



## Material Safety Data Sheet Bitter Orange Oil

### 1- Product Information

- **Chemical Name:** Bitter Orange Oil
- **Botanical Name:** Citrus Aurantium Var.
- **INCI Name:** *Citrus Aurantium Amara Peel Oil*
- **HS CODE:** 330113
- **Country of Origin:** Egypt

**Manufacturer Name:** GMS TRADE

**Factory:** (110) Bayad Al Arab Industrial Zone, Beni-Suef Governorate, Egypt

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### 2- Physical and Chemical Properties

- **Physical State:** Mobile, pale yellow to greenish-yellow liquid.
- **Odor:** Fresh, citrusy, slightly bitter.
- **Flash Point:** ~45°C - 55°C
- **Boiling Point:** ~176°C
- **Melting Point:** Not available
- **Specific Gravity:** 0.865 – 0.885 @20°C
- **Refractive Index:** 1.472 – 1.476 @20°C

### 3- Composition / Ingredient Information

- **Definition:**  
Essential oil produced by cold pressing of the fresh outer peel of the *Citrus aurantium var.* (Fam. Rutaceae).
- **Status:** Natural products, food and fragrance grade.
- **CAS EINECS (EU):** 68916-04-1
- **CAS TSCA (US):** 68916-04-1
- **EU FL No.:** 2823
- **FEMA Number:** 2823



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#### 4- Hazards Identification

##### Routes of Entry:

- **Eye Contact:** Irritation will occur.
- **Skin Contact:** May cause irritation upon prolonged exposure.
- **Inhalation:** May cause irritation.
- **Ingestion:** Ingestion in large doses may cause human death.

#### 5- First Aid Measures

##### (MEASURES TO BE TAKEN IN CASE OF ACCIDENTAL DISPERSION)

- **Skin:**  
Remove contaminated clothing. Wash with soap and flush with plenty of water. Seek medical attention if irritation persists.
- **Eyes:**  
Flush with plenty of water or eye wash solution for 15 minutes.  
Get medical attention if irritation persists.
- **Inhalation:**  
Avoid gross inhalation of fumes. Remove to fresh air and seek medical attention if needed.
- **Ingestion:**  
Administer water or milk to dilute. Seek medical attention immediately or call a poison control center.
- **Note:**  
If irritation persists, seek medical attention and show label of the container.

#### 6- Fire Fighting Measures

- **Flash Point (Method Used):** 80°C to 90°C
- **Extinguishing Media:** Dry chemical, Carbon dioxide, Foam. Do not use water jet.
- **Special Firefighting Procedures:** Fire fighters should wear positive pressure self-contained breathing apparatus. Cool containers exposed to flame with water spray extinguishing media directly into base of fire.
- **Unusual Fire & Explosion Hazards:** Not established

#### 7- Accidental Release Measures

- **Personal Precautions:**  
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.





- **Environmental Precautions:**

Eliminate all sources of ignition. Ventilate area. Prevent liquid from entering sewers. Small spills can be wiped with paper rags (place in closed metal waste container). Large spills can be absorbed onto non-flammable absorbent. Wash area with soap and water.

### 8- Handling and Storage

- **Precautions in Handling:**

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

- **Storage Conditions:**

Store in tightly closed original containers, in a cool, dry, and well-ventilated area away from heat sources and protected from light.

*(Do not expose to temperatures over 35°C).*

### 9- Transport IATA-DGR – Maritime Transport IMDG – Land Transport ADR/RID

(Not classified as dangerous according to transport rules)

Class	Not Applicable
UN	Not Applicable
Packing Group	Not Applicable

### 10- Exposure Control / Personal Protection

- **Threshold Limit Value:** Not established
- **OSHA Permissible Limit:** Not established
- **Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eye wash stations and safety showers are proximal to the workstation location.

- **Work Practice Controls:**

Personal hygiene is an important work practice exposure control measure, and the following general measures should be taken when working with or handling this material:

1. Do not store, use, or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
2. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
3. Wash exposed skin promptly to remove any accidental splashes or contact with this material.





- **Respiratory:** Avoid casual breathing of vapors.
- **Ventilation:** Local, mechanical exhaust is recommended.
- **Eye Protection:** OSHA-approved safety glasses.
- **Skin Protection:** Wear gloves and clothing to avoid skin contact.

#### 11- Stability and Reactivity

- **Stability:** This material is stable under normal conditions.
- **Incompatibility (Materials to Avoid):** Avoid contact with strong oxidizing agents and avoid hot work and sources of ignition on or near empty containers.
- **Conditions to Avoid:** Avoid contact with sparks, flame and heat.
- **Hazardous Decomposition:** CO, CO<sub>2</sub>, smoke and unidentified organic compounds may be formed during combustion.
- **Hazardous Polymerization:** Will not occur.

#### 12- Toxicological Information

- **Health Hazards (Acute & Chronic):**
- **Ingestion of large quantities:** None established
- **Inhalation:** None established
- **Skin contact:** Liquid may be irritating.
- **Eye contact:** Liquid may be irritating.

#### Main Toxicological Data for:

- Acute Oral Toxicity LD50: 4500 mg/kg

#### Literature

- Acute Dermal Toxicity LD50: 2000 mg/kg

#### 13- Ecological Information

- **Biodegradability:** Data not available
- **Precautions:** Prevent surface contamination of air, soil, ground and surface water.

#### 14- Disposal Considerations

- **Waste Disposal Methods:** There should be no product residues. Dispose according to local, state and federal regulations.





## 15- Regulatory Information

The product has been classified and marked in accordance with directives on hazardous materials. Hazardous reaction will not occur under normal Transport or storage conditions.

### Risk Phrases:

- **H226:** Flammable liquid and vapor
- **H302:** Harmful if swallowed
- **H315:** Causes skin irritation
- **H317:** May cause allergic skin reaction

### Safety Phrases:

- **P102:** Keep out of reach of children
- **P210:** Keep away from heat/open flames
- **P280:** Wear protective gloves/eye protection
- **P305+P351+P338:** IF IN EYES: Rinse cautiously
- **P301+P310:** IF SWALLOWED: Call poison centre

## 16- Other Information

This information is provided for documentation purposes only. This product is not considered hazardous under normal conditions of use. 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. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

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 were, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.

