

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: 71322
Product name: DEO AMBIENTE FRUTTI D'ACQUA
UFI : 748Q-F1VR-620M-AC12

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: BERGEN S.r.l.
+39 045512090
(08.30 - 17.30)

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 1	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

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:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P337+P313	If eye irritation persists: Get medical advice / attention.
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.

Contains:	Orange, sweet, ext. ETHYL 2,3-EPOXY-3-PHENYLBUTYRATE propan-2-ol CITRAL LINALOOL LINALYL ACETATE TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES
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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

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	$15 \leq x < 16,5$	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		
BENZYL BENZOATE		
CAS 120-51-4	$0,1 \leq x < 0,15$	Acute Tox. 4 H302, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411 STA Oral: 500 mg/kg
EC 204-402-9		
INDEX 607-085-00-9		
REACH Reg. 01-2119976371-33		
Orange, sweet, ext.		
CAS 8028-48-6	$0,1 \leq x < 0,15$	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC 232-433-8		
INDEX -		
REACH Reg. 01-2119493353-35		
ETHYL 2,3-EPOXY-3-PHENYLBUTYRATE		
CAS 77-83-8	$0,1 \leq x < 0,15$	Skin Sens. 1B H317, Aquatic Chronic 2 H411
EC 201-061-8		
INDEX -		
REACH Reg. 01-2119967770-28		
TETRAMETHYL ACETYLOCTAHYDRONAPHTHALE		

NES
CAS 54464-57-2 $0,05 \leq x < 0,1$ Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 1 H410 M=1

EC 259-174-3

INDEX -

REACH Reg. 01-2119489989-04

LINALYL ACETATE

CAS 115-95-7 $0 \leq x < 0,05$ Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317

EC 204-116-4

INDEX -

REACH Reg. 01-2119454789-19

LINALOOL

CAS 78-70-6 $0 \leq x < 0,05$ 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

CITRAL

CAS 5392-40-5 $0 \leq x < 0,05$ Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 226-394-6

INDEX 605-019-00-3

REACH Reg. 01-2119462829-23

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: 85,96 %

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.

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**

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

ETHYL 2,3-EPOXY-3-PHENYLBUTYRATE					
Predicted no-effect concentration - PNEC					
Normal value in fresh water				0,008	mg/l
Normal value in marine water				8,4	µg/L
Normal value for fresh water sediment				0,214	mg/kg
Normal value for marine water sediment				0,021	mg/kg
Normal value of STP microorganisms				10	mg/l
Normal value for the food chain (secondary poisoning)				23,3	mg/kg
Normal value for the terrestrial compartment				0,038	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				0,35 mg/kg bw/d				
Inhalation				0,61 mg/m3				2,45 mg/m3
Skin				0,35 mg/kg bw/d				0,7 mg/kg bw/d

Orange, sweet, ext.								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,0054	mg/l			
Normal value in marine water				0,00054	mg/l			
Normal value for fresh water sediment				1,3	mg/kg			
Normal value for marine water sediment				0,13	mg/kg			
Normal value for water, intermittent release				0,00577	mg/l			
Normal value of STP microorganisms				2,1	mg/l			
Normal value for the terrestrial compartment				0,261	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								4,44 mg/kg bw/d
Inhalation				7,78 mg/m3				31,1 mg/m3
Skin				4,44 mg/kg bw/d				8,89 mg/kg bw/d

BENZYL BENZOATE								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,017	mg/l			
Normal value in marine water				0,002	mg/l			
Normal value for fresh water sediment				10,66	mg/kg			
Normal value for marine water sediment				1,07	mg/kg			
Normal value of STP microorganisms				100	mg/l			
Normal value for the terrestrial compartment				2,12	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		78 mg/kg bw/d		0,4 mg/kg bw/d				
Inhalation		25 mg/m3		1,25 mg/m3		102 mg/m3		5,1 mg/m3
Skin				1,3 mg/kg bw/d				2,6 mg/kg bw/d

TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				2,8	µg/l			
Normal value in marine water				0,28	µg/l			
Normal value for fresh water sediment				3,73	mg/kg			
Normal value for marine water sediment				0,75	mg/kg			

