

江西海瑞天然植物有限公司  
JIANG'XI HAIRUI NATURAL PLANT CO. LTD.

ADD: #267 JiaHua Avenue, JingGangShan E.D.Z., Ji'an, Jiangxi, PR CHINA. Zip code: 343100  
Tel: 0796-8107398 Fax: 0796-8108396 Website: www.jxhairui.com

# MATERIAL SAFETY DATA SHEET OF SWEET ORANGE OIL

## 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Sweet Orange Oil  
**Manufacture:** Jiang'xi Hairui Natural Plant Co. Ltd.  
**Address:** #267 JiaHua Avenue, JingGangShan E.D.Z., Ji'an, Jiangxi, PR CHINA.  
**Post code:** 343100  
**Fax:** 86-0796-8108396  
**Tel:** 86-0796-8107398

## 2. COMPOSITION/INGREDIENT INFORMATION

**Ingredients:** Sweet orange  
**Hazardous Components:** None  
**CAS #:** 8008-57-9

## 3. HAZARDS IDENTIFICATION

This item is not belonging to the dangerous product.

### Routes of Entry

**Eye Contact:** Irritation will occur with possible damage  
**Skin Contact:** May cause irritation or allergic dermatitis upon prolonged exposure  
**Inhalation:** Inhalation may cause irritation in throat and lungs. High concentrations of vapor may cause anesthetic effects.

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**Ingestion:** Harmful if swallowed

#### 4. FIRST AID MEASURES

**Eyes:** Flush with plenty of water or eye wash solution for 15 minutes. Get medical attention if irritation persists.

**Skin:** Remove contaminated clothing. Wash with soap and flush with plenty of water. Seek medical attention if irritation persists.

**Ingestion:** Administer water or milk to dilute. Seek medical attention immediately or call a poison control center.

**Inhalation:** Avoid gross inhalation of fumes. Remove to fresh air and seek medical attention if needed.

#### 5. FIRE FIGHTING MEASURES

**Flammability of the Product:** May be combustible at high temperature.

**Auto-ignition Temperature:** Not available.

**Flammable Limits:** Not available.

**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>).

**Fire Hazards in Presence of Various Substances:** Not available.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

#### 6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

**Personal Protection:**

**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

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Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## 7. HANDLING AND STORAGE

### Handling

Avoid ingestion

Follow good industrial practice as to housekeeping, personal hygiene and avoidance of prolonged or repeated contact with the skin or eyes.

Wear eye protection, gloves and aprons. Ventilate area well or wear approved respirators.

### Storage

Place in cool and dry area.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state and appearance:** Oil

**Odor:** Red Orange

**Taste:** Not available.

**Color:** red or palm transparent liquid with characteristic flavor of sweet orange peel

**Part used:** Sweet Orange.

**Relative Density:** 0.8431—0.8491

**Flash Point:** 133 ° F

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**Refractive Index:** 1.4700—1.4790

**Optical Rotation:** +80° — +105°

**Acid Value:** ≤2.0

**Ester Value:** ≥2.0

**Solubility:** Soluble in 75% ethanol

**Content Ester:** 85% of the limonene and 99% of the volatile oil

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Conditions to Avoid:** Excessive heat

**Incompatibility (Materials to Avoid):** Avoid strong oxidizers

**Hazardous Decomposition or Byproducts:** Forms CO and/or CO<sub>2</sub> upon burning

**Hazardous Polymerization:** Will Not Occur

## 11. TOXICOLOGICAL INFORMATION

**Routes of Entry:** Eye contact. Inhalation. Ingestion.

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:**

Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Not available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available

**Persistence and Degradability:** No information available on persistence/degradability for this product.

**Bioaccumulative Potential:** No information available on bioaccumulation for this product.

**Products of Degradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of Products of Degradation:** The products of degradation are more toxic

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods:** Do not put into sewer lines. Dispose of according to local, state and federal regulations.

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#### 14. TRANSPORT INFORMATION

**Maritime Transport:** N/A

**Air Transport:** N/A

**Package:** 200kg/Galvanized iron drum

#### 15. ADDITIONAL INFORMATION

This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate. However, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

This safety sheet cannot cover all possible situations which the user may experience during processing.

Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.