Safety Data Sheet

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

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

1.1. Product identifier

Product name **ROOMOI Pistachio Pleasure**
UFI : **5SN6-N5TG-200E-1J8K**

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

Intended use **Air fresheners**

Identified Uses	Industrial	Professional	Consumer
Air freshener	-	-	✔

1.3. Details of the supplier of the safety data sheet

Name DREMAR PARFUM INTERNATIONAL srl
Full address Via F.Saverio Correra n.11
District and Country 80135 Napoli (NA)
ITALY

tel. (+39) 081/7590289
fax (+39) 081/7590289

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

1.4. Emergency telephone number

For urgent inquiries refer to tel. (+39) 081/7590289 (office hours)

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.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

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.

H411 Toxic to aquatic life with long lasting effects.

EUH208 Contains: Citronellol, piperonal, hydroxycitronellal, dl-linalool, (R)-P-MENTHA-1,8-DIENE, Linalyl acetate, Coumarin, reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one and 1-(1, 2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one and 1-(1,2,3,5,6,7 ,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one
May produce an allergic reaction.

Precautionary statements:

P501 Dispose of the product / container in accordance with the legislation in force concerning waste treatment.

P102 Keep out of reach of children.

P101 If medical advice is needed, have product container or label at hand.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P264 Wash your hands thoroughly after use.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
ETHANOL		

INDEX 603-002-00-5	74 ≤ x < 78	Flam. Liq. 2 H225, Eye Irrit. 2 H319
EC 200-578-6		Eye Irrit. 2 H319: ≥ 50%
CAS 64-17-5		
REACH Reg. 01-2119457610-43-XXXX		
3-methoxy-3-methylbutan-1-ol		
INDEX -	10,5 ≤ x < 12	Eye Irrit. 2 H319
EC 260-252-4		
CAS 56539-66-3		
REACH Reg. 01-2119976333-33-XXXX		
HHCB		
INDEX 603-212-00-7	1,5 ≤ x < 2	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 214-946-9		
CAS 1222-05-5		
REACH Reg. 01-2119488227-29-XXXX		
reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one and 1-(1,2,3,5,6,7 ,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one		
INDEX -	0,7 ≤ x < 0,8	Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 1 H410 M=1
EC 915-730-3		
CAS 54464-57-2		
REACH Reg. 01-2119489989-04-XXXX		
Coumarin		
INDEX -	0,5 ≤ x < 0,6	Acute Tox. 4 H302, Skin Sens. 1B H317, Aquatic Chronic 3 H412
EC 202-086-7		ATE Oral: 500 mg/kg
CAS 91-64-5		
REACH Reg. 01-2119943756-26-XXXX		
Linalyl acetate		
INDEX -	0,4 ≤ x < 0,45	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-XXXX		
(R)-P-MENTHA-1,8-DIENE		
INDEX 601-096-00-2	0,2 ≤ 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 3 H412
EC 227-813-5		
CAS 5989-27-5		
REACH Reg. 01-2119529223-47-XXXX		
dl-linalool		
INDEX 603-235-00-2	0,2 ≤ x < 0,25	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-		

XXXX **hydroxycitronellal**		
INDEX -	0,2 ≤ x < 0,25	Eye Irrit. 2 H319, Skin Sens. 1B H317
EC 203-518-7		
CAS 107-75-5		
REACH Reg. 01-2119973482-31-XXXX		
piperonal		
INDEX -	0,15 ≤ x < 0,2	Skin Sens. 1B H317
EC 204-409-7		
CAS 120-57-0		
REACH Reg. 01-2119983608-21-XXXX		
Citronellol		
INDEX -	0,15 ≤ x < 0,2	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317
EC 203-375-0		
CAS 106-22-9		
REACH Reg. 01-2119453995-23-XXXX		
(+/-) trans-3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)pent-4-en-2-ol		
INDEX 603-150-00-0	0,1 ≤ x < 0,15	Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 411-580-3		
CAS 107898-54-4		
REACH Reg. 01-0000015895-58-XXXX		
ETHYL ACETATE		
INDEX 607-022-00-5	0 < x < 0,05	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC 205-500-4		
CAS 141-78-6		
REACH Reg. 01-2119475103-46-XXXX		

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

In case of doubt or in the presence of symptoms contact a doctor and show him this document.
In case of more severe symptoms, ask for immediate medical aid.
EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.
INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.
INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is

recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

If eye irritation persists: Get medical advice / attention.