BERGEN S.r.l.					Revision nr. 3 Dated 22/06/2023			
71322 - DEO AMBIENTE FRUTTI D'ACQUA					Printed on 22/06/2023 10/25 Replaced revision:2 (Dated: 20/05/2022)			
Normal value of STP microorganisms		10		mg/l				
Normal value for the food chain (secondary poisoning)		10		mg/kg				
Normal value for the terrestrial compartment		2,7		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				1,25 mg/kg bw/d				
Inhalation				2,16 mg/m3				7,33 mg/m3
Skin			0,38 mg/cm2	2,15 mg/kg bw/d			0,648 mg/cm2	3,6 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								
	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	8 mg/cm2	8 mg/cm2		1,25 mg/kg bw/d	8 mg/cm2		2,5 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								
	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	1,2 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

CITRAL								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,007	mg/l			
Normal value in marine water				0,001	mg/l			
Normal value for fresh water sediment				0,125	mg/kg			
Normal value for marine water sediment				0,013	mg/kg			
Normal value for water, intermittent release				0,068	mg/l			
Normal value of STP microorganisms				1,6	mg/l			
Normal value for the terrestrial compartment				0,021	mg/kg			
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers			Chronic systemic	Effects on workers			Chronic systemic
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	
Oral				0,6 mg/kg bw/d				
Inhalation				2,7 mg/m3				9 mg/m3
Skin			0,14 mg/cm2	1 mg/kg bw/d			0,14 mg/cm2	1,7 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
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:internal Remark:propellant
Initial boiling point	-16 °C	Method:internal Remark:propellant
Flammability	extremely flammable aerosol	Method:BGPF 12
Lower explosive limit	1,4 % (v/v)	Method:Not specified Remark:propellant
Upper explosive limit	11,2 % (v/v)	Method:Not specified Remark:propellant
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 they can decompose
pH	not available	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:not determined
Partition coefficient: n-octanol/water	2,79	Method:not specified Remark:propellant
Vapour pressure	da 2,5 a 3,2 bar	Method:not specified Remark:propellant Temperature: 20 °C
Density and/or relative density	0,81 g/cm3	Method:internal
Relative vapour density	not available	Reason for missing data:not determined
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.

10.3. Possibility of hazardous reactions

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 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

71322 - DEO AMBIENTE FRUTTI D'ACQUA

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)

BUTANE

LC50 (Inhalation gas):	1443 mg/l
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isobutane

LC50 (Inhalation gas):	1443 mg/l
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propan-2-ol

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

ETHYL 2,3-EPOXY-3-PHENYLBUTYRATE

LD50 (Dermal):	> 2000 mg/kg dw
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Orange, sweet, ext.

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

BENZYL BENZOATE

LD50 (Dermal):	> 2 ml/kg Rabbit
LD50 (Oral):	> 2000 mg/kg Rat

TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES

71322 - DEO AMBIENTE FRUTTI D'ACQUA

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

LINALYL ACETATE

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

LINALOOL

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

CITRAL

LD50 (Dermal): > 2000 mg/kg rat
LD50 (Oral): 1424 mg/kg mouse

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

BERGEN S.r.l.	Revision nr. 3 Dated 22/06/2023
71322 - DEO AMBIENTE FRUTTI D'ACQUA	Printed on 22/06/2023 16/25 Replaced revision:2 (Dated: 20/05/2022)

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

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

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

71322 - DEO AMBIENTE FRUTTI D'ACQUA

BENZYL BENZOATE

LC50 - for Fish	2,32 mg/l/96h
EC50 - for Crustacea	3,09 mg/l/48h
EC50 - for Algae / Aquatic Plants	0,311 mg/l/72h
Chronic NOEC for Fish	0,168 mg/l
Chronic NOEC for Crustacea	0,97 mg/l

CITRAL

LC50 - for Fish	6,78 mg/l/96h
EC50 - for Crustacea	6,8 mg/l/48h
EC50 - for Algae / Aquatic Plants	103,8 mg/l/72h
Chronic NOEC for Fish	4,6 mg/l

TETRAMETHYL

ACETYLOCTAHYDRONAPHTHALENES

EC50 - for Crustacea	1,32 mg/l/48h
EC50 - for Algae / Aquatic Plants	2,6 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	0,028 mg/l

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

ETHYL 2,3-EPOXY-3-PHENYLBUTYRATE

LC50 - for Fish	4,2 mg/l/96h
EC50 - for Crustacea	52 mg/l/48h
EC50 - for Algae / Aquatic Plants	42 mg/l/72h

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

Orange, sweet, ext.

