



MATERIAL SAFETY DATA SHEET

1. Identification of Substance/Preparation & Company

PRODUCT NAME: Eucalyptus oil, Globulus
PRODUCT CODE: EUCG
SUPPLIER: Green Valley Aromatherapy Ltd.,
4988 North Island Hwy, Courtenay, BC CANADA V9N 9H9
Emergency Tel No: (250) 334-4836. Contact Person: Kelly Lees

2. Composition / Information on Ingredients

DEFINITION/BOTANICAL ORIGIN: Eucalyptus oil is the volatile oil obtained by the steam distillation of the fresh leaves of *Eucalyptus globulus* Labillardiere. (Fam. *Myrtaceae*)

H-No: 3301.29.1000	CAS No: 8000-48-4	Status: natural
CoE No: 185	FEMA: 2466	Additives: none
FDA: § 172.510	IFRA: see section 16	Application: aromatherapy, skin care, inhalent blends, confectionary, etc.
RIFM: monograph	EINECS: 1283-406-2	RTECS:
INCI name: <i>Eucalyptus globulus</i>		FCCIV: official

3. Hazards Identification

R10 Flammable liquid, Xn Harmful.

4. First-Aid Measures

INHALATION: Remove from exposure site to fresh air. Keep at rest. Obtain medical attention.
EYE CONTACT: Rinse immediately with plenty of water for at least 15 minutes. Contact a doctor if symptoms persist.
SKIN CONTACT: Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. If irritation persists, seek medical advice.
INGESTION: Rinse out mouth with water. Seek medical advice **immediately**.
OTHER: When assessing action take Risk & Safety Phrases into account (Section 15).

5. Fire Fighting Measures

EXTINGUISHING MEDIA: Use CO₂, Dry Powder or Foam type Extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.
SPECIAL MEASURES: Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.
EXTINGUISHING PROCEDURES: Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

6. Accidental Release Measures

PERSONAL PRECAUTIONS: Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.
ENVIRONMENT PRECAUTIONS: Keep away from drains, soils, surface & ground waters.
CLEAN UP METHODS FOR SPILLAGES: Remove all potential ignition sources. Contain spilled material. Cover with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Observe municipal, federal and local disposal regulations.

7. Handling & Storage

PRECAUTIONS IN HANDLING:	Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene. Do not eat, drink or smoke whilst handling.
STORAGE CONDITIONS:	Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.
FIRE PROTECTION:	Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

8. Exposure Controls/Personal Protection

RESPIRATORY PROTECTION:	Avoid breathing product vapour. Apply local ventilation where possible.
VENTILATION:	Ensure good ventilation of working area.
HAND PROTECTION:	Avoid all skin contact. Use chemically resistant gloves if required.
EYE PROTECTION:	Use safety glasses.
WORK / HYGIENE PRACTICES:	Wash hands with soap & water after handling.

9. Physical & Chemical Properties

COLOUR:	Colourless to pale yellow
APPEARANCE:	Clear mobile liquid
ODOUR:	Fresh, reminding of cineol
FLASH POINT °C:	47 R10 Flammable
SPECIFIC GRAVITY @ 20°C:	0.905 – 0.925
OPTICAL ROTATION @ 20°C:	0 to +10
REFRACTIVE INDEX @ 20°C:	1.457 – 1.470
SOLUBILITY IN 75% ETHANOL @ 20°C:	1 + 3 clear
SOLUBILITY IN VEGETABLE OILS:	Soluble
SOLUBILITY IN WATER:	Insoluble

Typical Analysis by GLC/GCMS:

CONSTITUENT	PERCENTAGE
Alpha Pinene	4.14
Camphene	0.02
Beta Pinene	0.71
Beta-Phellandrene	0.10
Limonene	7.46
1,8-Cineole	82.91
Gamma Terpinene	1.31
Cis-Beta-Ocimene	0.08
P-Cymene	1.60
Tri-Beta-Ocimene	0.03
Alpha-p-Dimethylstyrene	0.02
Alpha-Pinene oxide	0.01
Eta-pentadecane Tri-Aromadendrene	0.01
Linalol	0.09
Beta-Caryophyllene tri-terpinen-4-ol	0.38
Alpha-Humelene trans pinocarveol	0.18
Allo-Aromadendrene Tri-Pinocarvone	0.09
Alpha-Terpineol	1.55

10. Stability & Reactivity

REACTIVITY: It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.

DECOMPOSITION: Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide and other non-identified organic compounds may be formed.

11. Toxicological Information

Not a sensitizer, not photo-toxic; however toxic to humans by **oral** route: oral-child TDLo 218mg/Kg; oral-man TDLo 375mg/Kg. See section 16.

12. Ecological Information

BIODEGRADABILITY: Data not available

PRECAUTIONS: Prevent surface contamination of soil, ground & surface water.

13. Disposal Considerations

Avoid disposing to drainage systems and into the environment. Seek expert advice.

14. Transport Regulations

ROAD (ADR/RID): Class 3.3
AIR (IATA/ICAO): Class 3.3
SEA (IMDG): 3142 Packing Group III
CHIP: See section 15

15. Regulatory Information According to Directive 88/379/EEC

HAZARDS: Harmful
SYMBOLS: Xn
RISK PHRASES: R10 Flammable liquid; R21/22 Harmful in contact with skin and if swallowed
SAFETY PHRASES: S24/25 Keep away from sources of ignition: No Smoking
S62 If swallowed, do not induce vomiting, seek medical advice immediately and show the container or label.

16. Other Information

Cosmetics Directive 7th Amendment: Restrictions may apply. A source of Limonene, listed as a sensitizer. Check maximum usage levels for skin care products.

PACKAGING:	TYPE	SUITABILITY
	Glass	Yes
	Lacquer lined steel/tin	Yes
	Aluminums	Yes
	HPPE	No
	F/HDPE	Yes
	Other Plastic	No

SHELF LIFE

Minimum 12 months when stored within advised conditions. Re-test after 12 months then every 3 months, up to a maximum of 36 months.

Q.C REQUIREMENTS

In-line with general product specification. Always satisfy suitability for specific application.

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