

Certificate of Analysis

Product Name	EUCALYPTUS AUSTRALIANA OIL	
Product Code	OEEUCAAUST	
Batch Number	4531508	
Best Before End	January2027	
Identification	CAS No: 92201-64-4	
	EINECS No: 295-995-3	
PHYSICAL AND CHEM	ICAL CHARACTERISTIC	
	SPECIFICATION RANGE	RESULTS
Appearance	Liquid	Conforms
Colour	Clear - colourless	Conforms
Odour	Charcteristic	Conforms
Relative Density @ 20°C	0.900 _{- 0.925}	0.906
Refractive Index @ 20°C	1.457 - 1.470	1.462
Optical Rotation °	⁻¹ 0 to 10	+3.9
STORAGE AND SHELF	LIFE	
Storage	Store in tightly closed container with minimu dry place.	im headspace in a cool, dark and

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the Company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where Ekokoza s.r.o. make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.

CMR (Carcinogenic, mutagenic, reprotoxic) STATEMENT

We hereby confirm, to the best of our knowledge and from information received from our supplier, that the below mentioned product does not contain any CMR Substances.

However, due to the fact that we do not analyse the batches, we cannot guarantee any explicit assurance.

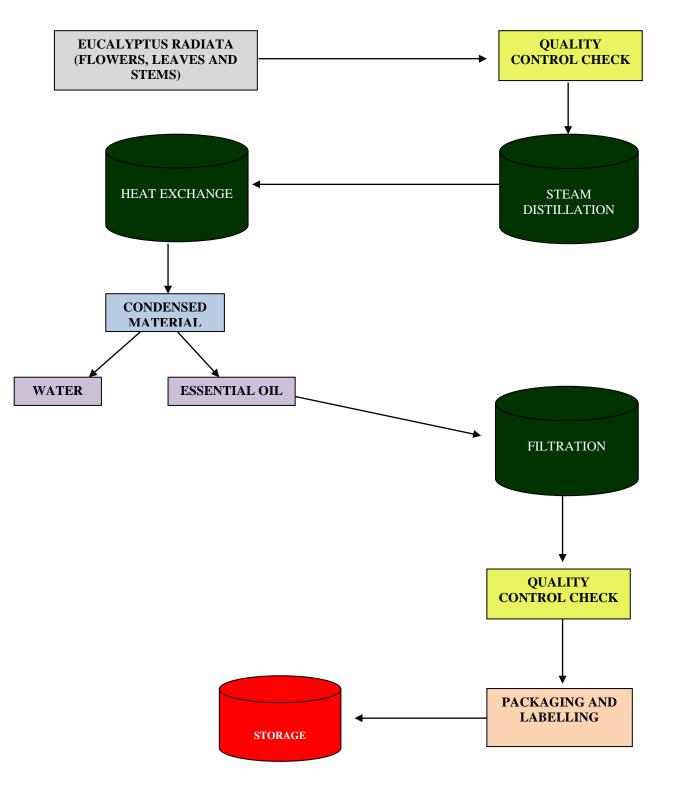
Product:

Eucalyptus Radiata Oil

12 May 2023



EUCALYPTUS AUSTRALIANA OIL FLOW CHART



SAFETY DATA SHEET EUCALYPTUS RADIATA OIL

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

1.1. Product identifier Product name	EUCALYPTUS RADIATA OIL	
Floduci name	EUCALTETUS RADIATA OIL	
Synonyms; trade names	Eucalyptus radiata flower/leaf/stem oil	
CAS number	92201-64-4	
EC number	295-995-3	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
Identified uses	Industrial, only for professional use	
1.3. Details of the supplier of the safety data sheet		
Supplier	Ekokoza s.r.o. Fryčovice 297 73945 Fryčovice eshop@ekokoza.cz +420605779993 IČ:07508247	

	Nouzové telefonní číslo: +420224919293 , +420224915402 (telefon 24hod/
1.4. Emergency telephone number	denně) Toxikologické informační středisko, Na Bojišti 1, 128 08 Praha2)

SECTION 2: Hazards identification			
	2.1. Classification of the substance or mixture		
Physical hazards	Classification (SI 2019 No. 720)		
Filysical hazarus	Flam. Liq. 3 - H226		
Health hazards	Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Repr. 2 - H361 Asp. Tox. 1 - H304		
Environmental hazards	Aquatic Chronic 1 - H410		
Human health	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May		
	be fatal if swallowed and enters airways.		
Environmental	Toxic to aquatic life with long lasting effects.		
Physicochemical	Flammable liquid and vapour		
2.2. Label elements			
EC number	295-995-3		
	Ekokoza s.r.o.		

Hazard pictograms







Signal word	Danger
Hazard statements	H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H361 Suspected of damaging fertility or the unborn child. H304 May be fatal if swallowed and enters airways. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P264 Wash contaminated skin thoroughly after handling. P273 Avoid release to the environment. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/ container in accordance with national regulations.
Contains	1, 8 cineole, Alpha Pinene, p-Cymene, (R)-p-mentha-1,8-diene, Beta Pinene, p-mentha-1,4- diene, Alpha Phellandrene, 7-methyl-3-methyleneocta-1,6-diene
Supplementary precautionary statements	 P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P261 Avoid breathing vapour/ spray. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P321 Specific treatment (see medical advice on this label). P331 Do NOT induce vomiting. P332+P313 If skin irritation occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P391 Collect spillage. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

