

NCNWC00035 - N°7 MUSK CASSIS

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: NCNWC00035
Product name: N°7 MUSK CASSIS
UFI: PDK0-80UY-H00Y-7FKC

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

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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.
H411 Toxic to aquatic life with long lasting effects.
EUH208 Contains: Pin-2 (10) -Ene
 Citronellol
 May produce an allergic 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.

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

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
Ethanol		
INDEX 603-002-00-5	$78 \leq x < 82$	Flam. Liq. 2 H225, Eye Irrit. 2 H319
EC 200-578-6		Eye Irrit. 2 H319: $\geq 50\%$
CAS 64-17-5		
REACH Reg. 01-2119457610-43-xxxx		
1,3,4,6,7,8-Hexahydro-4,6,6,7,8-Hexamethylindeno [5,6-C] Pyran		
INDEX 603-212-00-7	$2 \leq x < 2,5$	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 214-946-9		
CAS 1222-05-5		
REACH Reg. 01-2119488227-29-xxxx		
Citronellol		
INDEX 203-375-0 CAS	$0,354 \leq x < 0,404$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317
EC 106-22-9		
REACH Reg. 01-2119453995-23-xxxx		

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

Pin-2 (10) -Ene

INDEX

 $0,354 \leq x < 0,404$

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 204-872-5

CAS 127-91-3

REACH Reg. 01-2119519230-54-xxxx

TOLUENE

INDEX

601-021-00-3

 $0 \leq x < 0,05$

Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336

EC 203-625-9

CAS 108-88-3

REACH Reg. 01-2119471310-51-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. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless 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.

1,3,4,6,7,8-Hexahydro-4,6,6,7,7,8-Hexamethylindeno [5,6-C] Pyran

Durante la combustione possono formarsi monossido di carbonio e composti organici non identificati.

Ethanol

la combustione genererà ossidi di carbonio

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).

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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:

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

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

TOLUENE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	190	50	760	200	SKIN
MAK	DEU	190	50	760	200	SKIN
VLA	ESP	192	50	384	100	SKIN
VLEP	FRA	76,8	20	384	100	SKIN
VLEP	ITA	192	50			SKIN
WEL	GBR	191	50	384	100	SKIN
OEL	EU	192	50	384	100	SKIN
TLV-ACGIH			20			

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,68	mg/l
Normal value in marine water	0,68	mg/l
Normal value for fresh water sediment	16,39	mg/kg
Normal value for marine water sediment	16,39	mg/kg
Normal value of STP microorganisms	13,61	mg/l
Normal value for the terrestrial compartment	2,89	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral				8,13 mg/kg bw/d				
Inhalation	226 mg/m3	226 mg/m3	56,5 mg/m3	56,5 mg/m3	384 mg/m3	384 mg/m3	192 mg/m3	192 mg/m3
Skin				226 mg/kg bw/d				384 mg/kg bw/d

Pin-2 (10) -Ene

Predicted no-effect concentration - PNEC

Normal value in fresh water	1,004	ug/l
Normal value in marine water	0,1	ug/l
Normal value for fresh water sediment	337	ug/l
Normal value for marine water sediment	33,7	ug/l
Normal value of STP microorganisms	3,26	mg/l
Normal value for the terrestrial compartment	67,1	ug/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral				0.3 mg/kg				
Inhalation				1 mg/m3				5.69 mg/m3
Skin				0.3 mg/kg				0.8 mg/kg

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

1,3,4,6,7,8-Hexahydro-4,6,6,7,8-Hexamethylindeno [5,6-C] Pyran

Predicted no-effect concentration - PNEC

Normal value in fresh water	6,8	ug/l
Normal value in marine water	0,44	ug/l
Normal value for fresh water sediment	2	mg/kg
Normal value for marine water sediment	0,394	mg/kg
Normal value of STP microorganisms	1	mg/l
Normal value for the food chain (secondary poisoning)	20,4	mg/kg
Normal value for the terrestrial compartment	1,5	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,3 mg/kg bw/d				
Inhalation			6.5	4 mg/m3			22	13,5 mg/m3
Skin				22 mg/kg bw/d				36,7 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

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

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

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

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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 (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 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 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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	Concentration: 100 % Temperature: 20 °C
Colour	colourless	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 °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

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

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

VOC (Directive 2010/75/EU)	< 0.01 % - < 0.01	g/litre	
VOC (volatile carbon)	< 0.01 % - < 0.01	g/litre	
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.

TOLUENE

Avoid exposure to: light.

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.

TOLUENE

Risk of explosion on contact with: fuming sulphuric acid, nitric acid, silver perchlorate, nitrogen dioxide, non-metal halogenates, acetic acid, organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

10.4. Conditions to avoid

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

10.5. Incompatible materials

1,3,4,6,7,8-Hexahydro-4,6,6,7,7,8-Hexamethylindeno [5,6-C] Pyran

Evitare il contatto con acidi forti, alcali o agenti ossidanti.

Ethanol

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

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.

