
OREGANO OIL
MATERIAL SAFETY DATA SHEET

1. Product Identification:

Product Name: OREGANO OIL

Botanical Name: Origanum vulgare
Synonyms: Origanum vulgare L. ssp. gracile (K. Koch) Ietsw.,
Origanum tyttanthum Gontsch. Origanum
INCI Name: vulgare leaf oil
CAS #: 8007-11-2
County of Origin: INDIA

2. Classification:

Chemical Identification: Oils, origanum
UN No. 1169: Liquid aromatic extract. Packaging Group: III Class: 3

3. Hazardous Ingredients Information:

Carvacrol (CAS# 207-889-6) – toxic. Risk phrase: R22, R65, R38 **4.**

Physical & Chemical Properties:

Appearance: Light yellow to reddish yellow liquid.
Odor: Characteristic pungent warm spicy odor.
Solubility: Soluble in alcohol and oils. Insoluble in water.
Specific Gravity: 0.9350 – 0.9710 @ 25°C
Optical Rotation: -5.0 – +5.0 @ 20°C
Refractive Index: 1.508 – 1.5200 @ 20°C
Carvacrol: 75 – 90 %
Thymol: 0.5 – 3.5 %
Acid Value:: < 1.0
Extraction Method: Steam distillation of the herb.
Contents: Carvacrol, thymol, limonene, terpinene, ocimene, caryophyllene,
 β -bisabolene, *p*-cymene, linalool, 4-terpineol
Flash Point: 145 °C

5. Fire/Explosion Hazard:

Flash Point: 61 °C closed cup

Combustible liquid. Will ignite if moderately heated

6. Reactivity/Stability Data:

Reactivity: Stable.

Decomposition: When heated to decomposition produces toxic fumes/carbon monoxide smoke.

7. Toxicological Properties/Information: Acute Oral (rats), LD₅₀ > 1850 mg/kg

Acute Dermal (rabbits), LD₅₀ > 320 mg/kg

Very hazardous in case of eye contact (irritant) - Inflammation of the eye is characterized by redness, watering, and itching. Mucus membrane irritant.

Hazardous in case of skin contact (irritant, permeator), ingestion and inhalation – skin irritant. Severe over-exposure can result in death.

8. Preventive Data:

Spillage: Absorb spills, cover with an inert, non-combustible, inorganic absorbent material, and remove to an approved disposal container.

Fire: Recommended extinguishing media – CO₂, foam and dry chemicals. DO NOT use direct water jet on burning material.

Environment: Keep away from drains, surface and ground water.

Storage: Store in cool, dry and well ventilated area protected in tightly closed container away from sources of ignition, heat and sunlight. Keep air contact to minimum.

9. First Aid Measures:

Eye contact: Flush with water for at least 15 minutes. Call physician if irritation persists.

Inhalation: Remove to fresh air. Avoid casual breathing.

Ingestion: Rinse mouth and consult a physician immediately. Never-give anything by mouth if victim is unconscious, is rapidly-losing consciousness, or is convulsing.

Skin contact: Remove contaminated clothing. Wash with soap and plenty of water.

10. Individual Protection for Industrial and Bulk Use:

Use safety glasses.

Avoid breathing in product by ensuring good ventilation when handling.

Avoid skin contact by using chemical resistant gloves.

11. Preparation Information:

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Please note, the International Federation of Aromatherapists do not recommend that Essential Oils be taken internally unless under the supervision of a Medical Doctor who is also qualified in clinical Aromatherapy. In addition, Essential Oils must be properly diluted before use in order to avoid any damages to property or adverse physical effects (including injury or bodily harm).