BERGEN S.r.l.		Revision nr. 3
71322 - DEO AMBIENTE FRUTTI D'ACQUA		Dated 22/06/2023
		Printed on 22/06/2023
		19/25
		Replaced revision:2 (Dated: 20/05/2022)
LC50 - for Fish		
		5,65 mg/l/96h
EC50 - for Crustacea		
		1,1 mg/l/48h
EC50 - for Algae / Aquatic Plants		
		150 mg/l/72h
12.2. Persistence and degradability		
BUTANE		
Solubility in water		0,1 - 100 mg/l
Rapidly degradable		
LINALYL ACETATE		
Rapidly degradable		
BENZYL BENZOATE		
Rapidly degradable		
CITRAL		
Rapidly degradable		
TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES		
NOT rapidly degradable		
propan-2-ol		
Rapidly degradable		
PROPANE		
Solubility in water		0,1 - 100 mg/l
Rapidly degradable		
ETHYL 2,3-EPOXY-3-PHENYLBUTYRATE		
NOT rapidly degradable		
LINALOOL		
Rapidly degradable		
12.3. Bioaccumulative potential		
BUTANE		
Partition coefficient: n-octanol/water		1,09
LINALYL ACETATE		
BCF		173,9 l/kg
BENZYL BENZOATE		
BCF		193,4

CITRAL	
BCF	89,72

TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES	
BCF	391

propan-2-ol	
Partition coefficient: n-octanol/water	0,05

PROPANE	
Partition coefficient: n-octanol/water	1,09

12.4. Mobility in soil

LINALYL ACETATE	
Partition coefficient: soil/water	2,71

BENZYL BENZOATE	
Partition coefficient: soil/water	3,08

CITRAL	
Partition coefficient: soil/water	2,169

TETRAMETHYL ACETYLOCTAHYDRONAPHTHALENES	
Partition coefficient: soil/water	4,12

ETHYL 2,3-EPOXY-3-PHENYLBUTYRATE	
Partition coefficient: soil/water	2,34

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

BERGEN S.r.l.	Revision nr. 3
	Dated 22/06/2023
	Printed on 22/06/2023
	21/25
71322 - DEO AMBIENTE FRUTTI D'ACQUA	
Replaced revision:2 (Dated: 20/05/2022)	

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
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 L	Tunnel restriction code: (D)
IMDG:	Special provision: - EMS: F-D, S-U	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 150	Packaging instructions:

BERGEN S.r.l.	Revision nr. 3
	Dated 22/06/2023
	Printed on 22/06/2023
	22/25
71322 - DEO AMBIENTE FRUTTI D'ACQUA	Replaced revision:2 (Dated: 20/05/2022)

Pass.:	Kg	203
	Maximum	Packaging
	quantity: 75	instructions:
Special provision:	Kg	203
	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

Product	
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 2: 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
Aerosol 3	Aerosol, category 3
Flam. Liq. 2	Flammable liquid, category 2
Press. Gas	Pressurised gas
Press. Gas (Liq.)	Liquefied gas
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
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
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may burst if heated.
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.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number

71322 - DEO AMBIENTE FRUTTI D'ACQUA

- 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 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

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
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- 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.

BERGEN S.r.l.	Revision nr. 3 Dated 22/06/2023
71322 - DEO AMBIENTE FRUTTI D'ACQUA	Printed on 22/06/2023 25/25 Replaced revision:2 (Dated: 20/05/2022)

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.

Changes to previous review:

The following sections were modified:

02 / 03 / 08 / 09 / 11 / 12 / 16.