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:	**NCFO37443**
Product name	**N°15 LEMONGRASS**
UFI :	**QX62-D0DS-X00F-UHTC**

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

Intended use	**Environment perfume**

1.3. Details of the supplier of the safety data sheet

Name	**MY SENSO SRL**		
Full address	**via J. Kravogl, 5/B**		
District and Country	**39100**	**Bolzano**	**(bz)**
		italia	
	Tel.	**0471053295**	
	Fax	**0471053296**	
e-mail address of the competent person responsible for the Safety Data Sheet	**info@mysenso.it**		

1.4. Emergency telephone number

For urgent inquiries refer to

CENTRI ANTIVELENO:
Bologna - Ospedale Maggiore - tel. 051/6478955
Bergamo - Ospedali Riuniti di Bergamo - 800 883300
Catania - Ospedale Garibaldi Centro Rianimazione - tel. 095/7594120
Cesena - Ospedale Maurizio Bufalini - tel. 0547/352612
Firenze - Azienda Ospedaliera Careggi - 055 7947819
Genova - Ospedale Gaslini - 010/3760873
Lecce - Ospedale Regionale Vito Fazzi - tel. 0832/351105
Messina - Unità degli Studi di Messina - tel. 090/2212451
Milano - Ospedale Niguarda Ca' Grande - tel. 02/66101029
Napoli - Ospedali Riuniti Cardarelli - tel. 081/5453333
Padova - Istituto di Farmacologia Universitaria - tel. 049/931111
Pavia - Fondazione Salvatore Maugeri - 0382 24444
Roma - Policlinico Agostino Gemelli - tel. 06/3054343
Roma - Ospedale Pediatrico Bambino Gesù - tel. 06/68593726
Roma - Policlinico Umberto I - tel 06/49978000
Torino - Università di Torino Via Achille Mario Dogli
Verona - Azienda Ospedaliera Integrata Verona - tel. 800011858

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classification and indication:

Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.

SECTION 2. Hazards identification ... / >>

2.2. Label elements

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

Hazard pictograms:

Signal words: Danger

Hazard statements:

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.

Precautionary statements:

P501	Dispose of contents and container to accord to local, regional, national, international regulations.
P102	Keep out of reach of children.
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.
P101	If medical advice is needed, have product container or label at hand.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P337+P313	If eye irritation persists: Get medical advice / attention.

Contains:
Citral
Orange, Sweet, Ext.
Citronellal
Orange, Sweet, Ext.
Citronellol
Cymbopogon Winterianus, Ext.

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*	78 ≤ x < 82	**Flam. Liq. 2 H225, Eye Irrit. 2 H319**
EC	*200-578-6*		**Eye Irrit. 2 H319: ≥ 50%**
CAS	*64-17-5*		
REACH Reg.	*01-2119457610-43-xxxx*		
Citral			
INDEX		1,5 ≤ x < 2	**Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317**
EC	*226-394-6*		
CAS	*5392-40-5*		
REACH Reg.	*01-2119462829-23-xxxx*		

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

Cymbopogon Winterianus, Ext.
INDEX 0,6 ≤ x < 0,7 **Acute Tox. 4 H302, Asp. Tox. 1 H304, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 2 H411**
EC *294-954-7* **LD50 Oral: >300 mg/kg**
CAS *91771-61-8*
REACH Reg. *01-2120741487-48-XXXX*

Citronellal
INDEX 0,2 ≤ x < 0,25 **Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317**
EC *203-376-6*
CAS *106-23-0*
REACH Reg. *01-2119474900-37-xxxx*

Orange, Sweet, Ext.
INDEX 0,2 ≤ x < 0,25 **Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411**
EC *232-433-8*
CAS *8028-48-6*
REACH Reg. *01-2119493353-35-XXXX*

Citronellol
INDEX 0,2 ≤ x < 0,25 **Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317**
EC *203-375-0* *CAS* *106-22-9*
REACH Reg. *01-2119453995-23-xxxx*

Orange, Sweet, Ext.
INDEX 0,2 ≤ x < 0,25 **Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Chronic 2 H411**
EC *232-433-8*
CAS *8028-48-6*
REACH Reg. *01-2119493353-35-XXXX*

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

SECTION 4. First aid measures

4.1. Description of first aid measures

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
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.

