



MATERIAL SAFETY DATA SHEET

1. Identification of Substance/Preparation & Company

PRODUCT NAME: Thyme Oil
PRODUCT CODE: THYME
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: The volatile oil steam distilled from the flowering plant *Thymus vulgaris*.

H-No: 3301.29	CAS No: 84929-51-1	Status: natural
CoE No: 456	FEMA: 3065	Additives: none
FDA: 182.2	IFRA: not restricted	Application: Aromatherapy, skin care etc
RIFM: monograph	EINECS: 284-535-7	RTECS:
INCI name: <i>Thymus vulgaris</i>		FCCIV: official

3. Hazards Identification

Xi Irritant, R10 Flammable

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:	Mobile liquid
ODOUR:	Pleasant thymol odor
FLASH POINT °C:	55-63
SPECIFIC GRAVITY @ 20°C:	0.880 – 0.939
OPTICAL ROTATION @ 20°C:	
REFRACTIVE INDEX @ 20°C:	1.485 – 1.507
SOLUBILITY IN 80% ETHANOL @ 20°C:	1 + 2
SOLUBILITY IN VEGETABLE OILS:	Soluble
SOLUBILITY IN WATER:	Insoluble

Typical Analysis by GLC/GCMS:

CONSTITUENT	PERCENTAGE
Alpha Pinene	1.9
Camphene	0.9
Myrcene	1.6
Alpha Terpinene	1.0
Gamma Terpinene	6.5
Limonene	2.0
Trans Sabinene hydrate	0.1
Linalool	4.1
Terpinen-4-ol	1.2
Borneol	2.6
Thymol	41.0
Carvacrol	26.0

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

Moderate dermal irritant; strong mucous membrane irritant. Acute oral LD50: 4.7g/Kg. Thyme oil (red):see FIFM monograph (1974) FCT12, 1003 Special Issue 1 (Binder p704).

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 Item 31/c RID no 301; ADR RN n/2301

AIR (IATA/ICAO): Class 3 Packing group III

SEA (IMDG): Class 3

CHIP: See section 15

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

HAZARDS: Irritant, Flammable

SYMBOLS: Xi

RISK PHRASES: R10: Flammable liquid

SAFETY PHRASES: S24/25 Avoid contact with skin & eyes.

16. Other Information

Cosmetics Directive 7th Amendment: Not restricted

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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