1,3,4,6,7,8-Hexahydro-4,6,6,7,7,8-Hexamethylindeno [5,6-C] Pyran

Durante la combustione possono formarsi monossido di carbonio e composti organici non identificati.

Ethanol

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

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SECTION 11. Toxicological information

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

1,3,4,6,7,8-Hexahydro-4,6,6,7,7,8-Hexamethylindeno [5,6-C] Pyran
 Repeated dose toxicity (OECD Test Guideline 407) - NOAEL: 150 mg/kg; LOAEL: 350 mg/kg
 Dermal toxicity - human (RIFM-Research Institute for Fragrance Materials or OECD Test Guideline 402):
 NOEL (no observed effect level): 11840 µg/cm²
 LOEL (lowest observed effect level): n/a µg/cm²
 NESIL (no expected sensitization induction level): 11800 µg/cm²
 Skin corrosion/irritation (dermal)(HRIPT): not irritating
 Skin sensitization (HRIPT): non sensitizing
 Eye: Irritation (ocular)(FHSA): non irritating
 Inhalation toxicity (OECD Test Guideline 403): LC50 n/a mg/m³
 Developmental NOAEL maternal: 50 mg/kg; NOAEL foetal: 150 mg/kg
 Reproductive Toxicity NOAEL: 20 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

TOLUENE
 WORKERS: inhalation; contact with the skin.
 POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

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

TOLUENE
 Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Interactive effects

TOLUENE
 Certain drugs and other industrial products can interfere with the metabolism of the toluene.

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)

TOLUENE	
LD50 (Dermal):	> 5000 mg/kg ECHA
LD50 (Oral):	> 5000 mg/kg ECHA
LC50 (Inhalation vapours):	> 20 mg/l/4h ECHA

1,3,4,6,7,8-Hexahydro-4,6,6,7,7,8-Hexamethylindeno [5,6-C] Pyran	
LD50 (Dermal):	> 3250 mg/kg
LD50 (Oral):	4640 mg/kg
LC50 (Inhalation gas):	> 5,04 ppm/4h

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

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

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

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SECTION 11. Toxicological information ... / >>

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

Pin-2 (10) -Ene

Citronellol

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

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

SECTION 12. Ecological information

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

12.1. Toxicity

Pin-2 (10) -Ene

a) Tossicità acquatica acuta - Endpoint: EC50 - Specie: Microrganismi (Bacterial Reverse Mutation Test: OECD 471) 326 mg/l - Durata h: 3 - Note: ECHA

1,3,4,6,7,8-Hexahydro-4,6,6,7,7,8-Hexamethylindeno [5,6-C] Pyran

a) Tossicità acquatica acuta - Endpoint: EC50 - Specie: Microrganismi (Bacterial Reverse Mutation Test: OECD 471) 10.0 mg/l - Durata h: 3 - Note: ECHA

Citronellol

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

TOLUENE

LC50 - for Fish

5,5 mg/l/96h ECHA

EC50 - for Crustacea

3,78 mg/l/48h ECHA

EC50 - for Algae / Aquatic Plants

134 mg/l/72h ECHA

Chronic NOEC for Fish

1,4 mg/l ECHA

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SECTION 12. Ecological information ... / >>

Chronic NOEC for Crustacea	0,74 mg/l ECHA
Chronic NOEC for Algae / Aquatic Plants	10 mg/l ECHA
Pin-2 (10) -Ene	
LC50 - for Fish	0,502 mg/l/96h ECHA
EC50 - for Crustacea	1,194 mg/l/48h ECHA
EC50 - for Algae / Aquatic Plants	0,826 mg/l/72h ECHA
1,3,4,6,7,8-Hexahydro-4,6,6,7,7,8-Hexamethylindeno [5,6-C] Pyran	
EC50 - for Crustacea	0,194 mg/l/48h 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
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

12.2. Persistence and degradability

TOLUENE	
Solubility in water	100 - 1000 mg/l
Rapidly degradable	
Ethanol	
Solubility in water	>1000-10000 mg/l
Rapidly degradable	

12.3. Bioaccumulative potential

TOLUENE	
Partition coefficient: n-octanol/water	2,73
BCF	90
1,3,4,6,7,8-Hexahydro-4,6,6,7,7,8-Hexamethylindeno [5,6-C] Pyran	
BCF	> 500
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 $\geq$ 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

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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: Environmentally Hazardous



IMDG: Marine Pollutant



IATA: NO

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

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33
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:

Maximum quantity: 60 L

Packaging instructions: 364

Pass.:

Maximum quantity: 5 L

Packaging instructions: 353

Special provision:

A3, A72

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

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SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: P5c-E2

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

Product

Point 3 - 40

Contained substance

Point 75

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

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage $\geq$ 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.

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
Repr. 2	Reproductive toxicity, category 2
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1B	Skin sensitization, category 1B
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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SECTION 16. Other information ... / >>

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 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)
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 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.

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SECTION 16. Other information ... / >>

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.

Changes to previous review:

The following sections were modified:

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