



Safety Data Sheet

01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name	Eucalyptus Oil Radiata.				
Biological Definition	Eucalyptus Radiata Flower/Leaf/Stem Oil is the volatile oil obtained from the flowers, leaves and stems of Eucalyptus, <i>Eucalyptus radiata</i> var. <i>Australiana</i> , <i>Myrtaceae</i> .				
INCI Name	Eucalyptus Radiata Flower/Leaf/Stem Oil.				
Synonyms & Trade Names					
CAS-No	92201-64-4	EC No.	295-995-3	EINECS No.	295-995-3

1.2 Relative identified uses of the substance or mixture and uses advised against

No additional data available.

1.3 Details of the supplier of the safety data sheet

Golden Bough Botanicals Inc 12-1585 Cliveden Ave Delta BC V3M 6M1

1.4 Emergency Tel. No.

604-540-8700 (Monday-Friday 8:30 am-4:30 pm)

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

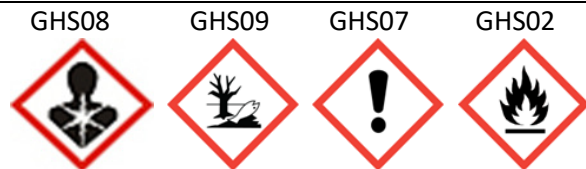
The Full Text for all Hazard Statements are Displayed in Section 16.

Classification (EC 1272/2008)

Physical: Flam. Liq. 3 – H226
 Health: Skin Sens. 1 – H317; Asp. Tox. 1 – H304
 Environmental: Aquatic Chronic 2 – H411

2.2 Label Elements

Label in accordance with (EC) No 1272/2008



Signal Word

Danger.

Contains

alpha-Pinene, beta-Pinene, Limonene.

Hazard Statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Supplementary Precautionary Statements	
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or Doctor/Physician.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P303+361+353	IF ON SKIN: (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P321	Specific treatment (see... on this label).
P331	Do NOT induce vomiting.
P333+313	If skin irritation occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+378	In case of fire: Use... for extinction.
P391	Collect spillage.
P403+235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to...
2.3 Other Hazards	
PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
<p>60-100% Cineol CAS-No.: 470-67-7 EC No.: 207-428-9</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 – H226,</p>
<p>10-30% Alpha-terpineol CAS-No.: 98-55-5 EC No.: 202-680-6</p> <p>Classification (EC 1272/2008) Skin Irrit 2 – H315</p>
<p>5-10% alpha-Pinene CAS-No.: 80-56-8 EC No.: 201-291-9</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304</p>
<p>5-10% Limonene CAS-No.: 5989-27-5 EC No.: 227-813-5</p> <p>Classification (EC 1272/2008) Flam. Liq. 3 – H226, Skin Irrit 2 – H315 Asp Tox. 1 – H304, Skin Sens. 1 – H317 Aquatic Acute 1 – H400, Aquatic Chronic 1 – H410</p>
<p>1-5% beta-Pinene Cas. No: 127-91-3 EC No: 204-872-5</p> <p>Classification (EC 1272/2008); Danger, Flam. Liq. 3 – H226, Skin Sens. 1 – H317 , Asp Tox. 1 – H304, Aquatic Chronic 1 – H410</p>

<p>1-5% 4-Terpineol CAS-No.: 562-74-3 EC No.: 209-235-5</p> <p>Classification (EC 1272/2008) Acute Tox. 4 – H302, Skin Irrit. 2 – H315</p>
<p>1-5% para-Cymene CAS-No.: 99-87-6 EC No.: 202-796-7</p> <p>Classification (EC 1272/2008); Flam. Liq. 3 – H226, Asp. Tox. 1 – H304, Aquatic Chronic 2 – H411</p>
<p><1% Geraniol CAS-No.: 106-24-1 EC No.: 203-377-1</p> <p>Classification (EC 1272/2008) Skin Irrit. 2 – H315, Eye Dam. 1 – H318, Skin Sens. 1 – H317</p>

04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	May cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	If necessary, rinse mouth and provide fresh air. Get medical attention if discomfort continues.
Skin Contact	If necessary remove contaminated clothing and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.
4.2 Most important symptoms and effects, both acute and delayed	
Observe risk of aspiration if vomiting occurs.	
4.3 Indication of any immediate medical attention and special treatment needed	
Treat symptomatically.	

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	
Fire can be extinguished using: Foam, carbon dioxide or dry powder.	
5.2 Special hazards arising from the product	
Containers close to fire should be removed or cooled with water. No unusual fire or explosion hazards noted. When heated and in case of fire, toxic vapours/gases may be formed.	
5.3 Advice for firefighters	
Self contained breathing apparatus and full protective clothing must be worn in case of fire.	