Ethanol
la combustione genererà ossidi di carbonio

SECTION 5. Firefighting measures ... / >>

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)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
	TLV-ACGIH	ACGIH 2021

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

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 of STP microorganisms	1,6	mg/l
Normal value for the terrestrial compartment	0,021	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				0.6 mg/kg				
Inhalation				2.7 mg/m3				9 mg/m3
Skin				1 mg/kg				1.7 mg/kg

Citronellal

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,009	mg/l
Normal value in marine water	0,001	mg/l
Normal value for fresh water sediment	0,159	mg/kg
Normal value for marine water sediment	0,016	mg/kg
Normal value of STP microorganisms	4	mg/l
Normal value for the terrestrial compartment	0,027	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			LOW	0,6 mg/kg bw/d				
Inhalation				2,7 mg/m3				9 mg/m3
Skin	LOW		140 ug/cm2	1 mg/kg bw/d	LOW		140 ug/cm2	1,7 mg/kg bw/d

Ethanol

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLEP	ITA	60		240		SKIN
TLV-ACGIH				1884	1000	SKIN

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 the food chain (secondary poisoning)	0,00072	kg/kg
Normal value for the terrestrial compartment	0,63	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL

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

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

Orange, Sweet, Ext.

Predicted no-effect concentration - PNEC

Normal value in fresh water	5,4	ug/l
Normal value in marine water	0,54	ug/l
Normal value for fresh water sediment	1300	ug/l
Normal value for marine water sediment	130	ug/l
Normal value of STP microorganisms	2,1	mg/l
Normal value for the terrestrial compartment	261	ug/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				
Inhalation				7,78 mg/m3				31,1 mg/m3
Skin				4,44 mg/kg				8,89 mg/kg

Citronellol

Predicted no-effect concentration - PNEC

Normal value in fresh water	2,4	ug/l
Normal value in marine water	0,24	ug/l
Normal value for fresh water sediment	25,6	ug/l
Normal value for marine water sediment	2,56	ug/l
Normal value of STP microorganisms	580	mg/l
Normal value for the terrestrial compartment	3,71	ug/l

Health - Derived no-effect level - DNEL / DMEL

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

Orange, Sweet, Ext.

Predicted no-effect concentration - PNEC

Normal value in fresh water	5,4	ug/l
Normal value in marine water	0,54	ug/l
Normal value for fresh water sediment	1,3	mg/kg
Normal value for marine water sediment	0,13	mg/kg
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	92,9 ug/cm2			4,44 mg/kg bw/d	185,8 ug/cm2		185,8	8,89 mg/kg bw/d

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

Cymbopogon Winterianus, Ext.		
Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,092	ug/l
Normal value in marine water	0,0092	ug/l
Normal value for fresh water sediment	9,111	ug/l
Normal value for marine water sediment	911	ug/l
Normal value of STP microorganisms	0,7	ug/l
Normal value for the terrestrial compartment	1,411	ug/l

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,46 mg/kg				
Inhalation				5,81 mg/m3				2,73 mg/m3
Skin				5,81 mg/kg				9,69 mg/kg

Legend:
(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.
Provide an emergency shower with face and eye wash station.
HAND PROTECTION
Protect hands with category III work gloves (see standard EN 374).
The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.
SKIN PROTECTION
Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.
Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.
EYE PROTECTION
Wear airtight protective goggles (see standard EN 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, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
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.
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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	Concentration: 100 % Temperature: 20 °C
Colour	yellow	Concentration: 100 % Temperature: 20 °C
Odour	characteristic	Concentration: 100 % Temperature: 20 °C
Melting point / freezing point	not available	Reason for missing data:dato non misurato
Initial boiling point	35	

