

**SAFETY DATA SHEET**

under Regulation (EC) No 1907/2006 of the European Parliament and of the Council, as

amended by Regulation (EU) 2020/878

Replaces.

Release date: 29.5.2023


Date of revision.

Product name:

**EUCALYPTUS RADIATA ESSENTIAL OIL**

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1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY/UNDERTAKING	
1.1	<p><b>Product identifier:</b> Name: <b>EUCALYPTUS RADIATA ESSENTIAL OIL</b> Eucalyptus radiata australiana, ext. CAS No.: 92201-64-4 INCI: EUCALYPTUS RADIATA LEAF/STEM OIL dumb</p>
1.2	<p>registration number: <b>Relevant intended uses of the substance:</b> cosmetic raw material for industrial use <b>Not recommended use:</b> not for internal use</p>
1.3	<p><b>Details of the supplier of the safety data sheet:</b> <b>Full address:</b> Kateřina Kloudová, DiS. Lozická 1561, 190 16 Prague - Újezd nad Lesy Phone: +420 602 329 505 E-mail of the <b>competent person responsible for safety list:</b> katerina@aroma-atelier.cz</p>
1.4	<p><b>Emergency telephone number:</b> (information for health risks only - acute poisoning of humans and animals) <b>+420 224 919 293, +420 224 915 402 (24 hours)</b> Toxicology Information Centre, Na Bojišti 1, Prague 2</p>

2. SECTION 2: HAZARD IDENTIFICATION	
2.1	<p><b>Classification of the substance within the meaning of Regulation (EC) 1272/2008 as amended:</b> <b>Flam. Liq. 3, H226</b> <b>Asp. Tox. 1, H304</b> <b>Skin Irrit. 2, H315</b> <b>Skin Sens. 1B, H317</b> <b>Aquatic Acute 1, H400</b> <b>Aquatic Chronic 1, H410</b></p> <p>Most serious adverse effects: - physical: the substance is classified as a flammable liquid - on human health: The substance may cause death if swallowed and enters the respiratory tract. Irritating to the skin, may cause allergic skin reaction. - Environmental: the substance is classified as highly toxic to aquatic organisms both acutely and chronically.</p>
2.2	<p><b>Elements of labelling within the meaning of Regulation (EC) No 1272/2008 as amended:</b> <b>Hazard warning symbol:</b> </p> <p><b>Signal word: Danger</b></p> <p><b>Standard hazard sentences:</b> H226 Flammable liquid and vapour. H304 May cause death if swallowed and enters the respiratory tract. H315 Irritating to skin. H317 May cause an allergic skin reaction. H410 Highly toxic to aquatic organisms, with long-lasting effects.</p> <p><b>Instructions for safe handling:</b> P210 Protect from heat, hot surfaces, sparks, open flames and other sources of ignition. No smoking. P273 Avoid release to the environment. P280 Wear protective gloves/goggles. P301+P330+P331 IF INGESTED: Rinse mouth. DO NOT induce vomiting. P310 Call the TOXIC INFORMATION CENTRE/physician immediately. P302+P352 IN CASE OF CONTACT WITH SKIN: Wash with plenty of water/soap. P333+P313 In case of skin irritation or rash: seek medical advice/treatment.</p>

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2.3	<p><b>Other applicable elements of the marking:</b> Additional hazard information: names of hazardous ingredients: Cineol, alpha-Pinene, d-Limonene, beta-Pinene</p> <p><b>Other hazard:</b> The substance does not meet the criteria for PBT or vPvB substances in accordance with Annex XIII, Regulation (EC) No 1907/2006 (REACH), as amended. The substance does not meet the criteria for substances with intrusive properties endocrine activity in accordance with the criteria laid down in Commission Delegated Regulation (EU) 2017/2100; or in Commission Regulation (EU) 2018/605.</p>
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<b>3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS</b>			
<b>3.1.</b>	UVCB substance (of unknown or variable composition)	Classification according to Regulation (EC) No 1272/2008	
Chemical name	content in %hm.	Index number CAS number, EC number Registration number	Class code, Hazard category, H-phrases*, Specific concentration limit, Multiplication factor
Cineol Eucalyptol 1,8 -Cineol	≤ 75	dumb 470-82-6; 207-431-5 n/a	Flam. Liq., H226 Skin Sens. 1, H317
Alpha-Pinene 2,6,6-trimethylbicyclo[3.1.1]hept-2-en	≤ 14	dumb 80-56-8; 201-291-9 n/a	Flam. Liq., H226 Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400, M Acute = 1 Aquatic Chronic 1, H410, M Chronic = 1
d-Limonen (R)-p-menta-1,8-diene	≤ 12	dumb 5989-27-5; 227-813-5 n/a	Flam. Liq., 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
gamma-Terpinen p-Mentha-1,4-diene	≤ 8	dumb 99-85-4; 202-794-6 n/a	Flam. Liq., H226 Aquatic Chronic 2, H411
p-Cymen 1-isopropyl-4-methylbenzene	≤ 6	dumb 99-87-6; 202-796-7 n/a	Flam. Liq., H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Alpha-Terpineol trimethylcyclohexane	≤ 6	dumb 98-55-5; 202-680-6 n/a	Eye Irrit. 2, H319 Skin Irrit. 2, H315
Beta-pin Pin-2(10)-ene	≤ 5	dumb 127-91-3; 204-872-5 n/a	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
Myrcene 7-methyl-3-methyleneocta-1,6-diene	≤ 2	dumb 123-35-3; 204-6225 n/a	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400, M = 1 Aquatic Chronic 1, H410, M = 1
Alpha-Felandrene p-menta-1,5-dien	≤ 2	dumb 99-83-6; 202-792-5 n/a	Flam. Liq. 3, H226 Asp. Tox. 1, H304

Notes:

\* See Section 16 for the full text of the H-phrases, class codes and hazard categories listed here.

Exposure limit values, if set, are given in Section 8.

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<b>4.</b>	<b>SECTION 4: FIRST AID INSTRUCTIONS</b>
4.1	<p><b>Description of first aid:</b></p> <p><b>General instructions:</b> If you experience health problems or if in doubt, notify your doctor and provide him/her with the information in this safety data sheet or on the product packaging. In case of unconsciousness, place the victim in Stabilized position on the side with the head slightly inclined. Never administer anything by mouth to an unconscious person. <b>In case of inhalation: in case of</b> inhalation of vapours, discontinue exposure, move the affected person to fresh air, ensure physical and mental calm. Consult a physician.</p> <p><b>In contact with skin:</b> remove contaminated clothing, wash affected skin with soap and water, rinse with water. <b>In case of contact with eyes:</b> Remove contact lenses if the affected person uses them. Rinse immediately with clean lukewarm running water for at least 15 minutes with eyelids wide open, especially the area under the eyelids. When persistent eye irritation, consult a physician.</p> <p><b>If swallowed:</b> rinse the affected person's mouth. Do not induce vomiting. Consult a physician.</p>
4.2	<b>Most important acute and delayed symptoms and effects:</b> see section 11
4.3	<b>Instruction for immediate medical attention and special treatment:</b> apply symptomatic treatment.

<b>5.</b>	<b>SECTION 5: FIRE-FIGHTING MEASURES</b>
5.1	<p>Non-flammable. Use extinguishing agents appropriate to the circumstances of the fire and the surrounding environment.</p> <p><b>Extinguishing agents:</b> suitable: CO<sub>2</sub>, powder, foam, water spray Extinguishing agents unsuitable: water jet</p>
5.2	<b>Special hazards arising from the substance or mixture:</b> The substance is flammable. Exposure to flames or heat may cause an increase in pressure and rupture of sealed packages. Cool products at risk of overheating by spraying water. In case of fire, dense smoke may be produced. Avoid inhaling decomposition products of combustion.
5.3	<b>Instructions for firefighters:</b> Use a positive pressure self-contained breathing apparatus and full protective clothing.
5.4	<b>Other information:</b> not available

<b>6.</b>	<b>SECTION 6: MEASURES IN THE EVENT OF ACCIDENTAL SPILLAGE</b>
6.1	<p><b>Measures to protect persons, protective equipment and emergency procedures:</b></p> <p>For personnel other than emergency responders: No smoking. Remove all sources of ignition. Ensure good ventilation. Avoid contact with eyes and skin. Spilled material on the ground poses a slipping hazard. Follow the instructions in sections 7 and 8.</p> <p>For emergency responders: No smoking. Remove all sources of ignition. Ensure good ventilation. Avoid contact with eyes and skin. Spilled material on the ground poses a risk of slipping. Follow the instructions in sections 7 and 8.</p>
6.2	<b>Environmental precautions:</b> prevent leakage into drains, soil, surface water and groundwater. At more extensive spillage into the environment, follow local regulations (Water Act) and contact the relevant environmental departments of local authorities or the Czech Environmental Inspectorate.
6.3	<b>Methods and materials for containment and for cleaning:</b> Ensure good ventilation. Allow spillage to soak into inert, non-flammable porous material (e.g. sand, diatomaceous earth, soil), place in a closed container and dispose of in accordance with current legislation (section 13). wash the contaminated area with plenty of water.
6.4	<b>Reference to other sections:</b> sections 7, 8 and 13

<b>7.</b>	<b>SECTION 7: HANDLING AND STORAGE</b>
7.1	<p>Work in accordance with the instructions for use. No special protective measures are necessary when following it.</p> <p><b>Precautions for safe handling:</b> Avoid concentrations exceeding the maximum permissible limits (NPK-P) for working air. Ensure good ventilation of the room. Keep tightly closed, in an upright position. Avoid contact with eyes and skin.</p> <p><b>General hygiene principles:</b> Do not eat, drink or smoke in the workplace; wash hands after use. Remove soiled clothing and protective equipment before entering eating areas.</p>
7.2	<b>Conditions for the safe storage of substances and mixtures, including incompatible substances and mixtures:</b>

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7.3 Store in the original packaging, tightly closed, in an upright position. Store in dry, cool, covered, well-ventilated warehouses. Protect from direct sunlight. Protect from heat, hot surfaces, sparks, open flames and other sources of ignition. No smoking. Store separately from acids, alkalis and oxidizing agents.  
**Specific end use(s):** cosmetic raw material

**8. SECTION 8: EXPOSURE LIMITATION/PERSONAL PROTECTIVE EQUIPMENT**

8.1 **Control parameters:**  
Exposure limits according to Government Regulation No. 41/2020 Coll. as amended: not set

name of the substance (ingredient)	CAS	PEL/NPK-P (mg/m <sup>3</sup> )	Notes	Conversion factor to ppm
-	-	-	-	-

Note: I - irritates mucous membranes (eyes, respiratory tract) or skin, D - significant skin penetration during exposure, P - serious late effects cannot be ruled out for the substance

Exposure limits according to Commission Directive 2000/39/EC as amended: not set

Name of substance (constituent)	CAS	TWA / 8 hours		STEL / short time		Note
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
-	-	-	-	-	-	-

Limit values for urine biological exposure test indicators according to Decree No 432/2003 Coll. as amended later legislation: not specified

DNELs and PNECs for substances:

Cineol (ECHA):

DNEL:

Staff: Long-term exposure - systemic effects, Inhalation: 7.05 mg/m<sup>3</sup>

Staff: Long-term exposure - systemic effects, Dermal: 2 mg/kg bw/day General public: Long-term exposure - systemic effects, Inhalation: 1.74 mg/m<sup>3</sup>

General public: Long-term exposure - systemic effects, Dermal: 1 mg/kg bw/day General public:

Long-term exposure - systemic effects, Oral: 600 mg/kg bw/day PNEC:

Hazard to aquatic organisms: Drinking water: 57 µg/l, Seawater: 5,7 µg/l, Water - sporadic spills: n/a, Sewage treatment plant: 10 mg/l, Sediment (drinking water): 1,425 mg/kg dry weight of sediment, Sediment (seawater): 0,142 mg/kg dry weight of sediment

Hazard to terrestrial organisms: Soil: 0,25 mg/kg soil dry matter Hazard to predators: Secondary poisoning, Oral: 40 mg/kg food

(R)-p-mentha-1,8-dial

DNEL:

Staff: Long-term exposure - systemic effects, Inhalation: 66.7 mg/m<sup>3</sup>

Staff: Long-term exposure - systemic effects, Dermal: 9.5 mg/kg bw/day General public: Long-term exposure - systemic effects, Inhalation: 16.6 mg/m<sup>3</sup>

General public: Long-term exposure - systemic effects, Dermal: 4,8 mg/kg bw/day General public:

Long-term exposure - systemic effects, Oral: 4,8 mg/kg bw/day PNEC:

Hazard to aquatic organisms: Drinking water: 14 µg/l, Seawater: 1.4 µg/l, Water - sporadic spills: no hazard, Sewage treatment plant: 1.8 mg/l, Sediment (drinking water): 3.85 mg/kg dry weight of sediment, Sediment (seawater): 3.85 mg/kg dry weight of sediment

Hazard to terrestrial organisms: Soil: 0,763 mg/kg soil dry weight

Hazard to predators: Secondary poisoning, Oral: 133 mg/kg food

DNEL and PNEC values for the other components are not available.

8.2 **Limiting exposure:**

8.2.1 **Appropriate technical checks:** Observe the usual occupational health precautions and in particular good ventilation. **Personal protective measures including personal protective equipment:** the personal protective equipment used must comply with Government Regulation 495/2001 Coll.

