

70888 - DEO MATIC RICARICA LAVANDA E ORCHIDEA AIR FLOR

Safety Data Sheet

According to Annex II to REACH - Regulation 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

Code: 70888
Product name: DEO MATIC RICARICA LAVANDA E ORCHIDEA AIR FLOR
UFI : PH7A-U19U-W20T-FS02

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

Identified Uses	Industrial	Professional	Consumer
Room deodorant	-	-	✓

Uses Advised Against

Do not use for uses other than those indicated

1.3. Details of the supplier of the safety data sheet

Name: BERGEN S.r.l.
Full address: VIA ROMA, 90
District and Country: 37060 CASTEL D'AZZANO (VR)
Italia
Tel. +39 045512090
www.bergen.it

e-mail address of the competent person
responsible for the Safety Data Sheet

info@bergen.it**1.4. Emergency telephone number**

For urgent inquiries refer to emergency number: 112

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:

Aerosol, category 1	H222 H229	Extremely flammable aerosol. Pressurised container: may burst if heated.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin sensitization, category 1B	H317	May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.

2.2. Label elements

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

Hazard pictograms:



Signal words:

Danger

Hazard statements:

H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
P501	Dispose of contents / container in accordance with current regulations.
P211	Do not spray on an open flame or other ignition source.
P280	Wear protective gloves / eye protection / face protection.
P271	Use only outdoors or in a well-ventilated area.
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

Contains:	LINALYL ACETATE CINEOLE linalool propan-2-ol (R)-P-MENTHA-1,8-DIENE (-)-PIN-2(3)-ENE CARYOPHYLLENE
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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

3.1. Substances

Information not relevant

70888 - DEO MATIC RICARICA LAVANDA E ORCHIDEA AIR FLOR**3.2. Mixtures**

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
BUTANE		
CAS 106-97-8	$45 \leq x < 47,5$	Flam. Gas 1A H220, Press. Gas H280, Classification note according to Annex VI to the CLP Regulation: C, U
EC 203-448-7		
INDEX 601-004-00-0		
REACH Reg. 01-2119474691-32		
PROPANE		
CAS 74-98-6	$22,5 \leq x < 24$	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: U
EC 200-827-9		
INDEX 601-003-00-5		
REACH Reg. 01-2119486944-21		
isobutane		
CAS 75-28-5	$16,5 \leq x < 18$	Flam. Gas 1A H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C, U
EC 200-857-2		
INDEX 601-004-00-0		
REACH Reg. 01-2119485395-27		
propan-2-ol		
CAS 67-63-0	$10 \leq x < 11,5$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
EC 200-661-7		
INDEX 603-117-00-0		
REACH Reg. 01-2119457558-25		
linalool		
CAS 78-70-6	$0,45 \leq x < 0,5$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317
EC 201-134-4		
INDEX 603-235-00-2		
REACH Reg. 01-2119474016-42		
LINALYL ACETATE		
CAS 115-95-7	$0,4 \leq x < 0,45$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317
EC 204-116-4		
INDEX -		
REACH Reg. 01-2119454789-19		
BORNAN-2-ONE		
CAS 76-22-2	$0,2 \leq x < 0,25$	Flam. Sol. 2 H228, Acute Tox. 4 H302, Acute Tox. 4 H332, STOT SE 2 H371 LD50 Oral: 1310 , STA Inhalation mists/powders: 1,5 mg/l
EC 200-945-0		
INDEX -		
REACH Reg. 01-2119966156-31		
CINEOLE		
CAS 470-82-6	$0,2 \leq x < 0,25$	Flam. Liq. 3 H226, Skin Sens. 1B H317
EC 207-431-5		

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REACH Reg. 01-2119967772-24

CARYOPHYLLENE

CAS 87-44-5 0,1 ≤ x < 0,15 Asp. Tox. 1 H304, Skin Sens. 1 H317

EC 201-746-1

INDEX -

p-cymeneCAS 99-87-6 0 ≤ x < 0,05 Flam. Liq. 3 H226, Acute Tox. 3 H331, Asp. Tox. 1 H304, Aquatic Chronic 2 H411
STA Inhalation mists/powders: 0,501 mg/l