2.3. Other hazards

SECTION 3: Composition/information on ingredients		
3.2. Mixtures		
1, 8 cineole		≤75%
CAS number: 470-82-6	EC number: 207-431-5	
Classification		
Flam. Liq. 3 - H226		
Skin Sens. 1B - H317		
Alpha Pinene		≤14%
CAS number: 80-56-8	EC number: 201-291-9	
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		
Flam. Liq. 3 - H226		
Acute Tox. 4 - H302		
Skin Irrit. 2 - H315		
Skin Sens. 1 - H317		
Asp. Tox. 1 - H304		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
p-menth-1-en-8-ol		≤6%
CAS number: 98-55-5	EC number: 202-680-6	
Classification		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
p-Cymene		≤6%
CAS number: 99-87-6	EC number: 202-796-7	
Classification		
Flam. Liq. 3 - H226		
Repr. 2 - H361		
Asp. Tox. 1 - H304		
Aquatic Chronic 2 - H411		

(R)-p-mentha-1,8-diene		≤12%
CAS number: 5989-27-5	EC number: 227-813-5	
M factor (Acute) = 1		
Classification		
Flam. Liq. 3 - H226		
Skin Irrit. 2 - H315		
Skin Sens. 1 - H317		
Asp. Tox. 1 - H304		
Aquatic Acute 1 - H400		
Aquatic Chronic 3 - H412		
p-mentha-1,4-diene		≤8%
CAS number: 99-85-4	EC number: 202-794-6	
Classification		
Flam. Liq. 3 - H226		
Repr. 2 - H361		
Asp. Tox. 1 - H304		
Beta Pinene		≤5%
CAS number: 127-91-3	EC number: 242-060-2	
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		
Flam. Liq. 3 - H226		
Skin Irrit. 2 - H315		
Skin Sens. 1 - H317		
Asp. Tox. 1 - H304		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
Alpha Phellandrene		≤2%
CAS number: 99-83-2	EC number: 202-792-5	70
Classification		
Flam. Liq. 3 - H226		
Asp. Tox. 1 - H304		

7-methyl-3-methyleneocta-1,	6-diene ≤2%
CAS number: 123-35-3	EC number: 204-622-5
M factor (Acute) = 1	
Classification	
Flam. Liq. 3 - H226	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Asp. Tox. 1 - H304	
Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	
	s and Hazard Statements are Displayed in Section 16.
SECTION 4: First aid measure	
4.1. Description of first aid me	
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Inhalation	Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. Ge medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Aspiration hazard if swallowed. Do not induce vomiting. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water or use an approved skin cleanser. Continue to rinse for at least 15 minutes. Get medical attention.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention.
4.2. Most important symptoms	and effects, both acute and delayed
General information	Observe risk of aspiration if vomiting occurs.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting meas	sures
5.1. Extinguishing media	
Suitable extinguishing media	Use as appropriate carbon dixoide (CO2), dry chemical or foam
Unsuitable extinguishing media	For safety reasons do not use full water jet.
5.2. Special hazards arising fr	om the substance or mixture
Specific hazards	No data available.
5.3. Advice for firefighters	
Protective actions during	Avoid breathing fire gases or vapours. Control run-off water by containing and keeping it out
firefighting	of sewers and watercourses

firefightingof sewers and watercourses.Special protective equipmentWear full protective clothing

for firefighters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation of the working area, evacuate personnel to safe area, wear suitable protective equipment. Keep unnecessary and unprotected personnel away from the spillage. No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning upAbsorb with inert, non-combustible, inorganic absorbent material (e.g. sand, earth,
diatomaceous earth, vermiculite). Sweep up and remove to an approved disposal container.
Do not absorb in sawdust or other combustible absorbents. For any concern related to
disposal consult section 13. Never return spills in original containers for re-use. Ventilate area
and wash spill area after material pick up is complete. Wash spill site after material pick up is
complete.

6.4. Reference to other sections

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	

Usage precautions Apply good manufacturing practice and industrial hygiene practices. Keep containers sealed when not in use. Use personal protection equipment as mentioned under "exposure controls and personal protection". Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Avoid inhalation of vapours. Use only in well-ventilated areas. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Do not empty into drains. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

1, 8 cineole (CAS: 470-82-6)

DNEL

Workers - Inhalation; Long term systemic effects: 7.05 mg/m³ Workers - Dermal; Long term systemic effects: 2 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 1.74 mg/m³ General population - Dermal; Long term systemic effects: 1 bw/day, mg/kg General population - Oral; Long term systemic effects: 600 mg/kg, bw/day