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

	>		°C	Concentration: 100 %
Flammability		non pertinente		
Lower explosive limit		3,5	% (v/v)	Remark:Etanolo Concentration: 100 % Temperature: 20 °C
Upper explosive limit		15	% (v/v)	Remark:Etanolo Concentration: 100 % Temperature: 20 °C
Flash point	<	23	°C	Concentration: 100 %
Auto-ignition temperature	<	425	°C	Remark:Etanolo Concentration: 100 %
Decomposition temperature		non disp°oCnibile		Remark:test non effettuato
Self-accelerating decomposition temperature (SADT)		not available		Remark:test non effettuato
pH		6,5		Concentration: 100 % Temperature: 20 °C
Kinematic viscosity		not available		Remark:non rilevata
Dynamic viscosity		non disponibile		Remark:non rilevata
Solubility		solubile in alcool		Concentration: 100 % Temperature: 20 °C
Partition coefficient: n-octanol/water		non disponibile		Remark:non applicabile
Vapour pressure		not available		Remark:non disponibile
Density and/or relative density		0,85	kg/l	Concentration: 100 % Temperature: 20 °C
Relative vapour density		not available		Remark:non disponibile Reason for missing data:dato non misurato

Particle characteristics

Median equivalent diameter

Remark: Non applicabile

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	non esplosivo	Concentration: 100 % Temperature: 20 °C
Oxidising properties	non ossidante	Concentration: 100 % Temperature: 20 °C

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.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Ethanol

gomma naturale, PVC, plastica metil-metacrilato, poliammidi, zinco, ottone, alluminio in determinate condizioni.

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

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.

Ethanol
Stabile in condizioni normali. La combustione genererà ossidi di carbonio.

SECTION 11. Toxicological information

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

Citral
Repeated dose toxicity (OECD Test Guideline 407) - NOAEL: 60 mg/kg; LOAEL: 60 mg/kg
Dermal toxicity - human (RIFM-Research Institute for Fragrance Materials or OECD Test Guideline 407):
NOEL (no observed effect level): 1414 µg/cm²
LOEL (lowest observed effect level): 3876 µg/cm²
NESIL (no expected sensitization induction level): 1400 µg/cm²
Skin corrosion/irritation (dermal)(HRIPT): irritating
Skin sensitization (HRIPT): sensitizing
Eye: Irritation (ocular)(FHSA): mildly irritant
Inhalation toxicity (OECD Test Guideline 403): LC50 34 mg/m3
Developmental NOAEL maternal: 60 mg/kg; NOAEL foetal: 60 mg/kg
Reproductive Toxicity NOAEL: 1000 mg/kg
Genotoxicity (in vivo): negative. Genotoxicity (in vitro): negative

Orange, Sweet, Ext.
Repeated dose toxicity (OECD Test Guideline 407) - NOAEL: 5 mg/kg; LOAEL: 30 mg/kg
Dermal toxicity - human (RIFM-Research Institute for Fragrance Materials or OECD Test Guideline 402):
NOEL (no observed effect level): 10600 µg/cm²
LOEL (lowest observed effect level): n/a µg/cm²
NESIL (no expected sensitization induction level): 10600 µg/cm²
Skin corrosion/irritation (dermal)(HRIPT): irritating
Skin sensitization (HRIPT): sensitizing @4%
Eye: Irritation (ocular)(FHSA): not irritating
Inhalation toxicity (OECD Test Guideline 403): LC50 n/a mg/m3
Developmental NOAEL maternal: 591 mg/kg; NOAEL foetal: 591 mg/kg
Reproductive Toxicity NOAEL: 1500 mg/kg
Genotoxicity (in vivo): negative. Genotoxicity (in vitro): negative