EC 202-796-7

INDEX 601-094-00-1

REACH Reg. 01-2119881770-31

(-)-PIN-2(3)-ENECAS 7785-26-4 0 ≤ x < 0,05 Flam. Liq. 3 H226, Acute Tox. 4 H302, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
LD50 Oral: >500

EC 232-077-3

INDEX -

REACH Reg. 01-2119979519-16

P-MENTHA-1,4-DIENE

CAS 99-85-4 0 ≤ x < 0,05 Flam. Liq. 3 H226, Repr. 2 H361, Asp. Tox. 1 H304, Aquatic Chronic 2 H411

EC 202-794-6

INDEX -

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

CAS 5989-27-5 0 ≤ x < 0,05 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, Classification note according to Annex VI to the CLP Regulation: C

EC 227-813-5

INDEX 601-029-00-7

REACH Reg. 01-2119529223-47

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

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 87,96 %

SECTION 4. First aid measures**4.1. Description of first aid measures**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

70888 - DEO MATIC RICARICA LAVANDA E ORCHIDEA AIR FLOR**4.3. Indication of any immediate medical attention and special treatment needed**

Information not available

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

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. 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.

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**

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. 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**

BERGEN S.r.l.	Revision nr. 4
	Dated 16/06/2023
	Printed on 16/06/2023
	6/26
70888 - DEO MATIC RICARICA LAVANDA E ORCHIDEA AIR FLOR	
Replaced revision:3 (Dated: 21/04/2022)	

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

Storage class TRGS 510 (Germany):
2B

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 č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
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 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
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 rendelethe a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
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
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
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 TLV-ACGIH	EH40/2005 Workplace exposure limits (Fourth Edition 2020) ACGIH 2021

BUTANE

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	1900				
AGW	DEU	2400	1000	9600	4000	
MAK	DEU	2400	1000	9600	4000	
TLV	DNK	1200	500			
VLA	ESP	1000		Gases		
VLEP	FRA	1900	800			
HTP	FIN	1900	800	2400	1000	
TLV	GRC	2350	1000			
AK	HUN	2350	9400			
GVI/KGVI	HRV	1450	600	1810	750	
TLV	NOR	600	250			
TGG	NLD	1430				
NDS/NDSch	POL	1900	3000			
MV	SVN	2400	1000	9600	4000	
WEL	GBR	1450	600	1810	750	
WEL	GBR	4		RESP		
TLV-ACGIH		1000				

PROPANE

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	1800				
AGW	DEU	1800	1000	7200	4000	
MAK	DEU	1800	1000	7200	4000	
TLV	DNK	1800	1000			
VLA	ESP		1000			
HTP	FIN	1500	800	2000	1100	
TLV	GRC	1800	1000			
TLV	NOR	900	500			
NDS/NDSch	POL	1800				
TLV	ROU	1400	778	1800	1000	
MV	SVN	1800	1000	7200	4000	

isobutane

Threshold Limit Value						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	2400	1000	9600	4000	
MAK	DEU	2400	1000	9600	4000	
HTP	FIN	1900	800	2400	1000	

propan-2-ol								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	980		1225				
TLV	CZE	500	200	1000	400			
AGW	DEU	500	200	1000	400			
MAK	DEU	500	200	1000	400			
TLV	DNK	490	200					
VLA	ESP	500	200	1000	400			
VLEP	FRA			980	400			
TLV	GRC	980	400	1225	500			
AK	HUN	500		1000		SKIN		
GVI/KGVI	HRV	999	400	1250	500			
TLV	NOR	245	100					
TGG	NLD	650						
NDS/NDSch	POL	900		1200		SKIN		
TLV	ROU	200	81	500	203			
NGV/KGV	SWE	350	150	600 (C)	250 (C)			
NPEL	SVK	500	200	1000	400			
MV	SVN	500	200	2000	800			
WEL	GBR	999	400	1250	500			
TLV-ACGIH		492	200	983	400			
Predicted no-effect concentration - PNEC								
Normal value in fresh water				1409	mg/l			
Normal value in marine water				1409	mg/l			
Normal value for fresh water sediment				552	mg/kg			
Normal value for marine water sediment				552	mg/kg			
Normal value for water, intermittent release				1409	mg/l			
Normal value of STP microorganisms				2251	mg/l			
Normal value for the food chain (secondary poisoning)				160	mg/kg			
Normal value for the terrestrial compartment				28	mg/kg			
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		51 mg/kg bw/d		26 mg/kg bw/d				
Inhalation		178 mg/m3		89 mg/m3		1000 mg/m3		500 mg/m3
Skin				319 mg/kg bw/d				888 mg/kg bw/d
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
Normal value for marine water sediment	0,222	mg/kg
Normal value for 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 food
Normal value for the terrestrial compartment	0,327	mg/kg

