

John Steele
3949 Longridge Ave.
Sherman Oaks
California 91423
Tel. (818) 986-0594

Certificate of Analysis

PRODUCT INFORMATION

Date of Certificate: January 1st, 2017

Common Name of Product: Turmeric CO2 select extract

Synonyms: N/A

Botanical Name of Product: Curcuma longa

Product/Lot#:

CAS #: 84775-52-0

Tariff Code: N/A

Country of Origin: India

Part of Plant Used: rhizomes

**Extraction/Distillation method: co2 extraction of roots of the plant
Curcuma longa**

ANALYSIS SPECIFICATIONS

Yield: 18 - 25 kg raw material yield 1 kg product.

Appearance: dark yellow viscous liquid

Odor: warm, spicy, woody, powdery

Cultivation Method: conventional

Use/Application: In natural perfumery used in Oriental bases, culinary perfumes, sacred essences, incense bases, spice accords

Specific Gravity/Density and 68F/20C: .950

Refractive Index at 68F/20C: n/a

Solubility: soluble in carrier oils

Optical Rotation: N/A

Flash Point: >140F/>61C

Major Constituents: alpha- and beta-turmerone and ar-turmerone; in addition alpha-phellandrene, alpha-zingiberene, sesquiphellandrene.

This information, obtained from current and reliable sources and from an examination of the product, is believed to be up-to-date and accurate, but is provided without any warranty, expressed or implied. It is the responsibility of the customer to examine the product and to determine, in advance, the safe and appropriate conditions for its use, in compliance with all applicable laws and regulations.

John Steele
3949 Longridge Ave.
Sherman Oaks
California 91423
Tel. (818) 986-0594

Material Safety Data Sheet

1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

Common name: Turmeric CO2 total

Latin name: Curcuma longa

Process: co2 extraction of roots of plant growing in India

2. COMPOSITION / INFORMATION ON INGREDIENTS.

CAS #: 84775-52-0

FEMA #: N/A

HTC #: N/A

3. HAZARDS IDENTIFICATION:

Concentrated product: Do not ingest. Keep away from children and in safe location.

4. FIRST-AID MEASURES:

Inhalation: If headache, nausea, or drowsiness occurs, remove to fresh air and consult a physician

Eye Contact: Remove contact lenses, Flush eyes with cool water for at least 15 minutes. If irritation persists, consult a physician.

Skin Contact: Remove contaminated clothing and shoes. Wash effected area thoroughly with soap and water. Consult a physician if symptoms persist.



Ingestion: If conscious and can swallow, given water to dilute and consult a physician or poison control center immediately

5. FIRE FIGHTING MEASURES.

Extinguishing media: Use CO₂, Dry Powder or Foam type Extinguishers, spraying recommended: extinguishing media to base of flames. Do not use direct water jet on burning material.

Special measures: Avoid vapor 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 spray.

6. ACCIDENTAL RELEASE MEASURES.

Procedures in Case of Accidental Release, Breakage or Leakage: Remove any source of ignition. If in confined area, use NIOSH approved respiratory protection and other protective equipment. Absorb the spilled material with vermiculite or other absorbent material. Avoid inhaling vapor. Avoid contact with skin, eyes and clothing. Dispose of material in accordance with local, state, and federal laws and regulations.

7. HANDLING & STORAGE.

Precautions in handling: Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, and 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 vapor. 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.

Appearance / Color: dark yellow viscous liquid

Odor: earthy powdery rooty

Flash point: >142F/>61C

Specific gravity/density (at 68F/20C): < 0,950

Refractive index (at 68F/20C): N/A

10. STABILITY & REACTIVITY.

Protect from light and air

Avoid sources of ignition

Avoid contact with strong acids, alkali or oxidizing agents

Usually stable

11. TOXICOLOGICAL INFORMATION

N/A

12. ECOLOGICAL INFORMATION.

Do not allow to enter water, waste water or soil.

13. DISPOSAL CONSIDERATIONS.

Dispose in accordance with state, local and federal regulations

14. TRANSPORT REGULATIONS.

Ground Shipping (USDOT): Not regulated

Air Shipping (IATA): Not Regulated

Ocean Shipping (IMDG): Not Regulated

15. REGULATORY INFORMATION.

N/A

16. OTHER INFORMATION

Disclaimer: The information in this MSDS was obtained from current and reliable sources. However the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. It is the user's responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage, or, expense resulting from improper use of this product.