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

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

Citral

LD50 (Dermal):	> 2000 mg/kg ECHA
LD50 (Oral):	6800 mg/kg ECHA

Citronellal

LD50 (Dermal):	> 2500 mg/kg ECHA
LD50 (Oral):	2423 mg/kg ECHA

SECTION 11. Toxicological information ... / >>

Ethanol
LD50 (Oral): > 5000 mg/kg Rat
LC50 (Inhalation vapours): > 120 mg/l/4h Pimephales promelas

Orange, Sweet, Ext.
LD50 (Dermal): > 5000 mg/kg ECHA
LD50 (Oral): > 5000 mg/kg ECHA

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

Orange, Sweet, Ext.
LD50 (Dermal): 5000 mg/kg ECHA
LD50 (Oral): 5000 mg/kg ECHA

Cymbopogon Winterianus, Ext.
LD50 (Dermal): < 2000 mg/kg ECHA
LD50 (Oral): > 300 mg/kg ECHA

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

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

SECTION 12. Ecological information

12.1. Toxicity

Citral
c) Tossicità per i batteri - Endpoint: EC50 - Specie: Microrganismi (Bacterial Reverse Mutation Test: OECD 471) 160 mg/l - Durata h: 3 - Note: ECHA

SECTION 12. Ecological information ... / >>

Citronellol
a) Tossicità acquatica acuta - Endpoint: EC50 - Specie: Microrganismi (Bacterial Reverse Mutation Test: OECD 471) 10000 mg/l - Durata h: 3 - Note: ECHA

Citral

LC50 - for Fish	6,78 mg/l/96h ECHA
EC50 - for Crustacea	6,8 mg/l/48h ECHA
EC50 - for Algae / Aquatic Plants	103,84 mg/l/72h ECHA

Citronellal

LC50 - for Fish	22 mg/l/96h ECHA
EC50 - for Crustacea	8,68 mg/l/48h ECHA
EC50 - for Algae / Aquatic Plants	13,33 mg/l/72h ECHA

Ethanol

LC50 - for Fish	13500 mg/l/96h
EC50 - for Crustacea	12340 mg/l/48h
EC50 - for Algae / Aquatic Plants	275 mg/l/72h
Chronic NOEC for Crustacea	> 10 mg/l
Chronic NOEC for Algae / Aquatic Plants	3240 mg/l

Orange, Sweet, Ext.

LC50 - for Fish	5,61 mg/l/96h ECHA
EC50 - for Crustacea	1,1 mg/l/48h ECHA
EC50 - for Algae / Aquatic Plants	4,3 mg/l/72h ECHA

Citronellol

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

Orange, Sweet, Ext.

LC50 - for Fish	5,65 mg/l/96h ECHA
EC50 - for Crustacea	1,1 mg/l/48h ECHA
EC50 - for Algae / Aquatic Plants	4,3 mg/l/72h ECHA
Chronic NOEC for Algae / Aquatic Plants	50 mg/l ECHA

Cymbopogon Winterianus, Ext.

LC50 - for Fish	7,5 mg/l/96h
EC50 - for Crustacea	5 mg/l/48h
EC50 - for Algae / Aquatic Plants	34 mg/l/72h

12.2. Persistence and degradability

Ethanol

Solubility in water	>1000-10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

Ethanol

Partition coefficient: n-octanol/water	> 3,5 Log Kow

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.

SECTION 12. Ecological information ... / >>

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: 1266

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

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

14.4. Packing group

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 33 Special provision: 163, 640D	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
IMDG:	EMS: F-E, S-D	Limited Quantities: 5 L	
IATA:	Cargo: Pass.: 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

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicable

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:
None

Substances subject to the Rotterdam Convention:
None

Substances subject to the Stockholm Convention:
None

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

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the product

SECTION 16. Other information

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	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)

SECTION 16. Other information ... / >>

- 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
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)

- 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.

SECTION 16. Other information ... / >>

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:
01 / 02 / 03 / 05 / 08 / 09 / 10 / 11 / 12 / 14.