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		1,2 mg/kg bw/d		0,2 mg/kg bw/d				
Inhalation		4,1 mg/m3		0,7 mg/m3		16,5 mg/m3		2,8 mg/m3
Skin	1,5 mg/cm2	2,5 mg/kg bw/d	1,5 mg/cm2	1,25 mg/kg bw/d	3 mg/cm2	5 mg/kg bw/d	3 mg/cm²	2,5 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		
Normal value for marine water sediment				0,061		mg/kg		
Normal value for water, intermittent release				0,11		mg/l		
Normal value of STP microorganisms				10		mg/l		
Normal value for the terrestrial compartment				0,115		mg/kg		
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	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	8 mg/cm2		8 mg/cm2	1,25 mg/kg bw/d			8 mg/cm2	2,5 mg/kg bw/d

CINEOLE								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,057		mg/l		
Normal value in marine water				0,0057		mg/l		
Normal value for fresh water sediment				1,425		mg/kg		
Normal value for marine water sediment				0,142		mg/kg		
Normal value for water, intermittent release				0,57		mg/l		
Normal value of STP microorganisms				10		mg/l		
Normal value for the food chain (secondary poisoning)				40		mg/kg		
Normal value for the terrestrial compartment				0,25		mg/kg		
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic

Normal value for marine water sediment				0,152	mg/kg/d			
Normal value for water, intermittent release				0,021	mg/l			
Normal value of STP microorganisms				10	mg/l			
Normal value for the food chain (secondary poisoning)				VND				
Normal value for the terrestrial compartment				0,302	mg/kg/d			
Normal value for the atmosphere				NPI				
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		0,125 mg/kg bw/d
Inhalation	NPI	NPI	NPI	0,22 mg/m3	NPI	NPI	NPI	0,88 mg/m3
Skin	NPI	NPI	NPI	0,125 mg/kg bw/d	NPI	NPI	NPI	0,25 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	110	20	220	40			
MAK	DEU	28	5	112	20	SKIN		
HTP	FIN	140	25	280	50			
TLV	NOR	140	25					
NGV/KGV	SWE		25		50			
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/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 food			
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				4,8 mg/kg bw/d				
Inhalation				16,6 mg/m3				66,7 mg/m3
Skin				4,8 mg/kg bw/d				9,5 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
None required.

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.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).
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. The protection provided by masks is in any case limited.

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

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	aerosol	
Colour	yellow	
Odour	characteristic	Method:internal
Melting point / freezing point	-159 °C	Method:not specified Remark:propellant
Initial boiling point	-16 °C	Method:not specified Remark:propellant
Flammability	extremely flammable aerosol	Method:BGPF12
Lower explosive limit	1,4 % (v/v)	Method:Not specified Remark:propellant Temperature: 20 °C
Upper explosive limit	11,2 % (v/v)	Method:Not specified Remark:propellant Temperature: 20 °C
Flash point	not available	Reason for missing data:It does not apply to gas, aerosols and solids
Auto-ignition temperature	470 °C	Method:not specified Remark:propellant
Decomposition temperature	not available	Reason for missing data:It only applies to authoritative substances and mixtures, organic peroxides and other substances and mixtures that

pH	not available	they can decompose Reason for missing data:substance/mixture is a gas
Kinematic viscosity	not available	Reason for missing data:substance/mixture is a gas
Solubility	not available	Reason for missing data:substance/mixture is a gas
Partition coefficient: n-octanol/water	2,79	Method:not specified Remark:propellant Temperature: 20 °C
Vapour pressure	3,2 Bar	Method:not specified Remark:propellant Temperature: 20 °C
Density and/or relative density	0,81 g/cm3	Method:internal Remark:liquid phase Temperature: 20 °C
Relative vapour density	>1	Method:not specified Remark:propellant Temperature: 20 °C
Particle characteristics		
Method:	It only applies to solids	
Size distribution		
Method:	It only applies to solids	
Dustiness		
Method:	It only applies to solids	
Specific surface area		
Method:	It only applies to solids	
Shape		
Method:	It only applies to solids	

9.2. Other information		
9.2.1. Information with regard to physical hazard classes		
Information not available		
9.2.2. Other safety characteristics		
Explosive properties	Lower propelled explosion limit: 1.4 %	Method:internal
Oxidising properties	No oxidizing property	Method:internal

SECTION 10. Stability and reactivity

10.1. Reactivity
There are no particular risks of reaction with other substances in normal conditions of use.
10.2. Chemical stability
The product is stable in normal conditions of use and storage.