06. ACCIDENTAL RELEASE MEASURES


6.1 Personal precautions, protective equipment and emergency procedures	
Use protective gloves, goggles and suitable protective clothing. In case of spills, beware of slippery floors and surfaces.	
6.2 Environmental Precautions	
Do not discharge into drains, water courses or onto the ground.	
6.3 Methods and material for containment and cleaning up.	
Absorb with inert, damp, non-combustible material, then flush area with water. Shovel into dry containers.	

Cover and move the containers. Flush the area with water.
6.4 Reference to other sections
See protective measures under point 7 and 8.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid spilling, skin and eye contact. Ensure adequate ventilation of the working area. Adopt best manual handling considerations when handling, carrying and dispensing. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from freezing and direct sunlight.
7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed.
7.3 Specific end use(s)
No additional data available.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters	
No additional data available.	
8.2 Exposure controls	
Protective Equipment	
	
Process Conditions	Technical measures and the application of suitable work processes have priority over personal protection equipment.
Engineering Measures	No additional data available.
Respiratory Equipment	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances, when excessive air contamination exists.
Hand Protection	Protective gloves should be used if there is a risk of direct contact or splash. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Take recovery periods for skin regeneration.
Eye Protection	If risk of splashing, wear safety goggles or face shield. Use protection goggles according to EN166.
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.
Personal Protection	Use personal protection according to Directive 89/686/EEC.
Skin Protection	Wear apron or protective clothing in case of splashes.
Environmental Exposure Controls	Avoid discharging into drainage water. Only remove via authorised companies.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Clear liquid, colourless to pale yellow.

Colour	Colourless to pale yellow.
Odour	Characteristic.
Relative Density	0.900 - 0.920 @ 20°C
Flash Point (°C)	42°C
Refractive Index	1.457 - 1.467 @ 20C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	No additional data available.
Vapour Pressure	No additional data available.
Solubility in Water @20°C	Insoluble in water.
Auto-ignition temperature (°C)	No additional data available.

9.2 Other information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reactions known.

10.2 Chemical stability

Stable under normal temperature conditions.

10.3 Possible hazardous reactions

No dangerous reactions expected if used according to specifications.

10.4 Conditions to Avoid

Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Strong oxidising substances.
Strong acids.
Strong Alkalis

10.6 Hazardous Decomposition Products

In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	No specific health warnings noted. No harmful effects expected in amounts likely to be ingested by accident.
Skin corrosion / irritation	No specific health warnings noted.
Serious eye damage / irritation	Spray and vapour in the eyes may cause irritation and smarting
Respiratory or skin sensitisation	In high concentrations, vapours may irritate throat and respiratory system and.
Germ Cell Mutagenicity	No additional data available.
Carcinogenicity	No additional data available.
Reproductive toxicity	No additional data available.
STOT-single exposure	No additional data available.
STOT-repeated exposure	No additional data available.
Aspiration hazard	No additional data available.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No additional data available.

12.2 Persistence & degradability

No additional data available.

12.3 Bioaccumulation Potential

No additional data available.

12.4 Mobility in soil

No additional data available.

12.5 Results of PBT and vPvB Assessment

No additional data available.

12.6 Other adverse effects

No additional data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

GENERAL INFORMATION: Waste is suitable for incineration.

DISPOSAL METHODS: Dispose of waste and residues in accordance with local authority Requirements.

14. TRANSPORT INFORMATION

14.1 UN number

UN No. Road	1169
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UN No. SEA	1169
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UN No. AIR	1169
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14.2 UN proper shipping name

EXTRACTS, AROMATIC, LIQUID

14.3 Transport hazard class(es)

ADR/RID/ADN Class: 3

ADR/RID/ADN Class: 3

IMDG Class 3

ICAO Class/Division

Transport Labels




TUNNEL RESTRICTION CODE (D/E)

HAZCHEM CODE •3YE

EMS F-E, S-D

HIN – 30

14.4 Packing group
ADR/RID/ADN Packing group III
IMDG Packing group III
ICAO Packing group III
14.5 Environmental hazards
Environmentally Hazardous Substance/Marine Pollutant

14.6 Special precautions for user
See section 6 to 8.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code
Packed and transferred according to transport regulations.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
<p>Statutory Instruments The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).</p> <p>Guidance Notes Workplace Exposure Limits EH40. CHIP for everyone HSG(108).</p> <p>EU Legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.</p>
15.2 Chemical safety assessment
No additional information available.

16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	<p>H318 Causes serious eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H226 Flammable liquid and vapour.</p> <p>H302 Harmful if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H400 Very toxic to aquatic life..</p>
Other Information	None.
Revision Date	July 27, 2015
Reason for revision	New SDS.

Rev No/Repl, SDS Generated	01
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