

	CARTAI BASSANESI S.p.A.	Revision nr. 1
	Lavender e patchouli_c_01	Dated 09/06/2023 First compilation Printed on 09/06/2023 Page n. 1/21

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: Lavender e patchouli_c_01
Product name: Lavender e patchouli_c_01

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

Intended use: Synthetic fragrance

1.3. Details of the supplier of the safety data sheet

Name: CARTAI BASSANESI S.p.A.
Full address: Via Santa Caterina, 258
District and Country: 31011 ASOLO (TV)
Italia
tel. 0423 541600

e-mail address of the competent person
responsible for the Safety Data Sheet: cartai@cartaibassanesi.it

1.4. Emergency telephone number

For urgent inquiries refer to:
NHS in England: 111
NHS in Scotland: 111
NHS Direct in Wales: 111 or 0845 4647
In an emergency, if the patient has collapsed or is not breathing properly, call 999

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:

Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms:



Signal words:

Warning

Hazard statements:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P331 Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P310 Immediately call a POISON CENTER / doctor / . . .
P273 Avoid release to the environment.
P391 Collect spillage.

Contains: 1-(4-tert-Butyl-2,6-dimethyl-3,5-dinitrophenyl) ethanone
(R)-P-MENTHA-1,8-DIENE
3,7-Dimethylocta-2,6-dien-1-ol
2E-3,7-Dimethylocta-2,6-dien-1-ol
3,7-Dimethyloct-6-en-1-ol
2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene
6,6-Dimethyl-2-methylenebicyclo[3.1.1]heptane
1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane
2-(6,6-Dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate
1,5-Dimethyl-1-vinylhex-4-en-1-yl acetate
2-Methyl-3-phenylacrylaldehyde
2-(4-Methylcyclohexyl)propan-2-ol
1-Methyl-1-(4-methylcyclohexyl)ethyl acetate
COUMARIN
ACETYL CEDRENE
LINALOOL
BETA-CARYOPHYLLENE
eugenol

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2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration $\geq$ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
1-Methyl-1-(4-methylcyclohex-3-en-1-yl)ethyl acetate		
CAS 8007-35-0	$9 \leq x < 10.5$	Aquatic Chronic 2 H411
EC 232-357-5		
INDEX -		
LINALOOL		
CAS 78-70-6	$10 \leq x < 11.5$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317
EC 201-134-4		
INDEX -		
(R)-P-MENTHA-1,8-DIENE		
CAS 5989-27-5	$2.5 \leq x < 3$	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 227-813-5		
INDEX 601-096-00-2		
DIPROPYLENE GLYCOL MONOMETHYL ETHER		
CAS 34590-94-8	$2.5 \leq x < 3$	Substance with a community workplace exposure limit.
EC 252-104-2		
INDEX -		
1,3,3-trimethyl-2-oxabicyclo[2.2.2]octane		
CAS 470-82-6	$2.5 \leq x < 3$	Flam. Liq. 3 H226, Skin Sens. 1 H317
EC 207-431-5		
INDEX -		
2-(6,6-Dimethylbicyclo[3.1.1]hept-2-en-2-yl) ethyl acetate		
CAS 128-51-8	$2.5 \leq x < 3$	Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC 204-891-9		
INDEX -		
1,5-Dimethyl-1-vinylhex-4-en-1-yl acetate		
CAS 115-95-7	$2.5 \leq x < 3$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317
EC 204-116-4		
INDEX -		

