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**MATERIAL SAFETY DATA SHEET**

June 2003

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**I. PRODUCT IDENTIFICATION**

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**Tradename:** Cold Pressed Grapefruit Oil  
**Product Code:** 337000  
**CAS Number:** 8016-20-4

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**II. HAZARDOUS INGREDIENTS**

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**Materials:** N/A

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**III. EMERGENCY CONTACT**

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**ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE,  
EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS**

**CHEMTREC**

United States Shipments **(800) 424-9300**

Outside United States: **Call CHEMTREC Collect**

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**IV. PHYSICAL DATA**

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**Appearance:** Clear to pale yellow oil  
**Odor:** Similar to fresh grapefruit  
**Specific Gravity (25° C):** 0.848 – 0.858  
**Refractive Index (20° C):** 1.4750 – 1.4780  
**Optical Rotation (25° C):** +91° - +96°  
**Aldehyde, % (as decyl):** 1.0 – 1.6  
**Flashpoint (cc):** 118°F/48° C  
**Boiling Point:** 349° F  
**Evaporation Rate:** Slow  
**Water Solubility:** Insoluble  
**Vapor Density (air = 1):** Over 1  
**Vapor Pressure (20° C):** 2mmHg  
**Percent Volatile by Volume:** 98%

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**V. FIRE & EXPLOSION HAZARD DATA**

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**Flashpoint (CC):** 118°F  
**Flammable Limits:** LEL = Not Available UEL = Not Available  
**Extiguishing Media:** Carbon dioxide, foam or dry chemical  
**Special Fire Fighting Procedures:** SCBA recommended. Smother to exclude air. Do not use water. Handle as an oil fire.  
**Unusual Fire & Explosion Hazards:** Combustible liquid. Keep away from heat, sparks, and open flame.  
**Incompatibility (Materials to avoid):** Strong oxidizing agents.

## MATERIAL SAFETY DATA SHEET (cont.)

337000 - Cold Pressed Grapefruit Oil

**Hazardous Decomposition Products:** Not Available.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid for Polymerization:** Not Available.

**Stability Considerations:** Stable.

**Conditions to Avoid for Stability:** Avoid temperatures over 118° F.

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### VI. HEALTH HAZARD DATA

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**Health Hazards (Acute and Chronic):** Product is a moderate irritant, slight allergen, moderate ingestion and slight inhalation hazard under acute local application. Slight allergen under chronic local application.

**This Product Contains NO Carcinogens (NTP, IARC or OSHA)**

**Signs and Symptoms of Exposure:** Product may be irritating to the skin, eyes, nose and throat.

**Medical Conditions Generally Aggravated by Exposure:** Persons with allergies or pre-existing skin conditions should avoid contact with this product.

#### **Emergency First Aid & Procedures:**

**Eyes:** Remove contact lenses at once. Flush with water for at least 15 minutes. If irritation persists, seek medical attention.

**Skin:** Wash affected area with copious amounts of soap and water. If irritation develops, seek medical attention.

**Ingestion:** Seek medical attention immediately. Do not leave victim unattended.

**Inhalation:** If symptoms of overexposure are experienced, evacuate to fresh air. If symptoms persist, seek medical attention.

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### VII. SPILL OR LEAK PROCEDURES

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**Steps to be Taken if Material is Released or Spilled:** Use protective gloves to avoid skin contact. Small spills can be wiped up. Large spills should be absorbed by dirt, sand, or other suitable absorbents for disposal. Do not hose down drains, sewers, or waterways. Cold Press Grapefruit Oil may be toxic to aquatic organisms. Move leaking containers to well ventilated area. No smoking. Eliminate any source of ignition. Minimize inhalation. Use NIOSH approved respiratory protection device. CAUTION: slippery on floor.

**Waste Disposal Method:** Incinerate or Dispose in Accordance with Local, State, and Federal Regulations. Taking regulations into consideration, waste may be incinerated or handled through EPA spill control plan via land fill or dilution.

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### VIII. SPECIAL PROTECTION INFORMATION

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**Respiratory Protection:** Not normally required. If vapor concentration becomes high, use NIOSH approved respirators.

**Ventilation:** Local exhaust should be adequate. Mechanical ventilation otherwise recommended if necessary.

**Skin Protection:** Oil resistant gloves

**Eye Protection:** Oil resistant goggles

**Other Protective Equipment:** Oil Resistant Apron, emergency eye wash and shower stations.

**Appropriate Hygienic Practices:** Wash thoroughly after handling. Launder contaminated clothing before re-use.

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### IX. SPECIAL PRECAUTIONS

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**Precautions to be Taken in Handling and Storing:** Usual precautions for combustible liquids.

**Handling and Storage Precautions:** Store in sprinklered warehouse. Avoid contact with incompatible chemicals listed in Section VI. Store in tightly sealed, full containers at temperatures below 80° F. Partially filled containers should be blanketed with nitrogen.

# MATERIAL SAFETY DATA SHEET (cont.)

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## X. TRANSPORTATION INFORMATION

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**TDG Status:** Hazardous

**IMO Status:** Hazardous

**IATA Status:** Hazardous

DOT Label/Placard [exemption 173.150(f) applies]:

Highway/Rail: per requirements for Combustible Liquids

Air/Ship: per requirements for Flammable Liquids

### SHIPPING CLASSIFICATION:

**Proper Shipping Name:** TERPENE HYDROCARBONS, N.O.S.

**Hazard Class:** 3

**Identification No.:** UN2319

**Packing Group:** III

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

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