MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

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

II. HAZARDOUS INGREDIENTS

Materials: N/A

III. EMERGENCY CONTACT

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

IV. PHYSICAL DATA

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%

V. FIRE & EXPLOSION HAZARD DATA

Flashpoint (CC): 118°F
Flammable Limits: LEL = Not Available  UEL = Not Available
Extinguishing 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.
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.

VI. HEALTH HAZARD DATA

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.

VII. SPILL OR LEAK PROCEDURES

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.

VIII. SPECIAL PROTECTION INFORMATION

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.

IX. SPECIAL PRECAUTIONS

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.
X. TRANSPORTATION INFORMATION

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.

The information contained herein is based on current knowledge and experience: no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information obtained by the user. No warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers, and the protection of the environment. This information is furnished upon the condition the person receiving it shall determine the suitability for the particular purpose. This MSDS is to be used as a guideline for safe work practices and emergency response.