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3a,4,5,6,7,7a-Hexahydro-1H-4,7-methanoinden-1-yl acetate			
CAS 5413-60-5	1 ≤ x < 1.5	Aquatic Chronic 3 H412	
EC 226-501-6			
INDEX -			
3,5,5-Trimethylhexyl acetate			
CAS 58430-94-7	1 ≤ x < 1.5	Skin Irrit. 2 H315, Aquatic Chronic 2 H411	
EC 261-245-9			
INDEX -			
1,1'-Oxydibenzene			
CAS 101-84-8	1 ≤ x < 1.5	Eye Irrit. 2 H319, Aquatic Chronic 2 H411	
EC 202-981-2			
INDEX -			
2-Methyl-3-phenylacrylaldehyde			
CAS 101-39-3	1 ≤ x < 1.5	Skin Sens. 1 H317	
EC 202-938-8			
INDEX -			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1Hinden-6-yl propionate			
CAS 68912-13-0	1 ≤ x < 1.5	Aquatic Chronic 2 H411	
EC 272-805-7			
INDEX -			
1-Isopropyl-4-methylbenzene			
CAS 99-87-6	1 ≤ x < 1.5	Flam. Liq. 3 H226, Repr. 2 H361, Acute Tox. 3 H331, Asp. Tox. 1 H304, Aquatic Chronic 2 H411	
EC 202-796-7			
STA Inhalation mists/powders: 0.501 mg/l, STA Inhalation vapours: 3 mg/l			
INDEX -			
(1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl)-cyclohexanol			
CAS 68877-29-2	1 ≤ x < 1.5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411	
EC 272-556-4			
INDEX -			
2-(4-Methylcyclohexyl)propan-2-ol			
CAS 498-81-7	1 ≤ x < 1.5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317	
EC 207-871-8			
INDEX -			
4,8a,9,9-Tetramethyloctahydro-1,6-methanonaphthalen-1(2H)-ol			
CAS 5986-55-0	1 ≤ x < 1.5	Aquatic Chronic 2 H411	
EC 227-807-2			
INDEX -			
1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one			
CAS 76-22-2	1 ≤ x < 1.5	Flam. Sol. 1 H228, Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 2 H371, Aquatic Chronic 2 H411	
EC 200-945-0			
STA Oral: 500 mg/kg, STA Inhalation mists/powders: 1.5 mg/l, STA Inhalation vapours: 11 mg/l			

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Allyl heptanoate

CAS 142-19-8	$1 \leq x < 1.5$	Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 4 H332, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 205-527-1		STA Oral: 100 mg/kg, STA Dermal: 300 mg/kg, STA Inhalation mists/powders: 1.5 mg/l, STA Inhalation vapours: 11 mg/l

INDEX -

alpha-Guaiene

CAS 3691-12-1	$1 \leq x < 1.5$	Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 641-402-1		

INDEX -

Octan-2-one

CAS 111-13-7	$1 \leq x < 1.5$	Flam. Liq. 3 H226, Eye Irrit. 2 H319, Aquatic Chronic 3 H412
EC 203-837-1		

INDEX -

1-Methyl-1-(4-methylcyclohexyl)ethyl acetate

CAS 58985-18-5	$1 \leq x < 1.5$	Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC 261-543-9		

INDEX -

1-(4-tert-Butyl-2,6-dimethyl-3,5-dinitrophenyl) ethanone

CAS 81-14-1	$1 \leq x < 1.5$	Carc. 2 H351, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 201-328-9		

INDEX -

COUMARIN

CAS 91-64-5	$1 \leq x < 1.5$	Acute Tox. 4 H302, Skin Sens. 1B H317
EC 202-086-7		STA Oral: 500 mg/kg

INDEX -

ETHYL VANILLIN

CAS 121-32-4	$1 \leq x < 1.5$	Eye Irrit. 2 H319
EC 204-464-7		

INDEX -

ACETYL CEDRENE

CAS 32388-55-9	$1 \leq x < 1.5$	Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 251-020-3		

INDEX -

BETA-CARYOPHYLLENE

CAS 87-44-5	$1 \leq x < 1.5$	Asp. Tox. 1 H304, Skin Sens. 1B H317
EC 201-746-1		

INDEX -

eugenol

CAS 97-53-0	$1 \leq x < 1.5$	Eye Irrit. 2 H319, Skin Sens. 1B H317
EC 202-589-1		

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Benzyl acetate

CAS 140-11-4 1 ≤ x < 1.5 Aquatic Chronic 3 H412
EC 205-399-7
INDEX -

2-(4-Methylcyclohex-3-en-1-yl)propan-2-ol

CAS 98-55-5 1 ≤ x < 1.5 Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC 202-680-6
INDEX -

3,7-Dimethylocta-2,6-dien-1-ol

CAS 106-24-1 1 ≤ x < 1.5 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317
EC 203-377-1
INDEX -

2E-3,7-Dimethylocta-2,6-dien-1-ol

CAS 106-25-2 1 ≤ x < 1.5 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317
EC 203-378-7
INDEX -

3,7-Dimethyloct-6-en-1-ol

CAS 106-22-9 1 ≤ x < 1.5 Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317
EC 203-375-0
INDEX -