8.2.2 **Eye protection:** safety glasses complying with EN 166

**Hand protection:** protective gloves complying with EN 374. The choice of suitable gloves does not depend only on material, but also on other features, quality and varies from manufacturer to manufacturer. Follow the guidelines regarding permeability and

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8.2.3	<p>penetration times provided by the glove supplier. Also consider the specific local conditions under which the product is used.</p> <p><b>Body protection:</b> wear suitable protective clothing</p> <p><b>Respiratory protection:</b> not necessary in normal use. In case of insufficient ventilation: filter complying with EN 141</p> <p><b>General hygiene and protective measures:</b></p> <p>Use normal precautions when handling chemicals. Do not eat, drink or smoke when handling the substance. Avoid contamination of eyes and skin. Wash hands before breaks. Do not wash your eyes or touch them with dirty hands. Store work clothes separately.</p> <p>Thermal hazard: none during normal handling</p> <p><b>Limiting environmental exposure:</b> avoid leakage into the environment</p>
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<b>9.</b>	<b>SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES</b>	
9.1	<b>Information on basic physical and chemical properties:</b>	
	Appearance:	state (at 20 °C): liquid, colour: colourless to light Yellow
	odour (smell):	eucalyptus scent
	odour threshold (not applicable to gases):	information not available
	melting point / freezing point (not applicable to gases):	information not available
	initial boiling point and boiling point range:	information not available
	flammability (gases, liquids, solids):	flammable liquid
	lower and upper explosive limit (not applicable for solids):	not explosive
	flash point (not applicable to gases, aerosols, solids):	42 C°
	auto-ignition temperature (gases and liquids):	information not available
	decomposition temperature:	information not available
	pH:	information is not available, cannot be measured
	kinematic viscosity (liquids):	information not available
	Solubility:	insoluble in water
	n-octanol/water partition coefficient (logarithmic value):	information not available
	steam pressure:	information not available
	density and/or relative density at 20 °C (liquids and solids):	Approximately 0.911
	relative vapour density (air=1) (gases and liquids):	information not available
	evaporation rate:	information not available
	characteristics of particles (solids):	not applicable
	explosive properties:	does not have a chemical structure characteristic of explosive properties
	oxidation properties:	has no chemical structure with excess oxygen or known structural groups correlated with a tendency to exothermic reaction with combustible material
9.2	<b>Further information:</b>	not

<b>10.</b>	<b>SECTION 10: STABILITY AND REACTIVITY</b>	
10.1	<b>Reactivity:</b> not reactive	
10.2	<b>Chemical stability:</b> stable under recommended handling and storage (<15°C) (Section 7).	
10.3	<b>Potential for hazardous reactions:</b> not known	
10.4	<b>Conditions to avoid:</b> open flame, sparks	
10.5	<b>Incompatible materials:</b> strong oxidizing agents	
10.6	<b>Hazardous decomposition products:</b> does not decompose under normal conditions	

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<b>11.</b>	<b>SECTION 11: TOXICOLOGICAL INFORMATION</b>
<b>11.1</b>	<b>Information on toxicological effects:</b>
	<p>a) acute toxicity:</p> <ul style="list-style-type: none"> <li>- LD50 orally, rat (mg/kg): Cineol: 4 500; (R)-p-mentha-1,8-diene: 4 400</li> <li>- LD50 dermal, rabbit (mg/kg): Not available</li> <li>- LC50 inhalation, rat (mg/L): available Irritating to skin.</li> </ul> <p>b) skin corrosivity/irritation: to skin.</p> <p>c) serious eye damage/irritation: Based on available data, the criteria for classification are not met</p> <p>d) respiratory sensitisation/skin sensitisation: Based on available data, the criteria for classification are not met May cause an allergic skin reaction. on the basis of available data the criteria for classification are not met</p> <p>e) mutagenicity in germ cells: not met on the basis of available data the criteria for classification are not met</p> <p>f) carcinogenicity: not met on the basis of available data the criteria for classification are not met</p> <p>g) reproductive toxicity: are not met</p> <p>h) toxicity to specific target organs - one-time exposure: the criteria for classification are not met on the basis of the available data</p> <p>i) toxicity to specific target organs - repeated exposure: Based on available data, the criteria for classification are not met</p> <p>j) inhalation hazard: If swallowed and inhaled, may cause death.</p> <p><b>Information on likely routes of exposure:</b> eye contact, skin contact, ingestion, inhalation</p> <p><b>Symptoms corresponding to physical, chemical and toxicological properties:</b></p> <ul style="list-style-type: none"> <li>- in contact with skin: possible irritation</li> <li>- in contact with eyes: possible transient irritation</li> <li>- when inhaled (large amounts): nausea</li> </ul> <p><b>Delayed and immediate effects and chronic effects of short- and long-term exposure:</b> not known</p> <p><b>Interactive effects:</b> not known</p> <p>Information on mixtures compared to information on substances: not relevant</p> <p><b>Other information:</b> The substance does not meet the criteria for substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.</p>

<b>12.</b>	<b>SECTION 12: ENVIRONMENTAL INFORMATION</b>																								
<b>12.1</b>	<p><b>Toxicity:</b> Based on classification, the substance is highly toxic to aquatic organisms both acutely and chronically.</p> <table border="1"> <tr> <td>acute toxicity: organisms</td> <td>LC50, fish, 96 hEC50</td> <td>, crustaceans, 48 hEC50</td> <td>, algae, 72 h other</td> </tr> <tr> <td></td> <td>Cineol 57 mg/L</td> <td>n.d.</td> <td>n/a</td> </tr> <tr> <td></td> <td>(R)-p-mentha-1,8-NOEC : 0.059 mg/L</td> <td>NOEC : 80 µg/L</td> <td>Data not available</td> </tr> <tr> <td></td> <td>dienLOEC : 0.19 mg/L</td> <td>LLOEC : 173 µg/L</td> <td></td> </tr> <tr> <td></td> <td>LC50: 0.41 mg/L</td> <td>LEC50 : 153 µg/L</td> <td></td> </tr> </table> <p>Services</p> <table border="1"> <tr> <td>chronic toxicity: organisms</td> <td>Fish</td> <td>crustaceans/algae/aquatic plants</td> <td>other</td> </tr> </table>	acute toxicity: organisms	LC50, fish, 96 hEC50	, crustaceans, 48 hEC50	, algae, 72 h other		Cineol 57 mg/L	n.d.	n/a		(R)-p-mentha-1,8-NOEC : 0.059 mg/L	NOEC : 80 µg/L	Data not available		dienLOEC : 0.19 mg/L	LLOEC : 173 µg/L			LC50: 0.41 mg/L	LEC50 : 153 µg/L		chronic toxicity: organisms	Fish	crustaceans/algae/aquatic plants	other
acute toxicity: organisms	LC50, fish, 96 hEC50	, crustaceans, 48 hEC50	, algae, 72 h other																						
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chronic toxicity: organisms	Fish	crustaceans/algae/aquatic plants	other																						
<b>12.2</b>	<b>Persistence and degradability:</b>																								
	<p>Persistence:</p> <p>Degradability of substances in sewage treatment plants: not determined</p> <p>Degradability: easily degradable</p>																								
<b>12.3</b>	<b>Bioaccumulation potential:</b> data not available, not determined																								
<b>12.4</b>	<b>Mobility in soil:</b> data not available, not determined																								
<b>12.5</b>	<b>Results of PBT and vPvB assessment:</b> the substance is not assessed as PBT and vPvB																								
<b>12.6</b>	<b>Endocrine disrupting properties:</b> with respect to non-target organisms, the substance has no endocrine disrupting properties because it does not meet the criteria set out in Annex B Regulation (EU) 2017/2100.																								
<b>12.7</b>	<b>Other adverse effects:</b> none																								

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<b>13.</b>	<b>SECTION 13: DISPOSAL INSTRUCTIONS</b>
13.1	<p><b>Waste management methods:</b> Suitable methods for the disposal of the substance or mixture and contaminated packaging: Dispose of the waste in accordance with the applicable waste management legislation and hand it over to an authorised person. If possible, prefer recycling to disposal.</p>
13.1.1	<b>Product/packaging removal:</b>
13.1.2	<p><b>Information relevant to waste management:</b> Physical/chemical properties that may affect waste management: not known Avoidance of waste disposal via sewerage: do not dispose of via sewerage Special precautions for recommended waste management (only for disposal of large quantities): none</p> <p><b>Waste legislation:</b> Act No. 185/2001 Coll. on Waste, as amended Decree No. 381/2001 Coll., laying down the waste catalogue, as amended</p>

<b>14.</b>	<b>SECTION 14: TRANSPORT INFORMATION</b>		
	Special precautions: none Transport classification:		
	<b>ADR/RID:</b>	<b>ICAO/IATA:</b>	<b>IMDG:</b>
14.1.	UN number or ID: 1169	UN number: 1169	UN number: 1169
14.2.	The official (UN) name for Transportation:	The official (UN) name for Transportation:	The official (UN) name for Transportation:
14.3.	EXTRACTS AROMATIC, LIQUID. ENVIRONMENTALLY HAZARDOUS. Hazard class(es) for shipping: 3 Classification code: F1	EXTRACTS AROMATIC, LIQUID. ENVIRONMENTALLY HAZARDOUS. Hazard class(es) for shipping: 3	EXTRACTS AROMATIC, LIQUID. ENVIRONMENTALLY HAZARDOUS. Hazard class(es) for shipping: 3
14.4.	Packaging group: III Limited quantity: 5 L Code for tunnel restrictions: D/E	Packaging group: III	Packaging group: III Limited quantity: 5 L
14.5.	Environmental hazard: contains substances hazardous to the environment Environment: d-Limonen Safety mark: fish and tree		Marine pollutant: yes Symbol (fish and tree) EMS: F-E, S-D
14.6	Special precautions for users: none		
14.7	The product is not intended for carriage as bulk cargo according to IMO instruments.		

<b>15.</b>	<b>SECTION 15: INFORMATION ON REGULATIONS</b>
15.1	<p><b>Safety, health and environmental regulations/specific legislation relating to the substance or mixture:</b> Regulation (EC) No 1907/2006 concerning the Registration, Authorisation and Restriction of Chemicals (REACH), as amended. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), as amended. Act No. 350/2011 Coll. on chemicals and chemical mixtures, including implementing regulations, as amended. Act No. 102/2001 Coll. of the Czech Republic on General Security, as amended. Act No. 258/2000 Coll. on the Protection of Public Health, as amended. Government Decree No. 361/2007 Coll. of the Czech Republic laying down the conditions for the protection of the health of employees at work. Act No. 262/2006 Coll. of the Czech Republic, Labour Code, as amended. Act No. 201/2012 Coll. on Air Protection, as amended. Act No. 254/2001 Coll. on Water, as amended.</p>
15.2	<b>Chemical safety assessment:</b> not performed

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**16. SECTION 16: OTHER INFORMATION****16.1 List of H-phrases, class codes and hazard categories referred to in Sections 2 and 3:**

H226 Flammable liquid and vapour. H302 Harmful if swallowed.  
H304 May cause death if swallowed and enters the respiratory tract.  
H315 Irritating to skin.  
H317 May cause an allergic skin reaction.  
H319 Causes severe eye irritation.  
H400 Very toxic to aquatic life.  
H410 Highly toxic to aquatic organisms, with long-lasting effects.  
H411 Toxic to aquatic life with long-lasting effects.

Flam. Liq. 1,2,3 - flammable liquid, category 1,2,3 Flam.  
Sol. 1,2,3 - flammable solid, category 1,2,3 Acute Tox.  
1,2,3,4 - acute toxicity, category 1,2,3,4 Skin Corr.1 - skin corrosion, category 1  
Skin Irrit. 2 - skin irritation, category 2 Skin  
Sens. 1 - skin sensitisation, category 1 Eye Irrit.  
2 - serious eye irritation, category 2  
Eye Damage 1 - serious eye damage, category 1  
Carc. 2 - carcinogenicity, category 2  
Mutagenicity in germ cells, category 2 Repr.2 - Reproductive toxicity, category 2  
Aquatic Chronic 1,2,3,4 - hazardous to the aquatic environment - chronic, category 1,2,3,4 Asp. Tox. 1 - hazardous by inhalation, category 1

**List of abbreviations used:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
Carriage of Dangerous Goods by Road)  
ECHA: European Chemicals Agency  
EMS: Environmental Management System  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization: Technical Guidelines for the Safe Transport of Dangerous Goods by Air  
(International Civil Aviation Organization: Technical Instructions for the Safe Transport of Dangerous Goods by Air)  
IMDG: International Maritime Dangerous Goods (IMDG) DNEL: Derived No-Effect Level EC50: Effective Concentration for the inhibition of 50% of test organisms  
EL50: Effective dosage for inhibition of 50% of test organisms  
IC50: Inhibitory concentration for 50% of test organisms LC50: Lethal concentration for 50% of test organisms LD50: Lethal dose for 50% of test organisms  
LL50: Lethal dosage for 50% of test organisms LQ: Limited Quantity  
LOEC: Lowest Observed Effect Concentration NOEC: No Observed Effect Concentration  
NOEL: No Observed Effect Level  
NOELR: No Observed Effect Loading Rate  
NPK-P: Maximum Permissible Concentration in Working Climate  
PBT: persistent, bioaccumulative and toxic substances  
PEL: Permissible Exposure Limit  
PNEC: Predicted No Effect Concentration RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit TWA: Time-Weighted Average  
vPvB: very persistent and very bioaccumulative



## SAFETY DATA SHEET

under Regulation (EC) No 1907/2006 of the European Parliament and of the Council, as

Release date: 29.5.2023

amended by Regulation (EU) 2020/878

Replaces.

Date of revision.

Product name:

**EUCALYPTUS RADIATA ESSENTIAL OIL**

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**16.2 Guidelines for training:**

Persons handling the product must be instructed on the risks involved in handling and on the requirements for health and environmental protection (see relevant provisions of the Labour Code).

**Access to information:**

Every employer must, in accordance with Article 35 of Regulation (EC) No 1907/2006, give access to the information in the safety data sheet to all workers who use the product or are exposed to it during their work, as well as to the representatives of those workers.

The information contained in this Safety Data Sheet relates only to the product mentioned and corresponds to the state of knowledge and experience at the date of its preparation. The data will be updated as necessary. This sheet is not a product specification or an instruction for use. The manufacturer accepts no liability for any use other than that recommended. The user is responsible for handling according to existing legal and technical regulations.

**16.3 Information on the sources of data used to compile the safety data sheet:** supplier's safety data sheet. The classification of the substance was taken from the supplier.

Contact details of the professionally competent person: Ing. Markéta Benáková (e-mail: chemlegislativa@gmail.com)

**16.4 Changes from previous edition:** none

Changes made during the revision of the safety data sheet shall be indicated in italics.

**SAFETY DATA SHEET**

according to Regulation (EC) No 1907/2006 of the European Parliament and of the Council, as

amended by Regulation (EU) 2020/878

Replaces.

Release date: 12.9.2022


Date of revision: -

Product name:

**BLOOD ORANGE ESSENTIAL OIL**

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1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY/UNDERTAKING	
1.1	<p><b>Product identifier:</b> Name: <b>BLOOD ORANGE ESSENTIAL OIL</b> Orange, sweet, ext. CAS: 8028-48-6 (OTHER: CITRUS AURANTIUM DULCIS PEEL OIL EXPRESSED)</p>
1.2	<p>registration number: dumb <b>Relevant intended uses of the substance:</b> cosmetic raw material for industrial use <b>Not recommended use:</b> not for internal use</p>
1.3	<p><b>Details of the supplier of the safety data sheet:</b> <b>Full address:</b> Kateřina Kloudová, DiS. Lozická 1561, 190 16 Prague - Újezd nad Lesy Phone: +420 602 329 505 E-mail of the <b>competent person responsible for safety list:</b> katerina@aroma-atelier.cz</p>
1.4	<p><b>Emergency telephone number:</b> (information for health risks only - acute poisoning of humans and animals) <b>+420 224 919 293, +420 224 915 402 (24 hours)</b> Toxicology Information Centre, Na Bojišti 1, Prague 2</p>

2. SECTION 2: HAZARD IDENTIFICATION	
2.1	<p><b>Classification of the substance according to Regulation (EC) 1272/2008 as amended: Flam. Liq. 3, H226</b> <b>Asp. Tox. 1, H304</b> <b>Skin Irrit. 2, H315</b> <b>Skin Sens. 1, H317</b> <b>Aquatic Chronic 2, H411</b></p> <p>Most serious adverse effects: - physical: the substance is classified as a flammable liquid - on human health: The substance may cause death if swallowed and enters the respiratory tract. Irritating to skin, may cause allergic skin reaction. - Environmental: the substance is classified as chronically toxic to aquatic organisms.</p>
2.2	<p><b>Elements of labelling within the meaning of Regulation (EC) No 1272/2008 as amended:</b> <b>Hazard warning symbol:</b>  <b>Signal word: Danger</b></p> <p><b>Standard hazard sentences:</b> H226 Flammable liquid and vapour. H304 May cause death if swallowed and enters the respiratory tract. H315 Irritating to skin. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long-lasting effects.</p> <p><b>Instructions for safe handling:</b> P210 Protect from heat, hot surfaces, sparks, open flames and other sources of ignition. No smoking. P273 Avoid release to the environment. P280 Wear protective gloves. P301+P330+P331 IF INGESTED: Rinse mouth. DO NOT induce vomiting. P312 If you feel unwell, call the TOXIC INFORMATION CENTRE/physician. P302+P352 IN CASE OF CONTACT WITH SKIN: Wash with plenty of water/soap.</p>

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**The labelling of a package containing not more than 125 ml shall contain at least the following elements:**



**Danger.** May cause death if swallowed and enters the respiratory tract. May cause allergic skin reaction. IF swallowed: Rinse mouth. DO NOT induce vomiting. If you do not feel well, call the TOXIC INFORMATION CENTER/physician.

**Other applicable elements of the marking:**

Additional hazard information: names of dangerous ingredients: d-Limonene, Myrcene

2.3 **Other hazard:** The substance does not meet the criteria for PBT or vPvB substances in accordance with Annex XIII, Regulation (EC) No 1907/2006 (REACH), as amended. The substance does not meet the criteria for substances with intrusive properties  
endocrine activity in accordance with the criteria laid down in Commission Delegated Regulation (EU) 2017/2100; or in Commission Regulation (EU) 2018/605.

<b>3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS</b>			
<b>3.1.</b>	UVCB substance (of unknown or variable composition)		Classification according to Regulation (EC) No 1272/2008
Chemical name	content in %hm.	Index number CAS number, EC number Registration number	Class code, Hazard category, H-phrases*, Specific concentration limit, Multiplication factor
(R)-p-menta-1,8-diene d-Limonene	≤ 95,2	dumb 5989-27-5; 227-813-5 n/a	Flam. Liq., H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400, M Acute = 1 Aquatic Chronic 1, H410, M Chronic = 1
7-methyl-3-methylocta-1,6-diene Myrcene	1-2,5	dumb 123-35-3; 204-6225 n/a	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400, M Acute = 1 Aquatic Chronic 1, H410, M Chronic = 1
2,6,6-trimethylbicyklo[3.1.1]hept-2-en Alpha-Pinene	≤ 1	dumb 80-56-8; 201-291-9 n/a	Flam. Liq., H226 Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400, M Acute = 1 Aquatic Chronic 1, H410, M Chronic = 1
3,7-dimethylocta-1,6-dien-3-ol Linalool	≤ 0,8	603-235-00-2 78-70-6; 201-134-4 n/a	Skin Irrit.2, H315 Skin Sens.1B, H317 Eye Irrit.2, H319
3,7-dimethyl-2,6-dienal Citral	≤ 0,7	dumb 5392-40-5; 226-394-6 n/a	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319
2,6-Dimetyl-2,6-oktadien-8-ol Geraniol	≤ 0,1	dumb 106-24-1; 203-377-1 n/a	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318

Notes:

\* See Section 16 for the full text of the H-phrases, class codes and hazard categories listed here.

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<b>4.</b>	<b>SECTION 4: FIRST AID INSTRUCTIONS</b>
4.1	<p><b>Description of first aid:</b></p> <p><b>General instructions:</b> if you experience any health problems or if you are in doubt, notify your doctor and provide him/her with the information in this MSDS or on the product packaging. In case of unconsciousness, place the victim in the stabilized position on the side with the head slightly inclined. Never administer anything by mouth to an unconscious person. <b>In case of inhalation:</b> in case of inhalation of vapours, discontinue exposure, move the affected person to fresh air, ensure physical and mental calm. Consult a physician.</p> <p><b>In contact with skin:</b> remove contaminated clothing, wash affected skin with soap and water, rinse with water. <b>In case of contact with eyes:</b> Remove contact lenses if the affected person uses them. Rinse immediately with clean lukewarm running water for at least 15 minutes with eyelids wide open, especially the area under the eyelids. When persistent eye irritation, consult a physician.</p> <p><b>If swallowed:</b> rinse the affected person's mouth. Do not induce vomiting. Consult a physician.</p>
4.2	<b>Most important acute and delayed symptoms and effects:</b> see section 11
4.3	<b>Instruction for immediate medical attention and special treatment:</b> apply symptomatic treatment.

<b>5.</b>	<b>SECTION 5: FIRE-FIGHTING MEASURES</b>
5.1	<p>Non-flammable. Use extinguishing agents appropriate to the circumstances of the fire and the surrounding environment.</p> <p><b>Extinguishing agents:</b> suitable: CO<sub>2</sub>, powder, foam, water spray          Extinguishing agents unsuitable: water jet</p>
5.2	<b>Special hazards arising from the substance or mixture:</b> The substance is flammable. Exposure to flames or heat may cause an increase in pressure and rupture of sealed packages. Cool products at risk of overheating by spraying water. In case of fire, dense smoke may be produced. Avoid inhaling decomposition products of combustion.
5.3	<b>Instructions for firefighters:</b> Use a positive pressure self-contained breathing apparatus and full protective clothing.
5.4	<b>Other information:</b> not available

<b>6.</b>	<b>SECTION 6: MEASURES IN THE EVENT OF ACCIDENTAL SPILLAGE</b>
6.1	<p><b>Measures to protect persons, protective equipment and emergency procedures:</b></p> <p>For personnel other than emergency responders:          No smoking. Remove all sources of ignition. Ensure good ventilation. Avoid contact with eyes and skin. Spilled material on the ground poses a risk of slipping. Follow the instructions in sections 7 and 8.</p> <p>For emergency responders:          No smoking. Remove all sources of ignition. Ensure good ventilation. Avoid contact with eyes and skin. Spilled material on the ground poses a risk of slipping. Follow the instructions in sections 7 and 8.</p>
6.2	<b>Environmental precautions:</b> prevent leakage into drains, soil, surface water and groundwater. At more extensive spillage into the environment, follow local regulations (Water Act) and contact the relevant environmental departments of local authorities or the Czech Environmental Inspectorate.
6.3	<b>Methods and materials for containment and for cleaning:</b> Ensure good ventilation. Allow spillage to soak into inert, non-flammable porous material (e.g. sand, diatomaceous earth, soil), place in a closed container and dispose of in accordance with current legislation (section 13). wash the contaminated area with plenty of water.
6.4	<b>Reference to other sections:</b> sections 7, 8 and 13

<b>7.</b>	<b>SECTION 7: HANDLING AND STORAGE</b>
7.1	<p>Work in accordance with the instructions for use. No special protective measures are necessary when following it.</p> <p><b>Precautions for safe handling:</b>          Avoid concentrations exceeding the maximum permissible limits (NPK-P) for working air. Ensure good ventilation of the room. Keep tightly closed, in an upright position. Avoid contact with eyes and skin.</p> <p><b>General hygiene principles:</b>          Do not eat, drink or smoke in the workplace; wash hands after use. Remove soiled clothing and protective equipment before entering eating areas.</p>
7.2	<b>Conditions for the safe storage of substances and mixtures, including incompatible substances and mixtures:</b>

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Store in the original packaging, tightly sealed, in an upright position. Store in dry, cool, covered, well-ventilated warehouses. Store at temperatures below 15°C. Protect from direct sunlight. Protect from heat, hot surfaces, sparks, open flames and other sources of ignition. No smoking. Store separately from acids, alkalis and oxidizing agents.

7.3 **Specific end use(s):** cosmetic raw material

**8. SECTION 8: EXPOSURE LIMITATION/PERSONAL PROTECTIVE EQUIPMENT**

8.1 **Control parameters:**  
Exposure limits according to Government Regulation No. 41/2020 Coll. as amended: not set

name of the substance (ingredient)	CAS	PEL/NPK-P (mg/m ) <sup>3</sup>	Notes	Conversion factor to ppm
-	-	-	-	-

Note: I - irritates mucous membranes (eyes, respiratory tract) or skin, D - significant skin penetration during exposure, P - serious late effects cannot be ruled out for the substance

Exposure limits according to Commission Directive 2000/39/EC as amended: not set

Name of substance (constituent)	CAS	TWA / 8 hours		STEL / short time		Note
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
-	-	-	-	-	-	-

Limit values for urine bioassay indicators according to Decree No 432/2003 Coll., as amended: not set

DNELs and PNECs for substances:

(R)-p-mentha-1,8-dial

DNEL:

Staff: Long-term exposure - systemic effects, Inhalation: 66.7 mg/m<sup>3</sup>

Staff: Long-term exposure - systemic effects, Dermal: 9.5 mg/kg bw/day General public: Long-term exposure - systemic effects, Inhalation: 16.6 mg/m<sup>3</sup>

General public: Long-term exposure - systemic effects, Dermal: 4,8 mg/kg bw/day General public:

Long-term exposure - systemic effects, Oral: 4,8 mg/kg bw/day PNEC:

Hazard to aquatic organisms: Drinking water: 14 µg/l, Seawater: 1.4 µg/l, Water - sporadic spills: no hazard, Sewage treatment plant: 1.8 mg/l, Sediment (drinking water): 3.85 mg/kg dry weight of sediment, Sediment (seawater): 3.85 mg/kg dry weight of sediment

Hazard to terrestrial organisms: Soil: 0,763 mg/kg soil dry weight

Hazard to predators: Secondary poisoning, Oral: 133 mg/kg food

DNEL and PNEC values for the other components are not available.