 PNEC - Fresh water; Short term 5.7 mg! - Internite water; Short term 5.7 mg! - Stort term 10 mgil - Stort term 10 mgil - Stort term 0.25 mgil - Sediment (Festwater); Short term 0.142 mg/kg. - Soit; Short term 0.25 mg/kl - Burner CAS: 80-56-80 DNEL Workers - Inhalation: Long term systemic effects: 0.8 mg/ml Workers - Inhalation: Long term systemic effects: 0.9 mg/kg, bw/day General population - Orai: Long term systemic effects: 0.19 mg/kg, bw/day General population - Inhalation: Long term systemic effects: 0.19 mg/kg, bw/day General population - Orai: Long term systemic effects: 0.19 mg/kg, bw/day General population - Orai: Long term systemic effects: 0.19 mg/kg, bw/day General population - Orai: Long term systemic effects: 0.19 mg/kg, bw/day General population - Orai: Long term systemic effects: 0.19 mg/kg, bw/day General population - Orai: Long term systemic effects: 0.19 mg/kg, bw/day General population - Orai: Long term systemic effects: 0.19 mg/kg, bw/day General population - Orai: Long term systemic effects: 0.19 mg/kg, bw/day General population - Orai: Long term systemic effects: 0.19 mg/kg, bw/day Event Fresh water; Short term 0.606 mgl Intermiter release, marine water; 0.303 mg/h Sediment (Festwater); Short term 15.7 mg/kg Sediment (Marinewater); Short term 15.7 mg/kg Sediment (Marinewater); Short term 1.85 mg/kg Sediment (Marinewater); Short term 0.185 mg/kg Sediment (Marinewater); Short term 0.185 mg/kg Sediment (Festwater); Short term 0.185 mg/kg Sediment (Festwater		
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Workers - Dermal; Long term systemic effects: 0.54 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 0.19 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.19 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.19 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.19 mg/kg, bw/day PNEC - Fresh water; Short term 0.061 mg/l - Intermittent release, marine water; 0.303 mg/l - marine water; Short term 0.061 mg/l - Intermittent release, marine water; 0.303 mg/l - Strip; Short term 0.2 mg/l - Sediment (Marinewater); Short term 157 mg/kg - Sediment (Marinewater); Short term 157 mg/kg - Sediment (Marinewater); Short term 68 mg/l - marine water; Short term 0.86 mg/l - marine water; Short term 6.8 mg/l - marine water; Short term 0.85 mg/kg - Strip; Short term 0.29 mg/kg - Sediment (Marinewater); Short term 0.85 mg/kg - Sediment (Marinewater); Short term 0.85 mg/kg - Sediment (Marinewater); Short term 0.185 mg/kg - Soli; Short term 0.29 mg/kg - Sediment (Marinewater); Short term 0.185 mg/kg - Sediment (Marinewater); Short term 0.85 mg/kg - Sediment (Marinewater); Short term 0.185 mg/kg - Sediment (Marinewater); Short term 0.185 mg/kg - Sediment (Marinewater); Short term 0.185 mg/kg - Sediment (Marinewater); Short		
General population - Inhalation; Long term systemic effects: 0.19 mg/kg, bw/day General population - Dermal; Long term systemic effects: 0.19 mg/kg, bw/day PNEC - Fresh water; Short term 0.060 mg/l - Fresh water; Short term 0.061 mg/l - Intermittent release; 3.03 mg/l - Bresh water; Short term 0.061 mg/l - Steinnent (Freshwater); Short term 157 mg/kg - Sediment (Freshwater); Short term 188 mg/k - Strp: Short term 2.6 mg/l - Strp: Short term 0.28 mg/kg - Strp: Short term 0.329 mg/kg - Strp: Short term 0.329 mg/kg - Strp: 1.8 mg/l - Soli; Short term 0.329 mg/kg PNEC - STP: 1.8 mg/l - Soli; Short term 0.329 mg/kg - Strp: 1.8 mg/l - Soli; 2.262 mg/kg - Strp: 1.8 mg/l - Soli; 2.262 mg/kg - Fresh water; 0.0054 mg/l - Sediment (Marinewater); 1.3 mg/kg -	DNEL	
General population - Dermal; Long term systemic effects: 0.19 mg/kg, bw/day PNEC - Fresh water; Short term 0.606 mg/l - Fresh water; Short term 0.061 mg/l - Intermittent release; 3.03 mg/l - marine water; Short term 0.061 mg/l - Intermittent release; marine water; 0.303 mg/l - STP; Short term 0.2 mg/l - Sediment (Freshwater); Short term 157 mg/kg - Sediment (Freshwater); Short term 157 mg/kg - Sediment (Freshwater); Short term 157 mg/kg - Sediment (Freshwater); Short term 168 mg/l - marine water; Short term 0.80 mg/l - Strp; Short term 0.26 mg/l - Strp; Short term 0.26 mg/l - Strp; Short term 0.32 mg/l - Strp; Short term 0.80 mg/l - Strp; Short term 0.26 mg/l - sediment (Marinewater); Short term 1.85 mg/kg - Sediment (Marinewater); Short term 0.185 mg/kg - Sediment (Marinewater); Short term 0.185 mg/kg - Sediment (Marinewater); Short term 0.185 mg/kg - Sediment (Marinewater); Short term 0.185 mg/kg - Soli; Short term 0.329 mg/kg - Strp; 1.8 mg/l - Soli; Co2c mg/kg - Strp; 1.8 mg/l - Soli; Co2c mg/kg - Fresh water; 0.0054 mg/l - Soli; Co2c mg/kg - Fresh water; 0.0054 mg/l - Soli; Co2c mg/kg - Sediment (Freshwater); 1.32 mg/kg - Sediment (Kreshwater); 1.31 mg/kg - S		
General population - Oral; Long term systemic effects: 0.19 mg/kg, bw/day PNEC - Fresh water; Short term 0.606 mg/l - Fresh water; Short term 0.061 mg/l - Intermittent release; a.03 mg/l - Intermittent release; marine water; 0.030 mg/l - STP; Short term 0.2 mg/l - Stediment (Kreshwater); Short term 15.7 mg/kg - Sediment (Marinewater); Short term 15.7 mg/kg - Soli; Short term 0.2 mg/l - Sediment (Marinewater); Short term 15.7 mg/kg - Sediment (Marinewater); Short term 15.7 mg/kg - Sediment (Marinewater); Short term 15.7 mg/kg - Steri; Short term 0.2 mg/l - Sediment (Marinewater); Short term 15.7 mg/kg - Steri; Short term 0.2 mg/l - Sediment (Freshwater); Short term 15.7 mg/kg - Steri; Short term 0.2 mg/l - Sediment (Marinewater); Short term 1.85 mg/kg - Steri; Short term 0.2 mg/l - Sediment (Freshwater); Short term 0.185 mg/kg - Steri; Short term 0.329 mg/kg - Sediment (Marinewater); Short term 0.185 mg/kg - Soli; Short term 0.72 mg/l - Sediment (Marinewater); Short term 0.185 mg/kg - Soli; Short term 0.329 mg/kg - Sediment (Freshwater); Short term 0.185 mg/kg - Soli; Ca62 mg/kg - Sediment (Freshwater); Short term 0.185 mg/kg - Soli; Short term 0.320 mg/l - Soli; Ca62 mg/kg - Soli; Ca62 mg/kg - Fresh water; O.005		
PNEC Fresh water; Short term 0.606 mg/l Fresh water, Intermittent release; 3.03 mg/l Intermittent release, marine water; 0.303 mg/l IstTP; Short term 0.2 mg/l Sediment (Freshwater); Short term 157 mg/kg Sediment (Freshwater); Short term 157 mg/kg Sediment (Marinewater); Short term 157 mg/kg Soli; Short term 31.7 mg/kg Pmenth-1en-8-ol (CAS: 98-55-5) PNEC Fresh water; Short term 68 mg/l marine water; Short term 6.8 mg/l sediment (Freshwater); Short term 1.85 mg/kg Sediment (Freshwater); Short term 0.185 mg/kg Sediment (Marinewater); Short term 0.185 mg/kg Soli; Short term 0.329 mg/kg (R)-p-mentha-1,8-diene (CAS: 5989-27-5) DNEL Workers - Inhalation; Long term systemic effects: 3.3.3 mg/m³ General population - Oral; Long term systemic effects: 4.76 mg/kg Presh water; 0.0054 mg/l Soli (0.262 mg/kg) Fresh water; 0.0054 mg/l Sediment (Freshwater); 1.32 mg/kg Sediment (Marinewater); 0.13 mg/kg Sediment (Marinewater); 0.13 mg/kg Sediment (Marinewater); 0.13 mg/kg Sediment (Marinewater); 0.13 mg/kg General population - Inhalation; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg<		
 Fresh water, Intermittent release; 3.03 mg/l marine water; Short term 0.061 mg/l Intermittent release, marine water; 0.303 mg/l STP; Short term 0.2 mg/l Sediment (Freshwater); Short term 157 mg/kg Sediment (Marinewater); Short term 15.7 mg/kg Soli; Short term 31.7 mg/kg Pmenth-1-en-8-ol (CAS: 98-55-5) PNEC Fresh water; Short term 6.8 mg/l marine water; Short term 0.85 mg/l Sediment (Freshwater); Short term 1.85 mg/kg Sediment (Marinewater); Short term 0.185 mg/kg Soli; Short term 0.329 mg/kg DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m³ General population - Oral; Long term systemic effects: 4.76 mg/kg Soli; 0.262 mg/kg Fresh water; 0.00054 mg/l Sediment (Freshwater); 1.32 mg/kg DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m ³ Workers - Inhalation; Long term systemic effects: 0.8 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - O		General population - Oral, Long term systemic enects. 0.19 mg/kg, bw/day
 marine water; Short term 0.061 mg/l Intermittent release, marine water; 0.303 mg/l STP; Short term 0.2 mg/l Sediment (Freshwater); Short term 157 mg/kg Sodi; Short term 31.7 mg/kg Sodi; Short term 31.7 mg/kg Sodiment (Freshwater); Short term 15.7 mg/kg Sodiment (Freshwater); Short term 15.7 mg/kg Strp; Short term 2.6 mg/l marine water; Short term 0.86 mg/l Sediment (Marinewater); Short term 1.85 mg/kg Sediment (Freshwater); Short term 1.85 mg/kg Sediment (Freshwater); Short term 0.185 mg/kg Sodi; Short term 0.329 mg/kg Sodi; Short term 0.185 mg/kg Sodi; Short term 0.329 mg/kg Sodi; O.262 mg/kg Fresh water; 0.0054 mg/l Sediment (Freshwater); 1.32 mg/kg Sediment (Freshwater); 0.13 mg/kg Sediment (Freshwater); 0.13 mg/kg Sediment (Freshwater); 1.32 mg/kg Sediment (Freshwater); 0.13 mg/kg Sediment (Marinewater); 0.13 mg/kg Sediment (Freshwater); 0.10 mg term systemic effects: 0.3 mg/kg, bw/day General population - Inhalation; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg 	PNEC	- Fresh water; Short term 0.606 mg/l
 Intermittent release, marine water; 0.303 mg/l STP; Short term 0.2 mg/l Sediment (IFreshwater); Short term 15.7 mg/kg Sediment (Marinewater); Short term 15.7 mg/kg Soil; Short term 31.7 mg/kg Pmetc Fresh water; Short term 68 mg/l marine water; Short term 6.8 mg/l Sediment (Marinewater); Short term 1.85 mg/kg Sediment (Freshwater); Short term 0.185 mg/kg Sediment (Freshwater); Short term 0.185 mg/kg Sediment (Freshwater); Short term 0.185 mg/kg Soil; Short term 0.329 mg/kg PNEC FTP; Short term 0.209 mg/kg (R)-p-mentha-1,8-diene (CAS: 5989-27-5) DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m³ General population - Oral; Long term systemic effects: 4.76 mg/kg Fresh water; 0.00054 mg/l Sediment (Freshwater); 0.13 mg/kg PNEC STP; 1.8 mg/l Soil; 0.262 mg/kg Fresh water; 0.00054 mg/l Sediment (Marinewater); 0.13 mg/kg Beta Pinene (CAS: 127-91-3) DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m ³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long te		- Fresh water, Intermittent release; 3.03 mg/l
 STP; Short term 0.2 mg/l Sediment (Freshwater); Short term 157 mg/kg Sediment (Marinewater); Short term 157 mg/kg Soil; Short term 31.7 mg/kg PMEC Fresh water; Short term 68 mg/l marine water; Short term 6.8 mg/l STP; Short term 2.6 mg/l Sediment (Marinewater); Short term 0.185 mg/kg Soil; Short term 0.29 mg/kg DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m³ General population - Oral; Long term systemic effects: 5.69 mg/m² DNEL Sediment (Marinewater); 0.13 mg/kg Estime water; 0.0054 mg/l Soil; 0.262 mg/kg Fresh water; 0.0054 mg/l Sediment (Marinewater); 1.32 mg/kg DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m³ Workers - Inhalation; Long term systemic effects: 0.8 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.		- marine water; Short term 0.061 mg/l
 Sediment (Freshwater); Short term 157 mg/kg Sediment (Marinewater); Short term 15.7 mg/kg Soil; Short term 31.7 mg/kg preneth-1-en-8-ol (CAS: 98-55-5) PNEC Fresh water; Short term 68 mg/l marine water; Short term 6.8 mg/l STP; Short term 2.6 mg/l Sediment (Freshwater); Short term 1.85 mg/kg Sediment (Freshwater); Short term 0.185 mg/kg Sediment (Freshwater); Short term 0.185 mg/kg Sediment (Marinewater); Short term 0.185 mg/kg Soil; Short term 0.329 mg/kg DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m³ General population - Oral; Long term systemic effects: 4.76 mg/kg PNEC STP; 1.8 mg/l Soil; 0.262 mg/kg Fresh water; 0.0054 mg/l marine water; 0.0054 mg/l Sediment (Freshwater); 1.32 mg/kg Sediment (Freshwater); 0.13 mg/kg DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m³ Morie (Marinewater); 0.13 mg/kg Sediment (Freshwater); Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day,		 Intermittent release, marine water; 0.303 mg/l
 Sediment (Marinewater); Short term 15.7 mg/kg Soil; Short term 31.7 mg/kg Dementh-1-en-8-ol (CAS: 98-55-5) PNEC Fresh water; Short term 6.8 mg/l marine water; Short term 6.8 mg/l Sediment (Freshwater); Short term 1.85 mg/kg Sediment (Marinewater); Short term 0.185 mg/kg Soil; Short term 0.329 mg/kg (R)-p-mentha-1,8-diene (CAS: 5989-27-5) DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m³ General population - Oral; Long term systemic effects: 4.76 mg/kg PNEC STP; 1.8 mg/l Soil; 0.262 mg/kg Fresh water; 0.0054 mg/l Sediment (Freshwater); 1.32 mg/kg Sediment (Karinewater); 0.13 mg/kg Sediment (Freshwater); 0.13 mg/kg Sediment (Karinewater); 0.13 mg/kg Sediment (Marinewater); 0.13 mg/kg General population - Inhalation; Long term systemic effects: 0.8 bw/day, mg/kg General population - Dermal; Long term systemic effects: 0.3 mg/kg, bw/day General population - Orat; Long term systemic effects: 0.3 mg/kg, bw/day 		- STP; Short term 0.2 mg/l
 Soil; Short term 31.7 mg/kg pmenth-1-en-8-ol (CAS: 98-55-5) PNEC Fresh water; Short term 68 mg/l marine water; Short term 6.8 mg/l STP; Short term 2.6 mg/l Sediment (Freshwater); Short term 1.85 mg/kg Sediment (Marinewater); Short term 0.185 mg/kg Soil; Short term 0.329 mg/kg DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m³ General population - Oral; Long term systemic effects: 4.76 mg/kg PNEC STP; 1.8 mg/l Soil; 0.262 mg/kg Fresh water; 0.0054 mg/l Sediment (Freshwater); 1.32 mg/kg Sediment (Freshwater); 0.13 mg/kg Beta Pinene (CAS: 127-91-3) DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m³ General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Dermal; Long term systemic effects: 0.3 mg/kg, bw/day General population - Dermal; Long term systemic effects: 0.3 mg/kg, bw/day, mg/kg 		 Sediment (Freshwater); Short term 157 mg/kg
PMEC Fresh water; Short term 68 mg/l marine water; Short term 6.8 mg/l S1P; Short term 2.6 mg/l Sediment (Freshwater); Short term 1.85 mg/kg Sediment (Marinewater); Short term 0.185 mg/kg Sediment (Marinewater); Short term 0.185 mg/kg Soli; Short term 0.329 mg/kg Morkers - Inhalation; Long term systemic effects: 33.3 mg/m³ General population - Oral; Long term systemic effects: 4.76 mg/kg PNEC STP; 1.8 mg/l Sediment (Freshwater); 1.32 mg/kg Fresh water; 0.0054 mg/l Sediment (Freshwater); 1.32 mg/kg Sediment (Freshwater); 1.32 mg/kg Sediment (Marinewater); 0.13 mg/kg Sediment (Marinewater); 0.13 mg/kg Morkers - Inhalation; Long term systemic effects: 5.69 mg/m³ Morkers - Inhalation; Long term systemic effects: 1.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 1.9 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 1.9 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 1.9 bw/day, mg/kg General population - Dermal; Long term systemic effects: 1.9 bw/day, mg/kg General population - Dermal; Long term systemic effects: 1.9 bw/day, mg/kg General population - Dermal; Long term systemic effects: 1.9 bw/day, mg/kg General population - Dermal; Long term systemic effects: 0.3 bw/day, mg/kg General population - Dermal; Long term systemic effects: 1.9 bw/day, mg/kg		 Sediment (Marinewater); Short term 15.7 mg/kg
PNEC - Fresh water; Short term 68 mg/l - marine water; Short term 6.8 mg/l - STP; Short term 2.6 mg/l - Sediment (Freshwater); Short term 1.85 mg/kg - Sediment (Marinewater); Short term 0.185 mg/kg - Soil; Short term 0.329 mg/kg (R)-p-mentha-1,8-diene (CAS: 5989-27-5) DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m³ General population - Oral; Long term systemic effects: 4.76 mg/kg PNEC - STP; 1.8 mg/l - Soil; 0.262 mg/kg - Fresh water; 0.0054 mg/l - marine water; 0.0054 mg/l - Sediment (Freshwater); 1.32 mg/kg - Sediment (Marinewater); 0.13 mg/kg DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 0.3 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg		- Soil; Short term 31.7 mg/kg
 marine water; Short term 6.8 mg/l STP; Short term 2.6 mg/l Sediment (Freshwater); Short term 1.85 mg/kg Sediment (Marinewater); Short term 0.185 mg/kg Soil; Short term 0.329 mg/kg (R)-p-mentha-1,8-diene (CAS: 5989-27-5) DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m ³ General population - Oral; Long term systemic effects: 4.76 mg/kg PNEC STP; 1.8 mg/l Soil; 0.262 mg/kg Fresh water; 0.0054 mg/l Sediment (Freshwater); 1.32 mg/kg Sediment (Marinewater); 0.13 mg/kg Beta Pinene (CAS: 127-91-3) DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m ³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 b		p-menth-1-en-8-ol (CAS: 98-55-5)
 marine water; Short term 6.8 mg/l STP; Short term 2.6 mg/l Sediment (Freshwater); Short term 1.85 mg/kg Sediment (Marinewater); Short term 0.185 mg/kg Soil; Short term 0.329 mg/kg (R)-p-mentha-1,8-diene (CAS: 5989-27-5) DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m ³ General population - Oral; Long term systemic effects: 4.76 mg/kg PNEC STP; 1.8 mg/l Soil; 0.262 mg/kg Fresh water; 0.0054 mg/l Sediment (Freshwater); 1.32 mg/kg Sediment (Marinewater); 0.13 mg/kg Beta Pinene (CAS: 127-91-3) DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m ³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 b	PNEC	- Fresh water: Short term 68 mg/l
 STP; Short term 2.6 mg/l Sediment (Freshwater); Short term 1.85 mg/kg Sediment (Marinewater); Short term 0.185 mg/kg Soil; Short term 0.329 mg/kg (R)-p-mentha-1,8-diene (CAS: 5989-27-5) DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m³ General population - Oral; Long term systemic effects: 4.76 mg/kg PNEC - STP; 1.8 mg/l Soil; 0.262 mg/kg Fresh water; 0.0054 mg/l marine water; 0.0054 mg/l Sediment (Freshwater); 1.32 mg/kg Sediment (Marinewater); 0.13 mg/kg Beta Pinene (CAS: 127-91-3) DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg 		-
 Sediment (Freshwater); Short term 1.85 mg/kg Sediment (Marinewater); Short term 0.185 mg/kg Soil; Short term 0.329 mg/kg (R)-p-mentha-1,8-diene (CAS: 5989-27-5) DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m³ General population - Oral; Long term systemic effects: 4.76 mg/kg PNEC - STP; 1.8 mg/l Soil; 0.262 mg/kg Fresh water; 0.0054 mg/l marine water; 0.0054 mg/l Sediment (Freshwater); 1.32 mg/kg Sediment (Freshwater); 0.13 mg/kg Beta Pinene (CAS: 127-91-3) DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Dermal; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg 		-
 Sediment (Marinewater); Short term 0.185 mg/kg Soil; Short term 0.329 mg/kg (R)-p-mentha-1,8-diene (CAS: 5989-27-5) DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m³ General population - Oral; Long term systemic effects: 4.76 mg/kg PNEC - STP; 1.8 mg/l Soil; 0.262 mg/kg Fresh water; 0.0054 mg/l Sediment (Freshwater); 1.32 mg/kg Sediment (Marinewater); 0.13 mg/kg DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m³ Workers - Dermal; Long term systemic effects: 5.69 mg/m³ DNEL Workers - Inhalation; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg 		-
 Soil; Short term 0.329 mg/kg (R)-p-mentha-1,8-diene (CAS: 5989-27-5) DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m³ General population - Oral; Long term systemic effects: 4.76 mg/kg PNEC - STP; 1.8 mg/l - Soil; 0.262 mg/kg - Fresh water; 0.0054 mg/l - marine water; 0.0054 mg/l Sediment (Freshwater); 1.32 mg/kg Sediment (Marinewater); 0.13 mg/kg DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 1 mg/m³ General population - Dermal; Long term systemic effects: 0.3 bw/day, mg/kg 		
DNEL Workers - Inhalation; Long term systemic effects: 33.3 mg/m³ General population - Oral; Long term systemic effects: 4.76 mg/kg PNEC - STP; 1.8 mg/l - Soil; 0.262 mg/kg - Fresh water; 0.0054 mg/l - marine water; 0.0054 mg/l - Sediment (Freshwater); 1.32 mg/kg - Sediment (Marinewater); 0.13 mg/kg DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 mg/kg, bw/day		
General population - Oral; Long term systemic effects: 4.76 mg/kg PNEC - STP; 1.8 mg/l - Soil; 0.262 mg/kg - Fresh water; 0.0054 mg/l - marine water; 0.00054 mg/l - Sediment (Freshwater); 1.32 mg/kg - Sediment (Marinewater); 0.13 mg/kg Beta Pinene (CAS: 127-91-3) DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 mg/kg, bw/day		(R)-p-mentha-1,8-diene (CAS: 5989-27-5)
General population - Oral; Long term systemic effects: 4.76 mg/kg PNEC - STP; 1.8 mg/l - Soil; 0.262 mg/kg - Fresh water; 0.0054 mg/l - marine water; 0.00054 mg/l - Sediment (Freshwater); 1.32 mg/kg - Sediment (Marinewater); 0.13 mg/kg Beta Pinene (CAS: 127-91-3) DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 mg/kg, bw/day		
PNEC - STP; 1.8 mg/l - Soil; 0.262 mg/kg - Fresh water; 0.0054 mg/l - marine water; 0.00054 mg/l - sediment (Freshwater); 1.32 mg/kg - Sediment (Marinewater); 0.13 mg/kg Beta Pinene (CAS: 127-91-3) DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg	DNEL	
 Soil; 0.262 mg/kg Fresh water; 0.0054 mg/l marine water; 0.00054 mg/l Sediment (Freshwater); 1.32 mg/kg Sediment (Marinewater); 0.13 mg/kg Beta Pinene (CAS: 127-91-3) DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m ³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 1 mg/m ³ General population - Dermal; Long term systemic effects: 0.3 bw/day, mg/kg General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg		General population - Oral; Long term systemic effects: 4.76 mg/kg
 Fresh water; 0.0054 mg/l marine water; 0.00054 mg/l Sediment (Freshwater); 1.32 mg/kg Sediment (Marinewater); 0.13 mg/kg Beta Pinene (CAS: 127-91-3) DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m ³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg	PNEC	- STP; 1.8 mg/l
 marine water; 0.00054 mg/l Sediment (Freshwater); 1.32 mg/kg Sediment (Marinewater); 0.13 mg/kg Beta Pinene (CAS: 127-91-3) DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m ³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 1 mg/m ³ General population - Dermal; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg		
 Sediment (Freshwater); 1.32 mg/kg Sediment (Marinewater); 0.13 mg/kg <u>Beta Pinene (CAS: 127-91-3)</u> Workers - Inhalation; Long term systemic effects: 5.69 mg/m³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 1 mg/m³ General population - Dermal; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg 		
- Sediment (Marinewater); 0.13 mg/kg Beta Pinene (CAS: 127-91-3) DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m ³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 1 mg/m ³ General population - Dermal; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg		-
Beta Pinene (CAS: 127-91-3) DNEL Workers - Inhalation; Long term systemic effects: 5.69 mg/m³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 1 mg/m³ General population - Dermal; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg		
DNELWorkers - Inhalation; Long term systemic effects: 5.69 mg/m³ Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 1 mg/m³ General population - Dermal; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg		- Sediment (Marinewater); 0.13 mg/kg
Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 1 mg/m ³ General population - Dermal; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg		Beta Pinene (CAS: 127-91-3)
Workers - Dermal; Long term systemic effects: 0.8 bw/day, mg/kg General population - Inhalation; Long term systemic effects: 1 mg/m ³ General population - Dermal; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg	DNEL	Workers - Inhalation: Long term systemic effects: 5.69 mg/m ³
General population - Inhalation; Long term systemic effects: 1 mg/m ³ General population - Dermal; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg		
General population - Dermal; Long term systemic effects: 0.3 mg/kg, bw/day General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg		
General population - Oral; Long term systemic effects: 0.3 bw/day, mg/kg		
Ekokoza s.r.o.		
Ekokoza s.r.o.		
Ekokoza s.r.o.		
		Ekokoza s.r.o.

Appearance	Liquid.	
9.1. Information on basic ph	ysical and chemical properties	
SECTION 9: Physical and chemical properties		
Environmental exposure controls	Do not allow run-off fire fighting to enter drains or water courses. Avoid discharging into drains.	
Respiratory protection	Generally unnecessary in a well ventilated area. If ventilation is insufficient, respiratory protection must be worn.	
Hygiene measures	Good personal hygiene procedures should be implemented.	
Other skin and body protection	Wear apron or protective clothing in case of contact.	
Hand protection	Chemical resistant gloves (PVC)	
Eye/face protection	Approved safety goggles.	
Personal protection	Use personal protection according to Directive 89/686/EEC	
Appropriate engineering controls	Provide eyewash station Provide adequate ventilation.	
8.2. Exposure controls Protective equipment		
	- Sediment (Marinewater); 0.502 mg/kg	
	- Sediment (Freshwater); 5.022 mg/kg	
	- Fresh water; 0.00028 mg/l - marine water; 0.0008 mg/l	
PNEC	- STP; 0.2 mg/l - Soil; 1.015 mg/kg	
	General population - Inhalation; Long term systemic effects: 1.25 mg/m ³	
DNEL	Workers - Dermal; Long term systemic effects: 0.83 mg/kg Workers - Inhalation; Long term systemic effects: 5.83 mg/m ³ General population - Dermal; Long term systemic effects: 0.42 mg/kg	
	7-methyl-3-methyleneocta-1,6-diene (CAS: 123-35-3)	
	- Soil; Short term 0.067 mg/kg	
	 Sediment (Freshwater); Short term 0.337 mg/kg Sediment (Marinewater); Short term 0.034 mg/kg 	
	- STP; Short term 3.26 mg/l	
	- marine water; Short term 0.1 mg/l	
PNEC	- Fresh water; Short term 1.004 mg/l	
PNEC	- Fresh water; Short term 1.004 mg/l - Intermittent release, Fresh water; 5.02 mg/l	

