

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Clove Essential Oil
Botanical name	Syzygium Aromaticum
CAS #	8015-97-2
Product use	Domestic and Industrial
Supplier	TR GLOBAL PHARMA
Address	Marmara Mh. 115 Sk. No:4A/17 Beylikdüzü,İstanbul,Türkiye
Telephone number	+90 545 382 14 62
Emergency phone number	+90 545 382 14 62

## 2. HAZARD(S) IDENTIFICATION

### GHS Hazard Classification

- Acute Toxicity, Oral - Category 5
- Acute Toxicity, Dermal - Hazard Category 5
- Skin Corrosion/Irritation - Category 3
- Skin Sensitization - Category 1
- Serious eye damage/eye irritation - 2A
- Hazardous to the aquatic environment - Acute Category 2

### GHS Label Elements

Pictogram  
Signal Word



Warning

### Hazard Statements

H227 Combustible liquid.  
H302 Harmful if swallowed.

### Precautionary Statements - Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P264 Wash face, hands and any exposed skin thoroughly after Handling.

P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary Statements - Response**

P301+P312 If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 Rinse mouth.  
P370+P378 In case of fire: CO2, dry chemical, or foam to extinguish.

**Precautionary Statements - Storage**

P403+P235 Store in a well ventilated place. Keep cool.

**Precautionary Statements - Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

**Hazards Not Otherwise Classified (HNOC)**

No data available.

---

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

<u>Product Name</u>	<u>CAS_NO</u>	<u>Concentration</u>
Clove Oil	8015-97-2	100%

---

### 4. FIRST-AID MEASURES

**Description of first aid measures**

**Eye Contact**

Flush eyes with water as a precaution.

**Skin Contact**

Wash with soap and plenty of water.

**Inhalation**

Remove from exposure and move to fresh air. If not breathing, give artificial respiration.

**Ingestion**

Clean mouth with water. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

No data available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

---

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Specific hazards arising from the chemical**

No data available.

**Special protective equipment and precautions for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Further information**

No data available.

---

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapors, gas, or mist.

**Environmental precautions**

Keep away from drains, surface and groundwater. Report spills to appropriate authorities if required.

**Methods and materials for containment and cleaning up****Methods for containment**

Contain and collect spillage with non-combustible absorbent material (sand, earth, diatomaceous earth), and place in container for disposal according to local/national regulations.

**Methods for cleaning up**

Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up and shovel into suitable containers for disposal.

---

**7. HANDLING AND STORAGE****Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practices.

**Conditions for safe storage, including any incompatibilities****Storage conditions**

Keep in a dry, cool and well-ventilated place. Keep out of reach of children. Avoid direct sunlight.

**Incompatible materials**

None known based on information supplied.

---

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION****Control parameters**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Exposure controls****Engineering controls**

Provide showers, eyewash stations, and ventilation systems.

**Personal protective equipment**

Eye/Face protection: Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Skin/Body protection: Avoid contact with skin. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection: Respiratory protection not normally required.

## General hygiene considerations

Handle in accordance with good industrial hygiene and safety practices. Avoid breathing (dust, vapor, mist, gas). Regular cleaning of equipment, work area, and clothing is recommended.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Yellowish brown to dark brown
Odor	Characteristic clove odor
Flash point	> 93°C )
Specific gravity (@ 20°C)	1.042-1.063
Refractive index (@ 20°C)	1.528-1.538
Solubility	Soluble in alcohol and oils. Insoluble in water.
Extraction method	Steam distillation of the buds

---

## 10 . STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possible hazardous reactions

Hazardous polymerization will not occur.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute toxicity

No data available.

#### Skin corrosion/irritation

Adverse skin effects should be prevented by normal care and personal hygiene.

#### Serious eye damage/eye irritation

Possible irritation should be prevented by wearing safety glasses.

#### Respiratory or skin sensitisation

Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

None of the components of this material are listed as a carcinogen.

#### Reproductive toxicity

No data available.

#### Aspiration hazard

No data available.

---

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Toxic to aquatic organisms, may cause long-term adverse effects on the environment. Avoid any pollution of ground, surface or underground water.

### **Persistence and degradability**

No data available.

### **Bioaccumulative potential**

No data available.

### **Mobility in soil**

No data available.

### **Other adverse effects**

No data available.

---

## 13. DISPOSAL CONSIDERATIONS

### **Waste treatment methods**

#### **Product**

Dispose of product in accordance with local regulations.

#### **Contaminated packaging**

Do not reuse containers.

---

## 14. TRANSPORT INFORMATION

### **US DOT (Land)**

Not regulated.

### **IMDG/IMO (Sea)**

Not regulated.

### **IATA/ICAO (Air )**

Not regulated.

---

## 15. REGULATORY INFORMATION

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

### **GHS Hazard Statements**

Please refer to Section 2.

### **GHS Precautionary Statements**

Please refer to Section 2.

**Disclaimer & Caution:**

The information contained in Material Safety Data Sheet is obtained from current and reliable sources. The information contained herein is true and to the best of Tr Global Pharma's knowledge. Nothing herein should be interpreted as a recommendation to infringe existing patents or violate any laws or regulations. Final determination of the suitability of the material is the sole responsibility of the user. Customers should purchase products from Tr Global Pharma with the clear understanding that all products must be used at the customer's own discretion and only after referencing Material Safety Data Sheets (MSDS) and all other relevant technical information specific to the product. Tr Global Pharma shall not be held responsible for any damages to the property or for any adverse physical effects (including injury or bodily harm) caused by insufficient knowledge or the improper use of a product. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As with any manufacturing process, Tr Global Pharma strongly recommends small lab scale testing for evaluation purposes prior to full commercial manufacturing. The information on the Tr Global Pharma website is obtained from current and reliable sources but makes no representation as to its comprehensiveness or accuracy. Nothing contained herein should be considered as a recommendation by Tr Global Pharma as to the fitness for any use. As the ordinary or otherwise uses of this product is outside the control of Tr Global Pharma no representation or warranty, expressed or implied is made as to the effect(s) of such use(s) (including damage or injury), or the results obtained. The liability of Tr Global Pharma is limited to the value of the goods and does not include any consequential loss. Tr Global Pharma shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon.