Safety Data Sheet

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

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

1.1. Product identifier

Product name **ENVIRONMENTAL DIFFUSER - LAMBORGHINI TURBO NOIR**

UFI : **2S80-K0FC-600J-49AM**

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

Identified Uses	Industrial	Professional	Consumer
Perfume for environments.	-	-	✓

Uses Advised Against

Do not use as a perfume per person.

1.3. Details of the supplier of the safety data sheet

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

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

1.4. Emergency telephone number

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

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Eye irritation, category 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

SECTION 2. Hazards identification ... / >>

2.2. Label elements

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

Hazard pictograms:

Signal words: Danger

Hazard statements:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains: 7-HYDROXYCITRONELLAL (ETHOXYMETHOXY)CYCLODODECANE 4-TERT-BUTYLCYCLOHEXYL ACETATE May produce an allergic reaction.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P370+P378	In case of fire: use carbon dioxide / foam / powder to extinguish.
P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P233	Keep container tightly closed.

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

3.2. Mixtures

Contains:

Identification		**x = Conc. %**	**Classification (EC) 1272/2008 (CLP)**
ETHANOL			
INDEX	*603-002-00-5*	80 ≤ x < 100	**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*		
(2-METHOXYMETHYLETHOXY)PROPANOL			
INDEX		2,5 ≤ x < 5	**Substance with a community workplace exposure limit.**
EC	*252-104-2*		
CAS	*34590-94-8*		
REACH Reg.	*01-2119450011-60*		
2,2-DIMETHYL-1,3-DIOXOLAN-4-YLMETHANOL			
INDEX		2 ≤ x < 3	**Eye Irrit. 2 H319**
EC	*202-888-7*		
CAS	*100-79-8*		
REACH Reg.	*01-2120066005-66*		

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

4-TERT-BUTYLCYCLOHEXYL ACETATE

INDEX		0,25 ≤ x < 0,5	**Skin Sens. 1B H317**
EC	*250-954-9*		
CAS	*32210-23-4*		
REACH Reg.	*01-2119976286-24*		

(ETHOXYMETHOXY)CYCLODODECANE

INDEX		0,1 ≤ x < 0,25	**Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 2 H411**
EC	*261-332-1*		
CAS	*58567-11-6*		
REACH Reg.	*01-2119971571-34*		

7-HYDROXYCITRONELLAL

INDEX		0,1 ≤ x < 0,25	**Eye Irrit. 2 H319, Skin Sens. 1B H317**
EC	*203-518-7*		
CAS	*107-75-5*		

α-CEDRENE

INDEX		0,025 ≤ x < 0,05	**Asp. Tox. 1 H304, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=10**
EC	*207-418-4*		
CAS	*469-61-4*		

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

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present, if the situation allows you to carry out the operation easily. Wash immediately and abundantly with water for at least 15 minutes, opening the eyelids wide. Consult a doctor immediately.
SKIN: Remove all contaminated clothing immediately. Wash immediately and thoroughly with running water (and soap if possible). Consult a doctor immediately.
INGESTION: Do not induce vomiting unless expressly authorized by your doctor. Do not give anything by mouth if the person is unconscious. If symptoms occur, consult a doctor.
INHALATION: Move the subject to fresh air, away from the accident site. If symptoms occur, consult a doctor.

Rescuer protection

Wear the PPE required as per section 8.

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

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

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

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

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

Running water for skin and eye washing.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.
UNSUITABLE EXTINGUISHING EQUIPMENT
Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Refer to the uses identified in section 1.2. For applications other than those described, contact the supplier.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CZE	Česká Republika	NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur

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

		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
LTU	Lietuva	Jsakymas dėl lietuvos higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733; 20.10.2023 / 32345.
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2023

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

2,2-DIMETHYL-1,3-DIOXOLAN-4-YLMETHANOL

Predicted no-effect concentration - PNEC

Normal value in fresh water	200	µg/l
Normal value in marine water	200	µg/l
Normal value for fresh water sediment	1183,16	µg/kg/d
Normal value for marine water sediment	118,3	µg/kg/d
Normal value for marine water, intermittent release	90	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	2,5	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				5 mg/kg bw/d				
Inhalation				15 mg/m3				60 mg/m3
Skin				5 mg/kg bw/d				10 mg/kg bw/d

7-HYDROXYCITRONELLAL

Predicted no-effect concentration - PNEC

Normal value in fresh water	31,6	µg/l
Normal value in marine water	3,16	µg/l
Normal value for fresh water sediment	0,145	mg/kg/d
Normal value for marine water sediment	0,015	mg/kg/d
Normal value for marine water, intermittent release	316	µg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,011	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				1,2 mg/kg bw/d				
Inhalation				2,1 mg/m3				8,7 mg/m3
Skin			0,5 mg/cm2	2,5 mg/kg bw/d			0,5 mg/cm2	4,9 mg/kg bw/d