Appearance	Liquid.
Colour	Colourless to pale yellow.
Odour	Characteristic.
Flash point	≥ 42°C
Relative density	0.900 - 0.930 @ 20°C Ekokoza s.r.o. Fryčovice 297, 73945, Fryčovice IČ: 07508247, eshop@ekokoza.cz, +420605779993

9.2. Other information		
Refractive index	1.455 - 1.475 @ 20°C	
Optical Rotation	-10 to +10	
Hydrocarbon Content		
SECTION 10: Stability and read	activity	
10.1. Reactivity		
Reactivity	The substance is stable under normal storage and handling conditions.	
10.2. Chemical stability		
Stability	Stable under the prescribed storage conditions.	
10.3. Possibility of hazardous	reactions	
Possibility of hazardous reactions	No potentially hazardous reactions known.	
10.4. Conditions to avoid		
Conditions to avoid	Avoid heat, flames and other sources of ignition.	
10.5. Incompatible materials		
Materials to avoid	Avoid contact with the following materials: Strong acids. Strong oxidising agents. Strong alkalis.	
10.6. Hazardous decomposition products		
Hazardous decomposition products	Heating may generate the following products: Nitrous gases (NOx). Carbon dioxide (CO2). Carbon monoxide (CO).	

SECTION 11: Toxicological in	formation	
11.1. Information on toxicolog	ical effects	
Acute toxicity - oral		
Notes (oral LD₅₀)	No information available.	
ATE oral (mg/kg)	6,097.56	
Acute toxicity - dermal		
Notes (dermal LD ₅₀)	No information available.	
Acute toxicity - inhalation		
Notes (inhalation LC₅₀)	No information available.	
Skin corrosion/irritation		
Skin corrosion/irritation	May cause skin irritation.	
Serious eye damage/irritation Serious eye damage/irritation	Causes serious eye irritation.	
	Causes senious eye initation.	
Respiratory sensitisation Respiratory sensitisation	No information available.	
Skin sensitisation Skin sensitisation	May cause an allergic skin reaction.	
Aspiration hazard Aspiration hazard	May be fatal if swallowed and enters airways.	
SECTION 12: Ecological infor	mation	
<u>12.1. Toxicity</u> Acute aquatic toxicity		
Acute toxicity -	No data available.	
microorganisms		
Chronic aquatic toxicity		
Toxicity to soil	No data available.	
12.2. Persistence and degradability		
Biodegradation	No information available.	
12.3. Bioaccumulative potentia	al	
12.4. Mobility in soil		
Mobility	No data available.	
12.5. Results of PBT and vPvB assessment		
12.6. Other adverse effects		
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Avoid releasing into the environment. Do not discharge into drains or watercourses or onto the ground.

