

	CARTAI BASSANESI S.p.A.	Revision nr. 1
	Magnolia_d_11	Dated 30/09/2024 First compilation Printed on 30/09/2024 Page n. 1/16

Safety Data Sheet

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

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

1.1. Product identifier

Code: **Magnolia_d_11**
Product name: **Magnolia_d_11**
UFI: **QK20-408Q-600J-HFTQ**

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. **+39 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:

Eye irritation, category 2	H319	Causes serious eye 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

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

Hazard pictograms:



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Signal words:	Warning
Hazard statements:	
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statements:	
P280	Wear protective gloves / eye protection / face protection.
P273	Avoid release to the environment.
P391	Collect spillage.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P337+P313	If eye irritation persists: Get medical advice / attention.
Contains:	2-(4-tert-butylbenzyl)propionaldehyde Benzyl salicylate 3,7-Dimethyloct-6-en-1-ol 2-Benzylideneoctanal 1,5-Dimethyl-1-vinylhex-4-en-1-yl acetate (R)-P-MENTHA-1,8-DIENE LINALOOL ALPHA-METHYL-1,3-BENZODIOXOLE-5-PROPIONALDEHYDE 3-(4-Isopropylphenyl)-2-methylpropanal 6,6-Dimethyl-2-methylenebicyclo[3.1.1]heptane 3,7-Dimethylocta-2,6-dien-1-yl acetate 3-(p-methoxyphenyl)-2-methylpropionaldehyde (Z)-hex-3-enyl benzoate Hexyl salicylate GERANIOL

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)
3-Methoxy-3-methyl-1-butanol		
INDEX -	82 ≤ x < 86	Eye Irrit. 2 H319
EC 260-252-4		
CAS 56539-66-3		
LINALOOL		
INDEX -	2 ≤ x < 2.5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317
EC 201-134-4		
CAS 78-70-6		
Benzyl salicylate		
INDEX -	2 ≤ x < 2.5	Skin Sens. 1 H317
EC 204-262-9		
CAS 118-58-1		
DIPROPYLENE GLYCOL MONOMETHYL ETHER		
INDEX -	1.5 ≤ x < 2	Substance with a community workplace exposure limit.
EC 252-104-2		
CAS 34590-94-8		
(R)-P-MENTHA-1,8-DIENE		
INDEX 601-096-00-2	1 ≤ x < 1.5	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		
CAS 5989-27-5		
Verdox		
INDEX	1 ≤ x < 1.5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335
EC -		
CAS 88-41-5		
3,7-Dimethyloct-6-en-1-ol		
INDEX -	1 ≤ x < 1.5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317
EC 203-375-0		
CAS 106-22-9		
2-(4-tert-butylbenzyl)propionaldehyde		
INDEX -	1 ≤ x < 1.5	Acute Tox. 4 H302, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 1 H410 M=1 ATE Oral: 500 mg/kg
EC 201-289-8		
CAS 80-54-6		
Benzyl acetate		
INDEX -	1 ≤ x < 1.5	Aquatic Chronic 3 H412
EC 205-399-7		
CAS 140-11-4		
2-Benzylideneoctanal		
INDEX -	1 ≤ x < 1.5	Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

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EC 202-983-3 CAS 101-86-0 2-Phenylethanol INDEX - $1 \leq x < 1.5$ Acute Tox. 4 H302, Eye Irrit. 2 H319 ATE Oral: 500 mg/kg EC 200-456-2 CAS 60-12-8 1,5-Dimethyl-1-vinylhex-4-en-1-yl acetate INDEX - $1 \leq x < 1.5$ Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317 EC 204-116-4 CAS 115-95-7 GERANIOL INDEX 603-241-00-5 $0.3 \leq x < 0.35$ Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317 EC 203-377-1 CAS 106-24-1 Hexyl salicylate INDEX - $0.25 \leq x < 0.3$ Repr. 2 H361, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 EC 228-408-6 CAS 6259-76-3 1-Isopropyl-4-methylcyclohexa-1,4-diene INDEX - $0.1 \leq x < 0.15$ Flam. Liq. 3 H226, Repr. 2 H361, Asp. Tox. 1 H304, Aquatic Chronic 2 H411 EC 202-794-6 CAS 99-85-4 (Z)-3-hexenyl salicylate INDEX - $0.1 \leq x < 0.15$ Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 EC 265-745-8 CAS 65405-77-8 3,7-Dimethylocta-2,6-dien-1-yl acetate INDEX - $0.1 \leq x < 0.15$ Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 3 H412 EC 203-341-5 CAS 105-87-3 ALPHA-METHYL-1,3-BENZODIOXOLE-5-PROPIONALDEHYDE INDEX - $0.1 \leq x < 0.15$ Repr. 2 H361, Skin Sens. 1B H317, Aquatic Chronic 2 H411 EC 214-881-6 CAS 1205-17-0 6,6-Dimethyl-2-methylenebicyclo[3.1.1]heptane INDEX - $0.1 \leq x < 0.15$ 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 CAS 127-91-3 REACH Reg. 01-2119519230-54 3-(4-Isopropylphenyl)-2-methylpropanal			