8.2 **Limiting exposure:**

8.2.1 **Appropriate technical checks:** Observe the usual occupational health precautions and in particular good ventilation.

8.2.2 **Personal protective equipment including personal protective equipment:** personal protective equipment used must comply with Government Regulation 495/2001 Coll.

**Eye protection:** safety glasses complying with EN 166

**Hand protection:** protective gloves complying with EN 374. The choice of suitable gloves does not depend only on material, but also on other features, quality and varies from manufacturer to manufacturer. Follow the guidelines regarding permeability and penetration times provided by the glove supplier. Also take into account the specific local conditions under which in which the product is used.

**Body protection:** wear suitable protective clothing

**Respiratory protection:** not necessary in normal use. In case of inadequate ventilation: standard compliant filter EN 141

**General hygiene and protective measures:**

Use normal precautions when handling chemicals. Do not eat, drink, smoke when handling the substance.

Avoid splashing eyes and skin. Wash your hands before breaks. Do not rub your eyes or touch your eyes with dirty hands.

with your hands. Store work clothes separately.

Thermal hazard: none during normal handling

8.2.3 **Limitation of environmental exposure:** avoid leakage into the environment

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<b>9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES</b>	
9.1	<b>Information on basic physical and chemical properties:</b>
	Appearance: state (at 20 °C): liquid, colour: red to dark Yellow
	odour (smell): smell orange
	odour threshold (not applicable to gases): information not available
	melting point / freezing point (not applicable to gases): information not available
	initial boiling point and boiling point range: approx. 170 °C ± 10 °C (1026 hPa)
	flammability (gases, liquids, solids): flammable liquid
	lower and upper explosive limit (not applicable for solids): not explosive
	flash point (not applicable to gases, aerosols, solids): 49 C°
	auto-ignition temperature (gases and liquids): approx. 235 °C
	decomposition temperature: information not available
	pH: information is not available, cannot be measured
	kinematic viscosity (liquids): information not available
	Solubility: insoluble in water, soluble in ethanol and oils
	n-octanol/water partition coefficient (logarithmic value): information not available
	steam pressure: 186,4 Pa (25°C )
	density and/or relative density at 20 °C (liquids and solids): information not available
	relative vapour density (air=1) (gases and liquids): information not available
	evaporation rate: information not available
	characteristics of particles (solids): not applicable
	explosive properties: does not have a chemical structure characteristic of explosive properties
	oxidation properties: does not have a chemical structure with excess oxygen or known structural groups correlated with tendency to exothermic reaction with combustible material
9.2	<b>Further information:</b> not

<b>10. SECTION 10: STABILITY AND REACTIVITY</b>	
10.1	<b>Reactivity:</b> not reactive
10.2	<b>Chemical stability:</b> stable under recommended handling and storage (<15°C) (Section 7).
10.3	<b>Potential for hazardous reactions:</b> not known
10.4	<b>Conditions to avoid:</b> open flame, sparks
10.5	<b>Incompatible materials:</b> strong oxidizing agents
10.6	<b>Hazardous decomposition products:</b> does not decompose under normal conditions

<b>11. SECTION 11: TOXICOLOGICAL INFORMATION</b>	
11.1	<b>Information on toxicological effects:</b>
	a) acute toxicity:
	- LD50 orally, rat (mg/kg): (R)-p-mentha-1,8-diene: 4 400
	- LD50 dermal, rabbit (mg/kg): data not available
	- LC50 inhalation, rat (mg/L): data not available
	b) skin corrosivity/irritation: Irritating to the skin.
	c) serious eye damage/irritation: Based on available data, the criteria for classification are not met
	d) respiratory sensitisation/skin sensitisation: Based on available data, the criteria for classification are not met
	sensitisation: May cause an allergic skin reaction.
	e) mutagenicity in germ cells: the criteria for classification are not met on the basis of the available data

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	<p>f) carcinogenicity: the criteria for classification are not met on the basis of the available data</p> <p>g) reproductive toxicity: the criteria for classification are not met on the basis of the available data</p> <p>h) toxicity to specific target organs of the available data</p> <p>- one-time exposure:</p> <p>i) Specific target organ toxicity - repeated exposure: the criteria for classification are not met on the basis of the available data</p> <p>j) inhalation hazard: Based on available data, the criteria for classification are not met if swallowed and inhaled, may cause death.</p>
	<p><b>Information on likely routes of exposure:</b> eye contact, skin contact, ingestion, inhalation</p> <p><b>Symptoms corresponding to physical, chemical and toxicological properties:</b></p> <p>- in contact with skin: possible irritation</p> <p>- in contact with eyes: possible transient irritation</p> <p>- when inhaled (large amounts): nausea</p> <p><b>Delayed and immediate effects and chronic effects of short- and long-term exposure:</b> not known</p> <p><b>Interactive effects:</b> not known</p> <p>Information on mixtures compared to information on substances: not relevant</p> <p><b>Other information:</b> The substance does not meet the criteria for substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.</p>

<b>12.</b>	<b>SECTION 12: ENVIRONMENTAL INFORMATION</b>			
12.1	<b>Toxicity:</b> Based on classification, the substance is chronically toxic to aquatic organisms. See section 16.			
	acute toxicity:	LC50, fish, 96 hEC50	, crustaceans, 48 hEC50	, algae, 72 h other organisms
	(R)-p-mentha-1,8-dien	8-< 1 mg/L0	,307 mg/L0	,149 mg/L n.a.
	Services			
	chronic toxicity:	Fish	crustaceans	algae/aquatic plants/other organisms
	(R)-p-mentha-1,8-dien	NOEC : 0.059 mg/L	NOEC : 80 µg/L	Data not available n.a.
	dien	LOEC : 0.19 mg/L	LOEC : 173 µg/L	
		LC50: 0.41 mg/L	LC50 :153 µg/L	
12.2	<b>Persistence and degradability:</b>			
	Persistence:			
	Degradability of substances in sewage treatment plants: not determined			
	Degradability: easily degradable			
12.3	<b>Bioaccumulation potential:</b> data not available, not determined			
12.4	<b>Mobility in soil:</b> data not available, not determined			
12.5	<b>Results of PBT and vPvB assessment:</b> the substance is not assessed as PBT and vPvB			
12.6	<b>Endocrine disrupting properties:</b> with respect to non-target organisms, the substance has no endocrine disrupting properties because it does not meet the criteria set out in Annex B Regulation (EU) 2017/2100.			
12.7	<b>Other adverse effects:</b> none			