SECTION 14: Transport inform	action	
·		
14.1. UN number		
UN No. (ADR/RID)	1169	
UN No. (IMDG)	1169	
UN No. (ICAO)	1169	
UN No. (ADN)	1169	
14.2. UN proper shipping name		
Proper shipping name (ADR/RID)	EXTRACTS, AROMATIC, LIQUID	
Proper shipping name (IMDG)	EXTRACTS, AROMATIC, LIQUID	
Proper shipping name (ICAO)	EXTRACTS, AROMATIC, LIQUID	
Proper shipping name (ADN)	EXTRACTS, AROMATIC, LIQUID	
14.3. Transport hazard class(e	<u>es)</u>	
ADR/RID class	3	
ADR/RID classification code	F1	
ADR/RID label	3	
IMDG class	3	
ICAO class/division	3	
ADN class	3	
Transport labels		
14.4. Packing group		
ADR/RID packing group	III	
IMDG packing group	III	
ICAO packing group	III	
ADN packing group	III	
14.5. Environmental hazards		
Environmentally hazardous substance/marine pollutant No.		
14.6. Special precautions for u	ISEF	
EmS	F-E, S-D	
ADR transport category	3	
Emergency Action Code	3Y	
Hazard Identification Number (ADR/RID)	30	
	Ekokoza s.r.o.	
	Fryčovice 297, 73945, Fryčovice IČ: 07508247, eshop@ekokoza.cz, +420605779993	

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

SECTION 15: Regulatory information

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

Guidance

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CHIP for everyone HSG228.

15.2. Chemical safety assessment

SECTION 16: Other information		
Revision date	26/09/2022	
Revision	4	
Supersedes date	08/07/2020	
SDS number	5125	
Hazard statements in full	 H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H361 Suspected of damaging fertility or the unborn child. 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. 	

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

Product Specification

PRODUCT DETAILS				
Product Name	EUCALYPTUS RADIATA OIL			
Tariff Number	33012949	33012949		
Country of Origin	South Africa	South Africa		
INCI Name	Eucalyptus Radiata Flower/Leaf/Stem Oil			
Natural Status	from our supplier, that this produ	our knowledge and from information received tot is in accordance to the requirements of 2) 1334/2008 and therefore can be designated as y solvents or additives.		
Food Grade Status		We confirm, from information received from our supplier, that this product conforms with EU Regulations and can be used in food.		
Kosher Certified	No			
Halal Certified	We hereby declare, from information received from our supplier, that this product does not contain any ingredient derived from animal origin, extracted from hair or feathers, animal fats, animal extracts, blood of any origin, blood plasma, pork and/or other meat products. This product does not contain alcohol (ethanol or grain alcohol) and has not been used in the manufacturing process.			
GMO Declaration	To the best of our knowledge and from information received from our supplier, this product does not derive from genetically modified starting raw material, or additives that are derived from genetically modifed organisms.			
Manufacturing Process	Please request flow chart			
Identification	CAS No: 92201-64-4	EINECS No: 295-995-3		
PHYSICAL AND CHEMICAL CHA	ARACTERISTIC			
Appearance	Liquid			
Colour	Colourless to Pale Yellow			
Odour	Charcteristic			
Relative Density @ 20°C	0.900 - 0.930			
Refractive Index @ 20°C	1.455 - 1.475			
Optical Rotation °	-10 to +10			
Flash Point °C	≥42			
1,8 Cineole Content %	Max 75%			
FRAGRANCE ALLERGENS				
Geraniol (10624-1) <1%	Linalool (78-70-6) <1%	Limonene (5989-27-5) ≤12%		
Citronellol (106-22-9) <0.01%				
FOOD ALLERGENS				
NONE PRESENT				
IFRA				
Geraniol (10624-1) <1%	Citronellol (106-22-9) <0.01			
STORAGE AND SHELF LIFE	Store in tightly closed container with minimum headspace in a cool, dark and dry place.			
STORAGE AND SHELF LIFE Storage	Store in tightly closed containe and dry place.	er with minimum headspace in a cool, dark		

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the Company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability of such information for his own particular use. Where we make a declaration that allergenic material are not present in any product, this statement is made assuming reasonable levels of detection. It is impossible to guarantee the "absolute absence" of any material. It is the ultimate responsibility of the customer to ensure the safety of the intended final product containing this material, by carrying out additional tests if necessary.

Vegan and Vegetarian Statement

IDENTIFICATION		
Product:	EUCALYPTUS RADIATA OIL	
Cas No:	92201-64-4	
EINECS No:	295-995-3	
	STATEMENT	
We, from information received from our supplier, hereby declare that the material listed above is compliant with a vegan or vegetarian diet.		
It does not contain any animal ingredients or animal by products. No animal ingredients or by products are used in the manufacturing process.		
This document represents to the best of our knowledge and from information received from our supplier. It does not release the buyer from the obligation to carry out an examination of the goods received. All uses		
made by the buyer are done under their own responsibility.		