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INDEX - $0.1 \leq x < 0.15$ Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317

EC 203-161-7

CAS 103-95-7

3-(p-methoxyphenyl)-2-methylpropionaldehyde

INDEX - $0.1 \leq x < 0.15$ Skin Sens. 1 H317

EC 226-749-5

CAS 5462-06-6

REACH Reg. 01-2120769416-45,
01-2120629103-67

(Z)-hex-3-enyl benzoate

INDEX - $0.1 \leq x < 0.15$ Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 246-669-4

CAS 25152-85-6

REACH Reg. 01-2120525150-73

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

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

If skin irritation or rash occurs: Get medical advice / attention.

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

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Running water for skin and eye wash.

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 firefighting 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.

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

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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. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. 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	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
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)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2023

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Threshold Limit Value					
Type	Country	TWA/8h		STEL/15min	
		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
TLV-ACGIH			50		

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

Threshold Limit Value					
Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	28	5	112	20
MAK	DEU	28	5	112	20

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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.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category 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 ISO 16321).

RESPIRATORY PROTECTION

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with wastewater 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 to yellow	
Odour	characteristic	
Melting point / freezing point	not determined	
Initial boiling point	not determined	
Flammability	not flammable	
Lower explosive limit	not determined	
Upper explosive limit	not determined	
Flash point	80 °C	Method:Closed Cup

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<table><tr><td>Auto-ignition temperature</td><td>not determined</td><td></td></tr><tr><td>Decomposition temperature</td><td>not determined</td><td></td></tr><tr><td>pH</td><td>not available</td><td>Concentration: 998 %</td></tr><tr><td>Kinematic viscosity</td><td>not determined</td><td></td></tr><tr><td>Solubility</td><td>not determined</td><td></td></tr><tr><td>Partition coefficient: n-octanol/water</td><td>not determined</td><td></td></tr><tr><td>Vapour pressure</td><td>0.19 hPa</td><td>Remark: Calculated Temperature: 20 °C</td></tr><tr><td>Density and/or relative density</td><td>0.9720 - 0.9820</td><td></td></tr><tr><td>Relative vapour density</td><td>not available</td><td></td></tr><tr><td>Particle characteristics</td><td>not applicable</td><td></td></tr></table>				Auto-ignition temperature	not determined		Decomposition temperature	not determined		pH	not available	Concentration: 998 %	Kinematic viscosity	not determined		Solubility	not determined		Partition coefficient: n-octanol/water	not determined		Vapour pressure	0.19 hPa	Remark: Calculated Temperature: 20 °C	Density and/or relative density	0.9720 - 0.9820		Relative vapour density	not available		Particle characteristics	not applicable	
Auto-ignition temperature	not determined																																
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Vapour pressure	0.19 hPa	Remark: Calculated Temperature: 20 °C																															
Density and/or relative density	0.9720 - 0.9820																																
Relative vapour density	not available																																
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																																	
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																																	

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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

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:	>2000 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)
2-(4-tert-butylbenzyl)propionaldehyde	
ATE (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)
2-Phenylethanol	
ATE (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)
GERANIOL	
LD50 (Dermal):	> 5000 mg/kg bw Rabbit
LD50 (Oral):	3600 mg/kg bw Rat

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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

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

12.1. Toxicity

GERANIOL	
LC50 - for Fish	22 mg/l/96h Danio rerio
EC50 - for Crustacea	10.8 mg/l/48h Daphnia magna

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EC50 - for Algae / Aquatic Plants13.1 mg/l/72h Desmodesmus subspicatus Chronic NOEC for Fish10 mg/l Danio rerio (R)-P-MENTHA-1,8-DIENE LC50 - for Fish35 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea69.6 mg/l/48h Daphnia pulex		
12.2. Persistence and degradability		
GERANIOL Solubility in water100 mg/l Rapidly degradable DIPROPYLENE GLYCOL MONOMETHYL ETHER Solubility in water1000 - 10000 mg/l Rapidly degradable (R)-P-MENTHA-1,8-DIENE Solubility in water0,1 - 100 mg/l Rapidly degradable		
12.3. Bioaccumulative potential		
GERANIOL Partition coefficient: n-octanol/water2.6 DIPROPYLENE GLYCOL MONOMETHYL ETHER Partition coefficient: n-octanol/water0.0043 (R)-P-MENTHA-1,8-DIENE Partition coefficient: n-octanol/water4.38 BCF1022		
12.4. Mobility in soil		
Information not available		
12.5. Results of PBT and vPvB assessment		
On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.		
12.6. Endocrine disrupting properties		
Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.		
12.7. Other adverse effects		
Information not available		

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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.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

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

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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
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H226	Flammable liquid and vapour.
H361	Suspected of damaging fertility or the unborn child.
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.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile, and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value

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- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- 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.