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No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

Avoid overheating.

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

10.6. Hazardous decomposition products

Information not available

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

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

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ATE (Inhalation - mists / powders) of the mixture: > 5 mg/l
ATE (Oral) of the mixture: Not classified (no significant component)
ATE (Dermal) of the mixture: Not classified (no significant component)

BUTANE

LC50 (Inhalation gas): 1443 mg/l

isobutane

LC50 (Inhalation gas): 1443 mg/l

propan-2-ol

LD50 (Dermal): 13900 mg/kg bw Rat
LD50 (Oral): 5840 mg/kg Rat
LC50 (Inhalation vapours): 25 mg/l/4h Rat

linalool

LD50 (Dermal): 5610 mg/kg rabbit
LD50 (Oral): 2200 mg/kg mouse
LC50 (Inhalation vapours): > 3,2 mg/l 90 min mouse

LINALYL ACETATE

LD50 (Dermal): > 5000 mg/kg rabbit
LD50 (Oral): > 9000 mg/kg rat

CINEOLE

LD50 (Dermal): > 2 g/kg rat
LD50 (Oral): 4,3 g/kg rat

BORNAN-2-ONE

LD50 (Oral): 1310 mg/kg mouse

(-)-PIN-2(3)-ENE

LD50 (Dermal): > 2000 mg/kg rat
LD50 (Oral): > 500 mg/kg rat

p-cymene

LD50 (Dermal): 5000 mg/kg
LD50 (Oral): 4750 mg/kg
LC50 (Inhalation vapours): 3 mg/l
STA (Inhalation mists/powders): 0,501 mg/l
(figure used for calculation of the acute toxicity estimate of the mixture)

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

LD50 (Dermal): > 5000 mg/kg bw rabbit

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LD50 (Oral): > 2000 mg/kg bw 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

Sensitising for the skin

Respiratory sensitization

Information not available

Skin sensitization

Information not available

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

Adverse effects on sexual function and fertility

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Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

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Information not available

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

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity**BUTANE**

LC50 - for Fish	24,11 mg/l/96h
EC50 - for Crustacea	7,02 mg/l/48h
EC50 - for Algae / Aquatic Plants	7,71 mg/l/72h

LINALYL ACETATE

LC50 - for Fish	11 mg/l/96h
EC50 - for Crustacea	15 mg/l/48h
EC50 - for Algae / Aquatic Plants	62 mg/l/72h
Chronic NOEC for Fish	10 mg/l
Chronic NOEC for Crustacea	10 mg/l
Chronic NOEC for Algae / Aquatic Plants	9,6 mg/l

CINEOLE

LC50 - for Fish	57 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	74 mg/l/72h
Chronic NOEC for Fish	32 mg/l Oncorhynchus mykiss
Chronic NOEC for Crustacea	100 mg/l Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	9,1 mg/l

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

LC50 - for Fish	35 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	0,307 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	0,214 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Algae / Aquatic Plants	0,174 mg/l Pseudokirchneriella subcapitata