4-TERT-BUTYLCYCLOHEXYL ACETATE

Predicted no-effect concentration - PNEC

Normal value in fresh water	9,02	µg/l
Normal value in marine water	0,902	µg/l
Normal value for fresh water sediment	3,57	mg/kg/d
Normal value for marine water sediment	0,357	mg/kg/d
Normal value for marine water, intermittent release	53	µg/l
Normal value for fresh water, intermittent release	5,3	µg/l
Normal value of STP microorganisms	12,2	mg/l
Normal value for the food chain (secondary poisoning)	66,67	mg/kg
Normal value for the terrestrial compartment	0,709	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				0,5 mg/kg bw/d				
Inhalation				0,87 mg/m3				4,93 mg/m3
Skin				0,5 mg/kg bw/d				1,4 mg/kg bw/d

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

(2-METHOXYMETHYLETHOXY)PROPANOL

Threshold Limit Value

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

Predicted no-effect concentration - PNEC

Normal value in fresh water	19	mg/l
Normal value in marine water	1,9	mg/l
Normal value for fresh water sediment	70,2	mg/kg/d
Normal value for marine water sediment	7,02	mg/kg/d
Normal value for marine water, intermittent release	190	mg/l
Normal value of STP microorganisms	4168	mg/l
Normal value for the terrestrial compartment	2,74	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

	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				36 mg/kg bw/d				
Inhalation				37,2 mg/m3				308 mg/m3
Skin				121 mg/kg bw/d				283 mg/kg bw/d

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

(ETHOXYMETHOXY)CYCLODODECANE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,002	mg/l
Normal value for fresh water sediment	2,35	mg/kg/d
Normal value for marine water sediment	0,235	mg/kg/d
Normal value for marine water, intermittent release	0,016	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the food chain (secondary poisoning)	33,3	mg/kg
Normal value for the terrestrial compartment	0,468	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				1,67 mg/kg bw/d				
Inhalation				5,8 mg/m3				23,5 mg/m3
Skin				1,67 mg/kg bw/d				3,3 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			
RD	LTU	1000	500	1900	1000	
RV	LVA	1000				
TLV	NOR	950	500			
TGG	NLD	260		1900		SKIN
NDS/NDSCh	POL	1900				
TLV	ROU	1900	1000	9500	5000	
NGV/KGV	SWE	1000	500	1900 (C)	1000 (C)	
NPEL	SVK	960	500	1920	1000	
MV	SVN	960	500	1920	1000	
ESD	TUR	1900	1000			
WEL	GBR	1920	1000			
TLV-ACGIH				1884	1000	

Predicted no-effect concentration - PNEC

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

Health - Derived no-effect level - DNEL / DMEL

	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
Inhalation				114 mg/m3				380 mg/m3

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.

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

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.
Provide an emergency shower with face and eye wash station.
HAND PROTECTION
Protect hands with category III work gloves.
The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.
SKIN PROTECTION
Wear category 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		not available		
Colour		not available		
Odour		not available		
Melting point / freezing point	<	0	°C	
Initial boiling point	>	80	°C	
Flammability		not available		
Lower explosive limit		3,5	% (v/v)	Substance:ETHANOL
Upper explosive limit		15	% (v/v)	Substance:ETHANOL
Flash point	<	23	°C	
Auto-ignition temperature		430	°C	Substance:ETHANOL
Decomposition temperature		not available		Reason for missing data:not relevant for the characterization of the product
pH		7		
Kinematic viscosity		not available		Reason for missing data:not relevant for the characterization of the product
Solubility		not available		
Partition coefficient: n-octanol/water		not available	LogKow	
Vapour pressure		not available		Reason for missing data:not relevant for the characterization of the product
Density and/or relative density		0,832	g/cm3	
Relative vapour density		not available		Reason for missing data:not relevant for the characterization of the product
Particle characteristics		not applicable		

9.2. Other information

9.2.1. Information with regard to physical hazard classes

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

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	88,89 %	-	739,56	g/litre
VOC (volatile carbon)	46,06 %	-	383,21	g/litre

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

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.

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.

10.5. Incompatible materials

Incompatible with: strong mineral acids, oxidizing agents and aluminium.

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

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

Information on likely routes of exposure

The most likely routes of exposure are oral and dermal

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

Refer to section 4.2

Interactive effects

None known

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	Not classified (no significant component)

SECTION 11. Toxicological information ... / >>

ATE (Dermal) of the mixture: Not classified (no significant component)

2,2-DIMETHYL-1,3-DIOXOLAN-4-YLMETHANOL
LD50 (Dermal): > 2000 mg/kg OECD 402
LD50 (Oral): 7000 mg/kg
LC50 (Inhalation mists/powders): > 5,11 mg/l/4h OECD 403

7-HYDROXYCITRONELLAL
LD50 (Dermal): > 2000 mg/kg
LD50 (Oral): > 6400 mg/kg OECD 401

4-TERT-BUTYLCYCLOHEXYL ACETATE
LD50 (Dermal): > 4680 mg/kg OECD 402
LD50 (Oral): 3370 mg/kg OECD 401

(2-METHOXYMETHYLETHOXY)PROPANOL
LD50 (Dermal): 9510 mg/kg OECD 402
LD50 (Oral): > 5000 mg/kg OECD 401

(ETHOXYMETHOXY)CYCLODODECANE
LD50 (Dermal): > 5000 mg/kg OECD 402
LD50 (Oral): > 5000 mg/kg OECD 401

ETHANOL
LD50 (Dermal): > 15800 mg/kg
LD50 (Oral): 10470 mg/kg OECD 401
LC50 (Inhalation vapours): 116,9 mg/l/4h OECD 403

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:
7-HYDROXYCITRONELLAL
(ETHOXYMETHOXY)CYCLODODECANE
4-TERT-BUTYLCYCLOHEXYL ACETATE

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

SECTION 11. Toxicological information ... / >>

11.2. Information on other hazards

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

SECTION 12. Ecological information

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

12.1. Toxicity

2,2-DIMETHYL-1,3-DIOXOLAN-4-YLMETHANOL	
LC50 - for Fish	16700 mg/l/96h
EC50 - for Crustacea	> 4600 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	15000 mg/l/72h OECD 201
EC10 for Algae / Aquatic Plants	940 mg/l/72h OECD 211
Chronic NOEC for Crustacea	10 mg/l OECD 211

7-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 OECD 201
EC10 for Algae / Aquatic Plants	42,36 mg/l/72h OECD 201

4-TERT-BUTYLCYCLOHEXYL ACETATE	
LC50 - for Fish	8,6 mg/l/96h EU C.1
EC50 - for Crustacea	5,3 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	22 mg/l/72h EU C.3
EC10 for Algae / Aquatic Plants	11 mg/l/72h EU C.3
Chronic NOEC for Fish	0,7 mg/l/30d OECD 210
Chronic NOEC for Crustacea	4,44 mg/l/21d OECD 211

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

(ETHOXYMETHOXY)CYCLODODECANE	
LC50 - for Fish	1,9 mg/l/96h OECD 203
EC50 - for Crustacea	1,6 mg/l/48h OECD 202
EC50 - for Algae / Aquatic Plants	> 2 mg/l/72h OECD 201

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

12.2. Persistence and degradability

2,2-DIMETHYL-1,3-DIOXOLAN-4-YLMETHANOL	
Entirely degradable	25% / 28d, OECD 302B

7-HYDROXYCITRONELLAL	
Rapidly degradable	>80% / 28d, OECD 301F

4-TERT-BUTYLCYCLOHEXYL ACETATE	
Solubility in water	39,6 mg/l
Rapidly degradable	75% / 28d, EU C.4-C

(2-METHOXYMETHYLETHOXY)PROPANOL	
Rapidly degradable	79% / 28d, OECD 301F

SECTION 12. Ecological information ... / >>

(ETHOXYMETHOXY)CYCLODODECANE

Solubility in water	2 mg/l
NOT rapidly degradable	<5% / 28d, OECD 301B

ETHANOL

Solubility in water	1000 - 10000 mg/l
Rapidly degradable	84% / 20d

12.3. Bioaccumulative potential

4-TERT-BUTYLCYCLOHEXYL ACETATE

Partition coefficient: n-octanol/water	4,8 Log Kow OECD 117

ETHANOL

Partition coefficient: n-octanol/water	-0,35
BCF	1

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Waste transportation may be subject to ADR restrictions.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 1266

14.2. UN proper shipping name

ADR / RID:	PERFUMERY PRODUCTS
IMDG:	PERFUMERY PRODUCTS
IATA:	PERFUMERY PRODUCTS

SECTION 14. Transport information ... / >>

14.3. Transport hazard class(es)

ADR / RID:	Class: 3	Label: 3
IMDG:	Class: 3	Label: 3
IATA:	Class: 3	Label: 3

14.4. Packing group

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards

ADR / RID: NO
IMDG: not marine pollutant
IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 33 Special provision: 163, 640D	Limited Quantities: 5 lt	Tunnel restriction code: (D/E)
IMDG:	EMS: F-E, S-D	Limited Quantities: 5 lt	
IATA:	Cargo: Passengers: Special provision:	Maximum quantity: 60 L Maximum quantity: 5 L A3, A72	Packaging instructions: 364 Packaging instructions: 353

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EU: P5c

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

Product
Point 3 - 40

Contained substance

Point	75	d-LIMONENE
Point	75	TETRAHYDRO-2-ISOBUTYL-4-METHYLPYRAN-4-OL, MIXED ISOMERS (CIS AND TRANS) REACH Reg.: 01-0000015458-64
Point	75	ETHANOL REACH Reg.: 01-2119457610-43
Point	75	TERT-BUTYL ALCOHOL REACH Reg.: 01-2119444321-51

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

SECTION 15. Regulatory information ... / >>

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
Asp. Tox. 1	Aspiration hazard, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

SECTION 16. Other information ... / >>

- WGK: Water hazard classes (German).

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

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

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.