<b>13.</b>	<b>SECTION 13: DISPOSAL INSTRUCTIONS</b>			
13.1	<b>Waste management methods:</b>			
	Suitable methods for the disposal of the substance or mixture and contaminated packaging:			
	Dispose of the waste in accordance with the applicable waste management legislation and hand it over to an authorised person. If possible, prefer recycling to disposal.			
13.1.1	<b>Product/packaging removal:</b>			
13.1.2	<b>Information relevant to waste management:</b>			
	Physical/chemical properties that may affect waste management: not known			
	Avoidance of waste disposal via sewerage: do not dispose of via sewerage			
	Special precautions for recommended waste management (only for disposal of large quantities): none			

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**Waste legislation:**

Act No. 185/2001 Coll. on Waste, as amended  
Decree No. 381/2001 Coll., laying down the waste catalogue, as amended

**14. SECTION 14: TRANSPORT INFORMATION**

	Special precautions: none		
	Transport classification:		
	<b>ADR/RID:</b>	<b>ICAO/IATA:</b>	<b>IMDG:</b>
14.1.	UN number or ID: 1169	UN number: 1169	UN number: 1169
14.2.	The official (UN) name for Transportation:	The official (UN) name for Transportation:	The official (UN) name for Transportation:
14.3.	EXTRACTS AROMATIC, LIQUID. ENVIRONMENTALLY HAZARDOUS. Transport hazard class(es): 3	EXTRACTS AROMATIC, LIQUID. ENVIRONMENTALLY HAZARDOUS. Transport hazard class(es): 3	EXTRACTS AROMATIC, LIQUID. ENVIRONMENTALLY HAZARDOUS. Transport hazard class(es): 3
14.4.	Classification code: F1 Packaging group: III Limited quantity: 5 L Code for tunnel restrictions: D/E	Packaging group: III	Packaging group: III Limited quantity: 5 L
14.5.	Environmental hazard: contains substances hazardous to the environment Environment: d-Limonen Safety mark: fish and tree		Marine pollutant: yes Symbol (fish and tree) EMS: F-E, S-D
14.6	Special precautions for users: none		
14.7	The product is not intended for carriage as bulk cargo according to IMO instruments.		

**15. SECTION 15: INFORMATION ON REGULATIONS**

15.1	<b>Safety, health and environmental regulations/specific legislation relating to the substance or mixture:</b> Regulation (EC) No 1907/2006 concerning the Registration, Authorisation and Restriction of Chemicals (REACH), as amended. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), as amended. Act No. 350/2011 Coll. on chemicals and chemical mixtures, including implementing regulations, as amended. Act No. 102/2001 Coll. of the Czech Republic on General Security, as amended. Act No. 258/2000 Coll. on the Protection of Public Health, as amended. Government Decree No. 361/2007 Coll. of the Czech Republic laying down the conditions for the protection of the health of employees at work. Act No. 262/2006 Coll. of the Czech Republic, Labour Code, as amended. Act No. 201/2012 Coll. on Air Protection, as amended. Act No. 254/2001 Coll. of the Czech Republic on Water, as amended.
15.2	<b>Chemical safety assessment:</b> not performed

**16. SECTION 16: OTHER INFORMATION**

16.1	<b>List of H-phrases, class codes and hazard categories referred to in sections 2 and 3:</b> H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May cause death if swallowed and enters the respiratory tract. H315 Irritating to skin. H317 May cause an allergic skin reaction. H319 Causes severe eye irritation. H400 Very toxic to aquatic life. H410 Highly toxic to aquatic organisms, with long-lasting effects.
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H411 Toxic to aquatic life with long-lasting effects.

Flam. Liq. 1,2,3 - flammable liquid, category 1,2,3

Flam. Sol. 1,2,3 - flammable solid, category 1,2,3

Acute Tox. 1,2,3,4 - acute toxicity, category 1,2,3,4

Skin Corr.1 - skin corrosion, category 1

Skin Irrit. 2 - skin irritation, category 2 Skin

Sens. 1 - skin sensitisation, category 1 Eye Irrit.

2 - serious eye irritation, category 2

Eye Damage 1 - serious eye damage, category 1

Carc. 2 - carcinogenicity, category 2

Mutagenicity in germ cells, category 2 Repr.2 -

Reproductive toxicity, category 2

Aquatic Chronic 1,2,3,4 - hazardous to the aquatic environment - chronic, category

1,2,3,4 Asp. Tox. 1 - hazardous by inhalation, category 1

**List of abbreviations used:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ECHA: European Chemicals Agency

EMS: Environmental Management System

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods (IMDG) DNEL: Derived No-Effect Level EC50: Effective

Concentration for the inhibition of 50% of test organisms

EL50: Effective dosage for inhibition of 50% of test organisms IC50:

Inhibition concentration for 50% of test organisms

LC50: Lethal concentration for 50% of test organisms LD50: Lethal

dose for 50% of test organisms

LL50: Lethal dosage for 50% of test organisms LQ: Limited

Quantity

LOEC: Lowest Observed Effect Concentration NOEC: No Observed Effect Concentration

NOEL: No Observed Effect Level

NOELR: No Observed Effect Loading Rate

NPK-P: Maximum Permissible Concentration in Working Climate PBT: Persistent, Bioaccumulative and Toxic

PEL: Permissible Exposure Limit

PNEC: Predicted No Effect Concentration RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit TWA: Time-Weighted Average

vPvB: very persistent and very bioaccumulative

**16.2 Guidelines for training:**

Persons handling the product must be instructed on the risks involved in handling and on the requirements for health and environmental protection (see relevant provisions of the Labour Code).

**Access to information:**

Every employer must, in accordance with Article 35 of Regulation (EC) No 1907/2006, give access to the information in the safety data sheet to all workers who use the product or are exposed to it during their work, as well as to the representatives of those workers.

The information contained in this Safety Data Sheet relates only to the product and corresponds to the state of knowledge and experience at the date of its preparation. The data will be updated as necessary. This sheet is not a product specification or

**SAFETY DATA SHEET**

**according to Regulation (EC) No 1907/2006 of the European Parliament and of the Council, as**

Release date: 12.9.2022

**amended by Regulation (EU) 2020/878**

Replaces.

Date of revision: -

Product name:

**BLOOD ORANGE ESSENTIAL OIL**

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instructions for use. The manufacturer accepts no liability for any use other than that recommended. The user is responsible for handling according to existing legal and technical regulations.

**Information on the sources of data used to compile the safety data sheet:** supplier's safety data sheet.

16.3 The classification of the substance was taken from the supplier.

\*Information in REACH dossier: based on WAF testing, the substance does not meet the criteria for Aquatic acute 1 classification and meets the criteria for Aquatic Chronic classification. The presence of other ingredients in the UVCB substance affects the behaviour and effects of Limonene (source: supplier's safety data sheet).

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16.4 **Changes from previous edition:** none

Changes made during the revision of the safety data sheet shall be indicated in italics.