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propan-2-ol

LC50 - for Fish 9640 mg/l/96h

EC50 - for Crustacea > 100 mg/l/48h

PROPANE

LC50 - for Fish 24,11 mg/l/96h

EC50 - for Crustacea 7,02 mg/l/96h

EC50 - for Algae / Aquatic Plants 7,71 mg/l/72h

isobutane

LC50 - for Fish 24,11 mg/l/96h

EC50 - for Algae / Aquatic Plants 7,71 mg/l/72h

BORNAN-2-ONE

LC50 - for Fish > 35 mg/l/96h

EC50 - for Crustacea 9,303 mg/l/48h

EC50 - for Algae / Aquatic Plants 6,951 mg/l/72h

(-)-PIN-2(3)-ENE

LC50 - for Fish 0,303 mg/l/96h

EC50 - for Crustacea 0,475 mg/l/48h

EC50 - for Algae / Aquatic Plants 0,31 mg/l/72h

Chronic NOEC for Algae / Aquatic Plants 0,131 mg/l 48h

linalool

LC50 - for Fish 27,8 mg/l/96h *Oncorhynchus mykiss*EC50 - for Crustacea 59 mg/l/48h *Daphnia magna*EC50 - for Algae / Aquatic Plants 88,3 mg/l/72h *Desmodesmus subspicatus*Chronic NOEC for Fish < 3,5 mg/l *Oncorhynchus mykiss*

p-cymene

LC50 - for Fish 4,8 mg/l/96h

EC50 - for Crustacea 3,7 mg/l/48h

EC50 - for Algae / Aquatic Plants 4,03 mg/l/72h

EC10 for Algae / Aquatic Plants 1,4 mg/l/72h

Chronic NOEC for Fish 10 mg/l

Chronic NOEC for Crustacea 2,3 mg/l

12.2. Persistence and degradability

BUTANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

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LINALYL ACETATE	
Rapidly degradable	
CINEOLE	
Rapidly degradable	
(R)-P-MENTHA-1,8-DIENE	
Solubility in water	0,1 - 100 mg/l
Rapidly degradable	
propan-2-ol	
Rapidly degradable	
PROPANE	
Solubility in water	0,1 - 100 mg/l
Rapidly degradable	
BORNAN-2-ONE	
Rapidly degradable	
(-)-PIN-2(3)-ENE	
Rapidly degradable	
linalool	
Rapidly degradable	

12.3. Bioaccumulative potential

BUTANE	
Partition coefficient: n-octanol/water	1,09
LINALYL ACETATE	
BCF	173,9 l/kg
CINEOLE	
BCF	155 l/kg
(R)-P-MENTHA-1,8-DIENE	
Partition coefficient: n-octanol/water	4,38
BCF	360,5 L/kg wet/wet (acquatic species)
propan-2-ol	
Partition coefficient: n-octanol/water	0,05
PROPANE	
Partition coefficient: n-octanol/water	1,09

12.4. Mobility in soil

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LINALYL ACETATE	
Partition coefficient: soil/water	2,71
CINEOLE	
Partition coefficient: soil/water	2,33
(R)-P-MENTHA-1,8-DIENE	
Partition coefficient: soil/water	3,383
BORNAN-2-ONE	
Partition coefficient: soil/water	2,068

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: 1950

14.2. UN proper shipping name

ADR / RID: AEROSOLS
IMDG: AEROSOLS

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IATA: AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR / RID: Class: 2 Label: 2.1

IMDG: Class: 2 Label: 2.1

IATA: Class: 2 Label: 2.1

**14.4. Packing group**

ADR / RID, IMDG, IATA: -

14.5. Environmental hazards

ADR / RID: NO

IMDG: NO

IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: --

Limited
Quantities: 1
LTunnel
restriction
code: (D)

Special provision: -

IMDG: EMS: F-D, S-U

Limited
Quantities: 1
L

IATA: Cargo:

Maximum
quantity: 150
KgPackaging
instructions:
203

Pass.:

Maximum
quantity: 75
KgPackaging
instructions:
203

Special provision:

A145, A167,
A802**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: P3a

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

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Point 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 $\geq$ 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.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 1: Low hazard to waters

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. Gas 1A Flammable gas, category 1A**Aerosol 1** Aerosol, category 1

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Aerosol 3	Aerosol, category 3
Flam. Liq. 2	Flammable liquid, category 2
Flam. Sol. 2	Flammable solid, category 2
Press. Gas	Pressurised gas
Press. Gas (Liq.)	Liquefied gas
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 3	Acute toxicity, 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
STOT SE 2	Specific target organ toxicity - single exposure, category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H225	Highly flammable liquid and vapour.
H228	Flammable solid.
H280	Contains gas under pressure; may burst if heated.
H361	Suspected of damaging fertility or the unborn child.
H331	Toxic if inhaled.
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.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic 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

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- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- 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 as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
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- The Merck Index. - 10th Edition
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- IFA GESTIS website
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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.

22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)

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