

MATERIAL SAFETY DATA SHEET

1. Identification of Substance/Preparation & Company

PRODUCT NAME: Ginger Oil PRODUCT CODE: GINGER

SUPPLIER: Green Valley Aromatherapy Ltd.,

505 Duncan Ave, Courtenay, BC CANADA V9N 2M6

Emergency Tel No: (250) 334-4836. Contact Person: Kelly Lees

2. Composition / Information on Ingredients

DEFINITION/BOTANICAL ORIGIN: By steam distillation of the ground, dried rhizomes of *Zinger officinalis*. (L) Rosc.

(Fam. Zingiberaceae)

H-No:3301.30 CAS No: 8007-08-7 Status:natural CoE No:489 FEMA:2522 Additives:none

FDA:§ 182.20 IFRA:not restricted Application: Aromatherapy, cosmetics, skincare haircare, candles, soaps, perfumery,

RTECS: FCCIV: flavours

INCI name: Zingiber officinalis

3. Hazards Identification

R10 Flammable liquid

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 sprav.

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 Remove all potential ignition sources. Contain spilled material. Cover with an inert or

FOR SPILLAGES: 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: Pale yellow to brown

APPEARANCE: Mobile liquid

ODOUR: Aromatic, ginger

FLASH POINT °C: 67

SPECIFIC GRAVITY @ 20°C: 0.868 – 0.883

OPTICAL ROTATION @ 20°C:

REFRACTIVE INDEX @ 20°C: 1.480 – 1.494

SOLUBILITY IN 75% ETHANOL @ 20°C:

SOLUBILITY IN VEGETABLE OILS: Soluble
SOLUBILITY IN WATER: Insoluble

Typical Analysis by GLC/GCMS:

CONSTITUENT	PERCENTAGE
alpha Pinene	3.6
Camphene	9.9
Beta Pinene	1.0
Alpha Phellandrene	1.3
Limonene	4.9
Beta Phellandrene	9.2
6-methylhept-5-ene-2-one	0.9
Borneol	3.1
Zingiberene	32.5
Beta Bisabolene	4.6
Alpha Farnesene	9.5
Beta Sesquiphellandrene	3.4

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 sensitising and not photo-toxic to human skin. Acute oral LD50: >5g/kg. Acute dermal LD50: >5g/kg. No irritant effect on skin at 4%.

12. Ecological Information

BIODEGRADABILITY: Data not available

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

13. <u>Disposal Considerations</u>

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: Flammable

SYMBOLS: n/a

RISK PHRASES: R10 Flammable liquid

SAFETY PHRASES: S16 Keep away from sources of ignition: No Smoking.

16. Other Information

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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