



RV INTERNATIONAL

Essential Oils Manufacturer & Bulk Supplier in India

GST NO. 06BGIPG9360E1ZF

Address: Opposite Sudhanshu Maharaj Ashram, Shiv Mandir, Nimbri, Panipat, Haryana 132104

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1.1 — PRODUCT IDENTIFICATION

PRODUCT NAME: THYME ESSENTIAL OIL

BOTANICAL NAME: Thymus vulgaris

CHEMOTYPE: Thymol CT (Red Thyme) — the most common commercially available thyme oil

COMMON NAMES: Red Thyme Oil / Garden Thyme Oil / Common Thyme Oil

MOLECULAR FORMULA: NOT APPLICABLE

MOLECULAR WEIGHT: NOT APPLICABLE

CAS No.: 8007-46-3

FEMA No.: 3064

CHEMOTYPE NOTE: Thyme oil exists in multiple chemotypes (thymol CT, carvacrol CT, linalool CT, geraniol CT, etc.). This product is Thymol CT (Red Thyme) — the standard commercial grade and most potent. Linalool CT Thyme is a milder, safer alternative for sensitive applications.

SECTION 1.2 — COMPANY IDENTIFICATION

Company Name: RV International

Address: Shiv Mandir, Ujha Rd, Opposite Sudhanshu Aashram, Nimbri, Panipat, Haryana 132104

Telephone: +91 8937003005

Email: info@rvorganica.com

Website: www.rvorganica.com

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS #	HAZARDOUS STATEMENT
THYME ESSENTIAL OIL (Thymus vulgaris — Thymol CT)	8007-46-3	Contains thymol — irritant & sensitizer; use with caution

HAZARDOUS CLASSIFICATION: NOT A HAZARDOUS SUBSTANCE UNDER NORMAL DILUTED COSMETIC USE — REQUIRES SIGNIFICANT CAUTION DUE TO HIGH THYMOL AND CARVACROL CONTENT.

*PERSONAL CARE, COSMETIC & AROMATHERAPY PURPOSE. Thyme essential oil (Thymol CT) is steam distilled from the fresh or partially dried aerial parts of Thymus vulgaris. Thymol CT (Red Thyme) is the most widely used commercial grade, dominated by thymol (36–55%) and p-cymene (14–28%). It is one of the most potent antimicrobial essential oils available. Due to its high phenolic content, it requires careful handling and significant dilution before any skin application.

SECTION 3: HAZARD IDENTIFICATION

CAUTION: High thymol and carvacrol (phenolic) content — strong irritant and sensitizer. Must be used at very low dilutions only. IFRA usage limits apply.

Eye Contact: Strong irritant — will cause significant irritation; avoid all direct contact

Skin Contact: STRONG IRRITANT when undiluted — thymol and carvacrol cause skin burns and sensitization; maximum 1% for leave-on skin products

Inhalation: Concentrated vapors are pungent and irritating — use only in well-ventilated areas



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Ingestion: TOXIC in significant quantities. NOT FOR INTERNAL USE as a cosmetic product.

SECTION 4: FIRST AID MEASURES

Eyes: Flush immediately with plenty of water for at least 15 minutes. Get immediate medical attention.

Skin: Remove contaminated clothing. Wash with soap and flush with plenty of water. Seek medical attention if burns, irritation, or allergic reaction develops.

Ingestion: Rinse mouth and drink water to dilute. Seek medical attention immediately — thymol is hepatotoxic in large doses.

Inhalation: Remove to fresh air. Seek medical attention if respiratory symptoms develop.

SECTION 5: FIRE AND EXPLOSION DATA

Flash Point (Method Used): >48°C Close Cup

Extinguishing Media: Dry Chemical, Carbon Dioxide, Foam

Unsuitable Media: Water (except to cool containers)

Special Firefighting Procedures: Fire fighters should wear positive pressure self-contained breathing apparatus. Toxic phenolic vapors may be released. Cool containers exposed to flame with water.

Unusual Fire & Explosion Hazards: Low flash point — keep away from heat and open flame

Hazardous Decomposition Materials: Phenolic compounds and smoke on combustion

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear chemical resistant gloves, eye protection, and apron. Avoid inhalation. Ventilate area well.

Methods for Cleaning Up: Eliminate all sources of ignition. Ventilate area. Prevent liquid from entering sewers.

- Small spills: wipe up with paper rags (place in closed metal waste container)
- Large spills: absorb onto non-flammable absorbent. Wash area with soap and water.

