)PROPANOL

Partition coefficient: n-octanol/water 0,004 OECD 107

ETHANOL

Partition coefficient: n-octanol/water -0,35
BCF 1[3R-(3 α ,3 α ,6 α ,7 β ,8 α)]-OCTAHYDRO-6-METHOXY-3,6,8,8-TETRAMETHYL-1H-3a,7-METHANOAZULENEPartition coefficient: n-octanol/water 5,1 Log Kow OECD 117
BCF 4320 l/kg ww

LINALOOL

Partition coefficient: n-octanol/water 2,9

2-ACETOXY-2,3,8,8-TETRAMETHYLOCTAHYDRONAPHTHALENE

Partition coefficient: n-octanol/water 5,65 Log Kow OECD 117
BCF 391 l/kg ww OECD 305

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 1266

14.2. UN proper shipping name

ADR / RID: PERFUMERY PRODUCTS

IMDG: PERFUMERY PRODUCTS

IATA: PERFUMERY PRODUCTS

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SECTION 14. Transport information ... / >>				
14.3. Transport hazard class(es)				
ADR / RID:	Class: 3	Label: 3		
IMDG:	Class: 3	Label: 3		
IATA:	Class: 3	Label: 3		
14.4. Packing group				
ADR / RID, IMDG, IATA:		II		
14.5. Environmental hazards				
ADR / RID:	NO			
IMDG:	not marine pollutant			
IATA:	NO			
14.6. Special precautions for user				
ADR / RID:	HIN - Kemler: 33	Limited Quantities: 5 lt	Tunnel restriction code: (D/E)	
	Special provision: 163, 640D			
IMDG:	EMS: F-E, S-D	Limited Quantities: 5 lt		
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 364	
	Passengers:	Maximum quantity: 5 L	Packaging instructions: 353	
	Special provision:	A3, A72		
14.7. Maritime transport in bulk according to IMO instruments				
Information not relevant				
SECTION 15. Regulatory information				
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture				
Seveso Category - Directive 2012/18/EU:		P5c		
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006				
Product				
Point	3 - 40			
Contained substance				
Point	75	GERANIOL		
		REACH Reg.: 01-2119552430-49		
Point	75	CITRAL		
		REACH Reg.: 01-2119462829-23		
Point	75	d-LIMONENE		
Point	75	ETHANOL		
		REACH Reg.: 01-2119457610-43		
Point	75	TERT-BUTYL ALCOHOL		
		REACH Reg.: 01-2119444321-51		
Point	75	p-CYMENE		
Point	75	LINALOOL		
		REACH Reg.: 01-2119474016-42		
Point	75	(E)-3-METHYL-5-CYCLOPENTADECEN-1-ONE		
		REACH Reg.: 01-0000017618-62		
Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors				
not applicable				
Substances in Candidate List (Art. 59 REACH)				
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.				

SECTION 15. Regulatory information ... / >>

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Repr. 2	Reproductive toxicity, category 2
Asp. Tox. 1	Aspiration hazard, category 1
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H361	Suspected of damaging fertility or the unborn child.
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level

SECTION 16. Other information ... / >>

- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
24. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.