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

Running water for skin and eye wash.

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.

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.

Storage class TRGS 510 (Germany):
3

7.3. Specific end use(s)

Information not available

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 töökeskkonna keemiliste ohutegurite piirnormid [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 HÄLSOVÅRDSMINISTERIETS 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
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
RUS	Россия	ПОСТАНОВЛЕНИЕ от 13 февраля 2018 г. N 25 ОБ УТВЕРЖДЕНИИ ГИГИЕНИЧЕСКИХ НОРМАТИВОВ ГН 2.2.5.3532-18 "ПРЕДЕЛЬНО ДОПУСТИМЫЕ КОНЦЕНТРАЦИИ (ПДК) ВРЕДНЫХ ВЕЩЕСТВ В ВОЗДУХЕ РАБОЧЕЙ ЗОНЫ"
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)
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

HHCB

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,0068	mg/l
Normal value in marine water	0,00044	mg/l
Normal value for fresh water sediment	2	mg/kg/d
Normal value for marine water sediment	0,394	mg/kg/d
Normal value of STP microorganisms	1	mg/l
Normal value for the food chain (secondary poisoning)	20,4	mg/kg
Normal value for the terrestrial compartment	1,5	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,3 mg/kg bw/d				
Inhalation				4 mg/m3				13,5 mg/m3
Skin				22 mg/kg bw/d				36,7 mg/kg bw/d

dl-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

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic 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

(R)-P-MENTHA-1,8-DIENE

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	0,014	mg/l
Normal value in marine water	0,0014	mg/l
Normal value for fresh water sediment	3,85	mg/kg
Normal value for marine water sediment	0,385	mg/kg
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

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		4,8 mg/kg bw/d				
Inhalation	NPI	NPI	NPI	16,6 mg/m3	NEA	NPI	NPI	66,7 mg/m3
Skin	NPI	NPI	NPI	4,8 mg/kg bw/d	NPI	NPI	NPI	9,5 mg/kg bw/d

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				
TLV	NOR	950	500				
TGG	NLD	260		1900		SKIN	
NDS/NDSCh	POL	1900					
TLV	ROU	1900	1000	9500	5000		
ПДК	RUS	1000		2000			п
NGV/KGV	SWE	1000	500	1900 (C)	1000 (C)		
NPEL	SVK	960	500	1920	1000		
MV	SVN	960	500	1920	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)	0,38	mg/kg
Normal value for the terrestrial compartment	0,63	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		87 mg/kg bw/d				
Inhalation	950 mg/m3	NPI	NPI	114 mg/m3	1900 mg/m3	NPI	NPI	380 mg/m3
Skin	NPI	NPI	NPI	206 mg/kg bw/d	NPI	NPI	NPI	343 mg/kg bw/d

ETHYL ACETATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	734	200	1468	400	
TLV	CZE	700	194,6	900	250,2	
AGW	DEU	730	200	1460	400	
MAK	DEU	750	200	1500	400	
TLV	DNK	540	150			
VLA	ESP	734	200	1468	400	
TLV	EST	500	150	1100	300	
VLEP	FRA	1400	400			
HTP	FIN	730	200	1470	400	

TLV	GRC	734	200	1468	400
AK	HUN	734		1468	
GVI/KGVI	HRV	734	200	1468	400
VLEP	ITA	734	200	1468	400
TLV	NOR	734	200		
TGG	NLD	734		1468	
VLE	PRT	734	200	1468	400
NDS/NDSCh	POL	734		1468	
TLV	ROU	400	111	500	139
NGV/KGV	SWE	550	150	1100	300
NPEL	SVK	734	200	1468	400
MV	SVN	1400	400	1400	400
WEL	GBR	734	200	1468	400
OEL	EU	734	200	1468	400
TLV-ACGIH		1441	400		