SECTION 7: HANDLING AND STORAGE

Safe Handling: Avoid ingestion and undiluted skin contact. ALWAYS dilute heavily — maximum 1% for leave-on skin products; even 1% may cause irritation in sensitive individuals. Wear gloves when handling. Avoid concentrated vapor inhalation. Keep away from heat and open flame.

Storage Requirements: Store in a cool, dark, dry, well-ventilated area. Keep tightly sealed. Temperature below 25°C.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Threshold Limit Value: Not established; Thymol — use with caution; phenolic compound

Work Practice Controls: Strict personal hygiene protocols. Gloves mandatory.

- Wear chemical resistant gloves when handling undiluted oil
- Avoid concentrated vapor inhalation — irritating to mucous membranes
- Wash hands thoroughly after handling

Respiratory: Avoid concentrated inhalation — pungent and irritating

Ventilation: Local mechanical exhaust recommended when handling in bulk

Eye: Wear chemical goggles or safety glasses

Skin: Chemical resistant gloves mandatory when handling undiluted



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid, Oil

Color: Pale Yellow to Red (Red Thyme — phenolic compounds give characteristic red-orange tinge)

Odor: Characteristic sharp, warm, spicy, herbaceous, thyme scent

Vapor Pressure (mmHg.): Not available

Flash Point: >48°C (Closed Cup) — low flash point; keep away from ignition sources

Boiling Point: Not available

Melting Point: NA

Density @25°C: 0.906

Refractive Index @25°C: 1.496

Solubility in Water: Insoluble

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions

Incompatibility (Materials to Avoid): Avoid contact with strong oxidizing agents and hot sources of ignition.

Conditions to Avoid: Avoid contact with sparks, flame, heat, and direct sunlight.

Hazardous Decomposition By-products: Phenolic compounds and smoke on combustion.

Hazardous Polymerization: Will Not Occur

SECTION 11: TOXICOLOGICAL INFORMATION

■ **CAUTION: Thymol CT (Red Thyme) is a strong irritant due to high phenolic content (thymol + carvacrol). Must be used at low dilutions. IFRA usage limits for thymol apply.**

Primary Components of Concern: Thymol (36–55%) and Carvacrol (1–5%) — phenolic compounds; strong irritants and sensitizers

Irritancy: STRONG irritant when undiluted — can cause skin burns and mucosal irritation

Sensitization: Known sensitizer — individuals sensitive to thyme, oregano, or phenol-containing oils should use with caution and conduct a patch test

Cross-Reactivity: Ajwain, Oregano, Savory — all high-thymol oils; cross-reactivity likely in sensitized individuals

Hepatotoxicity: Thymol is hepatotoxic in large oral doses — strictly for external cosmetic use only

Contraindications: Pregnancy, breastfeeding, children under 5, individuals with thymol/thyme sensitivity, individuals with liver disease

Max Skin Use: Maximum 1% dilution for leave-on skin products; max 5% for rinse-off

Note: Thyme Thymol CT (Red Thyme) is a powerful antimicrobial essential oil. Always use heavily diluted. If a milder thyme is required, consider Thyme Linalool CT which is far gentler on skin. Patch test essential. Not for pregnancy or children under 5.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATION

Waste Disposal Methods: Dispose of according to local, state and federal regulations. Do not pour down drains.



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SECTION 14: OTHER REGULATORY INFORMATION

CAS NO: 8007-46-3

FEMA No.: 3064

Chemotype: Thymol CT (Red Thyme) — standard commercial grade

Primary Hazardous Constituents: Thymol (36–55%), p-Cymene (14–28%), γ -Terpinene, Carvacrol

IFRA Status: Thymol subject to IFRA usage limits — maximum 1% in leave-on products

Cross-Reactivity: Ajwain, Oregano, Savory — phenolic oils; possible sensitization cross-reactivity

Contraindications: Pregnancy, breastfeeding, children under 5, thymol sensitivity, liver disease

Hazards: Strong irritant; sensitizer; low flash point; high thymol content

Safety Phrases: NEVER apply undiluted. Max 1% for leave-on skin use. Patch test essential. Wear gloves. Low flash point — keep away from heat and flame. NOT during pregnancy. NOT for children under 5. Keep out of reach of children.

SECTION 16: ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

The information contained in this Material Safety Data Sheet is obtained from current and reliable sources. The information contained herein is true and to the best of RV International's knowledge. Nothing herein should be interpreted as a recommendation to infringe existing patents or violate any laws or regulations.



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