2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol

CAS 63500-71-0 1 ≤ x < 1.5 Eye Irrit. 2 H319
EC 405-040-6
INDEX -

2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene

CAS 80-56-8 1 ≤ x < 1.5 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 201-291-9
INDEX -

6,6-Dimethyl-2-methylenebicyclo[3.1.1]heptane

CAS 127-91-3 1 ≤ x < 1.5 Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 204-872-5
INDEX -

1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylcyclopenta[g]-2-benzopyran

CAS 1222-05-5 1 ≤ x < 1.5 Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 214-946-9
INDEX -

Dihydromyrcenol

CAS 18479-58-8 1 ≤ x < 1.5 Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H336

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EC
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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
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
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

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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.

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
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)

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EU OEL EU 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.

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

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	28	5	112	20	SKIN
MAK	DEU	28	5	112	20	SKIN

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	310	50	310	50	
MAK	DEU	310	50	310	50	
VLEP	ITA	308	50			SKIN
TGG	NLD	300				
WEL	GBR	308	50			SKIN
OEL	EU	308	50			SKIN

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

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.

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, use a mask with a type A filter

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whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (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	
Colour	Pale yellow	
Odour	characteristic	
Melting point / freezing point	Not determined	
Initial boiling point	Not determined	
Flammability	combustible	
Lower explosive limit	Not determined	
Upper explosive limit	Not determined	
Flash point	85 °C	
Auto-ignition temperature	Not determined	
Decomposition temperature	Not determined	
pH	Not available	Reason for missing data: non-aqueous, undeterminable mixture
Kinematic viscosity	Not determined	
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	Not determined	
Vapour pressure	Not determined	
Density and/or relative density	0.93	
Relative vapour density	Not determined	
Particle characteristics	Not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

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Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Forms peroxides with: air.

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.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

May react violently with: strong oxidising agents.

10.4. Conditions to avoid

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Avoid exposure to: sources of heat. Possibility of explosion.

10.5. Incompatible materials

Information not available

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

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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 - mists / powders) of the mixture:	> 5 mg/l
ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Inhalation - gas) of the mixture:	0.0 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

COUMARIN

STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
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eugenol

LD50 (Oral):	2130 mg/kg
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1-Isopropyl-4-methylbenzene

STA (Inhalation mists/powders):	0.501 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Inhalation vapours):	3 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

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1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one

STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Inhalation mists/powders):	1.5 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Inhalation vapours):	11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

Allyl heptanoate

STA (Oral):	100 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Dermal):	300 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Inhalation mists/powders):	1.5 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
STA (Inhalation vapours):	11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Respiratory sensitization

Information not available

Skin sensitization

Information not available

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GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Suspected of causing cancer

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

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Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Toxic for aspiration

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

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

LC50 - for Fish

35 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

69.6 mg/l/48h Daphnia pulex

12.2. Persistence and degradability

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

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

DIPROPYLENE GLYCOL MONOMETHYL
ETHER

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

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

Partition coefficient: n-octanol/water 4.38

BCF 1022

DIPROPYLENE GLYCOL MONOMETHYL
ETHER

Partition coefficient: n-octanol/water 0.0043

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

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.

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SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG,	3082
IATA:	
ADR / RID:	In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to ADR provisions.
IMDG:	In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.
IATA:	In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

14.2. UN proper shipping name

ADR / RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IATA:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es)

ADR / RID:	Class: 9	Label: 9
IMDG:	Class: 9	Label: 9
IATA:	Class: 9	Label: 9



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14.4. Packing group

ADR / RID, IMDG, III
IATA:

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous
IMDG: Marine Pollutant
IATA: Environmentally Hazardous



14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 L	Tunnel restriction code: (-)
	Special provision: 274, 335, 375, 601		
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Pass.:	Maximum quantity: 450 L	Packaging instructions: 964
	Special provision:	A97, A158, A197, A215	

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: 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

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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 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. 3	Flammable liquid, category 3
Flam. Sol. 1	Flammable solid, category 1
Carc. 2	Carcinogenicity, category 2
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Asp. Tox. 1	Aspiration hazard, category 1
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3

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STOT SE 2	Specific target organ toxicity - single exposure, category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H226	Flammable liquid and vapour.
H228	Flammable solid.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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)
- 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).

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Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.