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,24	mg/l
Normal value in marine water	0,024	mg/l
Normal value for fresh water sediment	1,15	mg/kg/d
Normal value for marine water sediment	0,115	mg/kg/d
Normal value for marine water, intermittent release	1,65	mg/l
Normal value of STP microorganisms	650	mg/l
Normal value for the food chain (secondary poisoning)	200	mg/kg
Normal value for the terrestrial compartment	0,148	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		4,5 mg/kg bw/d				
Inhalation	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3
Skin	NPI	NPI	LOW	37 mg/kg bw/d	LOW	NPI	NPI	63 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

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,2 mg/kg bw/d				

Inhalation				0,68 mg/m3				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

Citronellol

Predicted no-effect concentration - PNEC		
Normal value in fresh water	2,4	ug/l
Normal value in marine water	0,24	ug/l
Normal value for fresh water sediment	25,6	ug/kg/d
Normal value for marine water sediment	2,56	ug/kg/d
Normal value for marine water, intermittent release	0,024	ug/l
Normal value of STP microorganisms	580	mg/l
Normal value for the terrestrial compartment	3,71	ug/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				13,8 mg/kg bw/d				
Inhalation	10 mg/m3		10 mg/m3	47,8 mg/m3	10 mg/m3		10 mg/m3	161,6 mg/m3
Skin	2,95 mg/cm2			196,4 mg/kg bw/d	2,95 mg/cm2			327,4 mg/kg bw/d

piperonal

Predicted no-effect concentration - PNEC		
Normal value in fresh water	2,5	ug/l
Normal value in marine water	250	ng/l
Normal value for fresh water sediment	11,9	ug/i
Normal value for marine water sediment	1,2	ug/l
Normal value of STP microorganisms	10	mg/l

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,25 mg/kg bw/d				
Inhalation				4,3 mg/m3		17,6		17,6 mg/m3
Skin				1,25 mg/kg bw/d				2,5 mg/kg bw/d

Coumarin

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,019	mg/l
Normal value in marine water	0,0019	mg/l
Normal value for fresh water sediment	0,15	mg/kg/d
Normal value for marine water sediment	0,015	mg/kg/d
Normal value for marine water, intermittent release	0,0142	mg/l
Normal value of STP microorganisms	6,4	mg/l
Normal value for the food chain (secondary poisoning)	30,7	mg/kg
Normal value for the terrestrial compartment	0,018	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,39 mg/kg bw/d				
Inhalation	LOW		NPI	1,69 mg/m3			NPI	6,78 mg/m3
Skin	NPI		NPI	0,39 mg/kg bw/d	NPI		NPI	0,79 mg/kg bw/d

3-methoxy-3-methylbutan-1-ol

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,5 mg/kg bw/d				
Inhalation	NPI			40 mg/m3	NPI			80 mg/m3
Skin				3,1 mg/kg bw/d			NPI	6,25 mg/kg bw/d

hydroxycitronellal

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,0316	mg/l
Normal value in marine water	0,00316	mg/l
Normal value for fresh water sediment	0,145	mg/kg/d
Normal value for marine water sediment	0,0145	mg/kg/d
Normal value for marine water, intermittent release	0,316	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,0105	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		1,2 mg/kg bw/d				
Inhalation	NPI	NPI	NPI	2,1 mg/m3	NPI	NPI	NPI	8,7 mg/m3
Skin	NPI	NPI	0,5 mg/cm2	2,5 mg/kg bw/d	NPI	NPI	0,5 mg/cm2	4,9 mg/kg bw/d

(+/-) trans-3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)pent-4-en-2-ol

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,0012	mg/l
Normal value in marine water	0,00012	mg/l
Normal value for fresh water sediment	0,246	mg/kg/d
Normal value for marine water sediment	0,025	mg/kg/d
Normal value for marine water, intermittent release	0,012	mg/l
Normal value for fresh water, intermittent release	0,0012	mg/l
Normal value of STP microorganisms	0,1	mg/l
Normal value for the food chain (secondary poisoning)	222,2	mg/kg
Normal value for the terrestrial compartment	0,048	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic

Oral		NPI		NPI				
Inhalation	NPI	NPI	NPI	NPI	NPI	NPI	NPI	NPI
Skin	LOW	NPI	LOW	NPI	LOW	NPI	LOW	NPI

reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one and 1-(1, 2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one and 1-(1,2,3,5,6,7 ,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,0044	mg/l
Normal value in marine water	0,00044	mg/l
Normal value for fresh water sediment	3,73	mg/kg
Normal value for marine water sediment	0,75	mg/kg
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

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				3 mg/kg bw/d				
Inhalation				9 mg/m3				30 mg/m3
Skin			0,38 mg/cm2	17,2 mg/kg bw/d			0,648 mg/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.

Protect your hands with gloves of the following type:
Material: PVC
The indicated material is a possible choice; other materials can be adequate, depending on the specifications indicated by the manufacturer.
Thickness: 0,3 mm
Glove thickness must be selected based on the minimum required breakthrough time.
Breakthrough time: 2,5 h
Glove resistance depends on various elements, such as temperature and other environmental factors.

Material: Nitrile rubber (NBR)

The indicated material is a possible choice; other materials can be adequate, depending on the specifications indicated by the manufacturer.
Thickness: 0,3 mm
Glove thickness must be selected based on the minimum required breakthrough time.
Breakthrough time: 1 h
Glove resistance depends on various elements, such as temperature and other environmental factors.

Material: Neoprene
The indicated material is a possible choice; other materials can be adequate, depending on the specifications indicated by the manufacturer.
Thickness: 0,3 mm
Glove thickness must be selected based on the minimum required breakthrough time.
Breakthrough time: 3 h
Glove resistance depends on various elements, such as temperature and other environmental factors.

SKIN PROTECTION
Wear category I 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	characteristic	
Melting point / freezing point	-114 °C	Substance:ETHANOL
Initial boiling point	78 °C	Substance:ETHANOL Initial boiling point: 78,2 °C
Flammability	flammable	
Lower explosive limit	3,1 % (v/v)	Substance:ETHANOL Temperature: 9 °C
Upper explosive limit	27,7 % (v/v)	Substance:ETHANOL Temperature: 44 °C
Flash point	< 23 °C	Substance:ETHANOL Flash point: 13 °C
Auto-ignition temperature	400 °C	Substance:ETHANOL
Decomposition temperature	> 700 °C	Substance:ETHANOL
pH	7	Remark:referring to ethanol
Kinematic viscosity	20,5 mm2/s	Remark:referring to ethanol

Solubility	miscible	
Partition coefficient: n-octanol/water	not applicable	Reason for missing data:The product is a blend
Vapour pressure	58 hPa	Substance:ETHANOL Vapour pressure: 45 mmHg
Density and/or relative density	0,86	Remark:referring to ethanol
Relative vapour density	not available	
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

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

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

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

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.

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.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals,hydrides,oleum.May react violently with: fluorine,strong oxidising agents,chlorosulphuric acid,potassium tert-butoxide.Forms explosive mixtures with: air.

10.4. Conditions to avoid

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

ETHANOL

Avoid exposure to: sources of heat,naked flames.

ETHYL ACETATE

Avoid exposure to: light,sources of heat,naked flames.

10.5. Incompatible materials

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

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.

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

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)

HHCB

LD50 (Dermal):	2000 mg/kg rat
LD50 (Oral):	2000 mg/kg rat

dl-linalool

LD50 (Dermal):	5610 mg/kg rabbit
LD50 (Oral):	2200 mg/kg

(R)-P-MENTHA-1,8-DIENE

LD50 (Dermal):	> 5000 mg/kg Rabbit
LD50 (Oral):	2000 mg/kg Rat

ETHANOL
LD50 (Dermal): 17100 mg/kg
LD50 (Oral): > 5000 mg/kg Rat
LC50 (Inhalation vapours): 117 mg/l/4h Rat

ETHYL ACETATE
LD50 (Oral): 4934 mg/kg

Linalyl acetate
LD50 (Dermal): > 5000 mg/kg Rabbit
LD50 (Oral): 9000 mg/kg Rat

Citronellol
LD50 (Dermal): 2650 mg/kg
LD50 (Oral): 3450 mg/kg

piperonal
LD50 (Dermal): 5000 mg/kg
LD50 (Oral): 2700 mg/kg

Coumarin
LD50 (Dermal): > 293 mg/kg rat
LD50 (Oral): > 293 mg/kg rat

3-methoxy-3-methylbutan-1-ol
LD50 (Dermal): > 2000 mg/kg
LD50 (Oral): 4300 mg/kg rat

hydroxycitronellal
LD50 (Dermal): 2000 mg/kg rabbit
LD50 (Oral): 6400 mg/kg rat

(+/-) trans-3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)pent-4-en-2-ol
LD50 (Oral): 5000 mg/kg Rat

reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one and 1-(1, 2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one and 1-(1,2,3,5,6,7 ,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one
LD50 (Dermal): 5000 mg/kg Rat
LD50 (Oral): 5000 mg/kg Rat

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
May produce an allergic reaction.
Contains:
Citronellol
piperonal
hydroxycitronellal
dl-linalool
(R)-P-MENTHA-1,8-DIENE
Linalyl acetate
Coumarin
reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one and 1-(1, 2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one and 1-(1,2,3,5,6,7 ,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one

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 is toxic for aquatic organisms. In the long term, it has negative effects on the aquatic environment.

12.1. Toxicity

HHCB	
LC50 - for Fish	0,95 mg/l/96h
EC50 - for Crustacea	0,194 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,723 mg/l/72h
Chronic NOEC for Fish	0,068 mg/l 36 d
Chronic NOEC for Crustacea	0,111 mg/l 21 d
Chronic NOEC for Algae / Aquatic Plants	0,201 mg/l 72 h
dl-linalool	
LC50 - for Fish	27,8 mg/l/96h
EC50 - for Crustacea	59 mg/l/48h
EC50 - for Algae / Aquatic Plants	88,3 mg/l/72h 96 h
(R)-P-MENTHA-1,8-DIENE	
LC50 - for Fish	0,688 mg/l/96h

EC50 - for Crustacea	0,307 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,214 mg/l/72h
EC10 for Crustacea	0,153 mg/l/28d 21 d
EC10 for Algae / Aquatic Plants	0,149 mg/l/72h
Chronic NOEC for Fish	0,37 mg/l 8 d
Chronic NOEC for Crustacea	0,05 mg/l 21 d
Chronic NOEC for Algae / Aquatic Plants	0,09 mg/l 48 h

ETHANOL

LC50 - for Fish	14,2 mg/l/96h
EC50 - for Crustacea	> 10000 mg/l/48h
EC50 - for Algae / Aquatic Plants	275 mg/l/72h
Chronic NOEC for Fish	250 mg/l 5 d
Chronic NOEC for Crustacea	> 10 mg/l 21 d
Chronic NOEC for Algae / Aquatic Plants	280 mg/l 7 d

ETHYL ACETATE

LC50 - for Fish	230 mg/l/96h
Chronic NOEC for Fish	9,65 mg/l 32 d
Chronic NOEC for Algae / Aquatic Plants	100 mg/l 72 h

Linalyl acetate

LC50 - for Fish	11 mg/l/96h
EC50 - for Crustacea	59 mg/l/48h
EC50 - for Algae / Aquatic Plants	68 mg/l/72h

Citronellol

LC50 - for Fish	14,66 mg/l/96h
EC50 - for Crustacea	17,48 mg/l/48h
EC50 - for Algae / Aquatic Plants	2,4 mg/l/72h

piperonal

LC50 - for Fish	2,5 mg/l/96h
EC50 - for Crustacea	52 mg/l/48h
EC50 - for Algae / Aquatic Plants	31 mg/l/72h

Coumarin

LC50 - for Fish	1,324 mg/l/96h
EC50 - for Crustacea	8,012 mg/l/48h
Chronic NOEC for Fish	0,191 mg/l 30 d
Chronic NOEC for Crustacea	0,5 mg/l 21 d
Chronic NOEC for Algae / Aquatic Plants	0,431 mg/l 72 h

3-methoxy-3-methylbutan-1-ol

LC50 - for Fish	1000 mg/l/96h Oryzias Latipes
EC50 - for Crustacea	1000 mg/l/48h

EC50 - for Algae / Aquatic Plants	100 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	1000 mg/l 72 h
hydroxycitronellal	
LC50 - for Fish	31,6 mg/l/96h
EC50 - for Crustacea	410 mg/l/48h
EC50 - for Algae / Aquatic Plants	123,32 mg/l/72h
(+/-) trans-3,3-dimethyl-5-(2,2,3-trimethyl-cyclopent-3-en-1-yl)pent-4-en-2-ol	
EC50 - for Crustacea	1 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,88 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	0,45 mg/l 72 h
reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one and 1-(1,2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one and 1-(1,2,3,5,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethane-1-one	
LC50 - for Fish	1,3 mg/l/96h
EC50 - for Crustacea	1,38 mg/l/48h
EC50 - for Algae / Aquatic Plants	2,6 mg/l/72h
Chronic NOEC for Fish	0,16 mg/l 30 d
Chronic NOEC for Crustacea	0,028 mg/l 21 d
Chronic NOEC for Algae / Aquatic Plants	2,6 mg/l 72 h

12.2. Persistence and degradability

HHCB	
NOT rapidly degradable	
dl-linalool	
Rapidly degradable (R)-P-MENTHA-1,8-DIENE	
Solubility in water	0,1 - 100 mg/l
Rapidly degradable ETHANOL	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable ETHYL ACETATE	
Solubility in water	> 10000 mg/l
Rapidly degradable Linalyl acetate	
Rapidly degradable Citronellol	
Rapidly degradable Coumarin	
Rapidly degradable 3-methoxy-3-methylbutan-1-ol	
Rapidly degradable reaction mass of 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-	

naphthyl)ethane-1-one and 1-(1,
2,3,4,6,7,8,8a-octahydro-2,3,8,8-tetramethyl-
2-naphthyl)ethane-1-one and 1-(1,2,3,5,6,7
,8,8a-octahydro-2,3,8,8-tetramethyl-2-
naphthyl)ethane-1-one
Rapidly degradable

12.3. Bioaccumulative potential

HHCB	
BCF	1584
dl-linalool	
Partition coefficient: n-octanol/water	2,97 Log Kow
(R)-P-MENTHA-1,8-DIENE	
Partition coefficient: n-octanol/water	4,38
BCF	864,8
ETHANOL	
Partition coefficient: n-octanol/water	-0,35
ETHYL ACETATE	
Partition coefficient: n-octanol/water	0,68
BCF	30
Linalyl acetate	
Partition coefficient: n-octanol/water	3,9 Log Kow
BCF	174
3-methoxy-3-methylbutan-1-ol	
BCF	3,16

12.4. Mobility in soil

HHCB	
Partition coefficient: soil/water	14300 l/kg
(R)-P-MENTHA-1,8-DIENE	
Partition coefficient: soil/water	6324 l/kg
Linalyl acetate	
Partition coefficient: soil/water	432,4 l/kg
3-methoxy-3-methylbutan-1-ol	
Partition coefficient: soil/water	2,66 l/kg

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 ≥ 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.
The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.
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

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:	Environmentally Hazardous
IMDG:	Marine Pollutant
IATA:	NO



For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

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-E2

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

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%.

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
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, 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
STOT SE 3	Specific target organ toxicity - single exposure, category 3
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.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.

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
- 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

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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
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13. Regulation (EU) 2017/776 (X Atp. CLP)
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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)
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26. Delegated Regulation (UE) 2024/197 (XXI 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.