

Section 1. Product and Company Identification

**Product Name** Mace Oil  
**CAS Number** 8007-12-3

**Parchem - fine & specialty chemicals**  
**415 Huguenot Street**  
**New Rochelle, NY 10801**  
☎ (914) 654-6800 ☎ (914) 654-6899  
🌐 [parchem.com](http://parchem.com) ✉ [info@parchem.com](mailto:info@parchem.com)

EMERGENCY RESPONSE NUMBER  
CHEMTEL  
Toll Free US & Canada: 1 (800) 255-3924  
All other Origins: 1 (813) 248-0585  
Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 2A  
Skin sensitization Category 1B  
Germ cell mutagenicity Category 2  
Carcinogenicity Category 2  
Aspiration toxicity Category 1  
Flammable liquids Category 3

**GHS Label Elements**

**Pictograms:**



**Signal word:** DANGER

**Hazard and precautionary statements**

**Hazard Statements**

Causes skin irritation  
Causes serious eye irritation  
May cause an allergic skin reaction  
Suspected of causing genetic defects  
Suspected of causing cancer  
May be fatal if swallowed and enters airways  
Flammable liquid and vapor



### **Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing should not be allowed out of the workplace  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ ventilating / lighting/ .? / equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Wear protective gloves/protective clothing/eye protection/face protection

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
Specific treatment (see .? on this label)  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention  
If skin irritation or rash occurs: Get medical advice/attention  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Do not induce vomiting  
In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

### **Precautionary Statements - Storage**

Store locked up  
Store in a well-ventilated place. Keep cool

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC):** None

### **Other information**

May be harmful if swallowed  
Toxic to aquatic life with long lasting effects  
Toxic to aquatic life  
Unknown Acute Toxicity

Section 3. Composition / Information on Ingredients

**Common Name** Mace Oil  
**Synonym(s)** Fats, nutmeg butter  
**CAS Number** 8007-12-3

COMPONENT	CAS NUMBER	CONCENTRATION
Alpha-Pinene	80-56-8	>= 25%
Terpinon-4-ol	562-74-3	10 – 15%
g-Terpinene	99-85-4	5 – 10%
α-Terpinene	99-86-5	5 – 10%
d-Limonene	5989-27-5	1 – 5%
Beta-Phellandrene	555-10-2	1 – 5%
Terpinolene	586-62-9	1 – 5%
Safrole	94-59-7	1 – 5%
Myrcene	123-35-3	1 – 5%
p-Cymene	99-87-6	1 – 5%
Methyl Eugenol	93-15-2	1 – 5%
Eugenol	97-53-0	0.1 – 1%
Caryophyllene	87-44-5	0.1 – 1%

Section 4. First Aid Measures

**First aid measures for different exposure routes**

**General advice:** Immediate medical attention is required. Show this material safety data sheet to the doctor in attendance. If symptoms persist, call a physician.

**Eye contact:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately. If symptoms persist, call a physician.

**Skin contact:** Wash off immediately with plenty of water. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**Inhalation:** Move to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Immediate medical attention is required. If not breathing, give artificial respiration. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

**Ingestion:** Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Clean mouth with water and afterwards drink plenty of water. Consult a physician.

**Protection of first-aiders:** Remove all sources of ignition. Use personal protective equipment.

**Notes to physician:** May cause sensitization of susceptible persons. Treat symptomatically.



#### Section 5. Firefighting Measures

**Suitable extinguishing media:** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol-resistant foam.

**Unsuitable Extinguishing Media:** Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical:** Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Keep product and empty container away from heat and sources of ignition. Risk of ignition. Flammable.

#### Explosion Data

**Sensitivity to Mechanical Impact:** None.

**Sensitivity to Static Discharge:** Yes.

**Protective equipment and precautions for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### Section 6. Accidental Release Measures

##### Personal precautions, protective equipment, and emergency procedures

**Personal precautions:** Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak.

##### Environmental precautions

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

##### Methods and materials for containment and cleaning up

**Methods for Containment:** Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up:** Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Soak up with inert absorbent material.

#### Section 7. Handling and Storage

##### Precautions for safe handling

**Advice on safe handling:** Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist.

### Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions:** Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place.

**Incompatible products:** None known based on information supplied.

## Section 8. Exposure Controls / Personal Protection

### Control parameters

**Exposure Guidelines:** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Exposure controls

**Engineering Measures:** Showers, Eyewash stations, Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection:** Tightly fitting safety goggles. Face-shield.

**Skin and Body Protection:** Chemical resistant apron.

**Respiratory protection:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures:** When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area, and clothing.

## Section 9. Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

**Physical State (20°C):** Liquid

**Appearance:** Clear light yellow

**Odor:** Characteristic

**Odor Threshold:** No information available

**pH:** No information available

**Melting point/range:** No information available

**Freezing Point:** No information available

**Initial Boiling Point:** No information available

**Boiling point/boiling range:** 338°F / 170°C

**Flash point:** 99°F / 37°C

**Evaporation Rate:** No information available

**Flammable Properties:** Flammable; may be ignited by heat, sparks or flames

**Flammability Limits in Air:** No information available

**Explosive properties:** No information available

**Oxidizing Properties:** No information available



**Vapor Pressure (20°C, kPa):** No information available  
**Vapor Density:** No information available  
**Specific Gravity:** 0.905  
**Water Solubility:** Insoluble in water  
**Solubility:** No information available  
**Partition coefficient:** No information available  
**Autoignition temperature:** No information available  
**Decomposition Temperature:** No information available  
**Viscosity, dynamic:** No information available  
**Molecular Weight:** No information available  
**VOC Content:** No information available

Section 10. Stability and Reactivity

**Reactivity:** Exothermic reaction  
**Chemical stability:** Stable under recommended storage conditions.  
**Possibility of hazardous reactions:** None under normal processing.  
**Conditions to avoid:** Heat, flames and sparks.  
**Incompatible materials:** None known based on information supplied.  
**Hazardous decomposition products:** None known based on information supplied.

Section 11. Toxicological Information

**Information on likely routes of exposure**

**Product Information:** Product does not present an acute toxicity hazard based on known information

**Inhalation:** There is no data available for this product.

**Eye contact:** There is no data available for this product.

**Skin contact:** There is no data available for this product.

**Ingestion:** There is no data available for this product

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Fats, nutmeg butter (CAS# 8007-12-3)	3600 mg/kg	5 g/kg (Rabbit)	-

**Information on toxicological effects**

**Symptoms:** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization:** No information available.

**Mutagenic effects:** No information available.

**Carcinogenicity:** No information available.

**Reproductive Toxicity:** No information available.

**Specific target organ systemic toxicity (single exposure):** No information available.

**Specific target organ systemic toxicity (repeated exposure):** No information available.

**Chronic toxicity:** Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.

**Aspiration hazard:** No information available.

### Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity:** 26.77000002% of the mixture consists of ingredient(s) of unknown toxicity

**The following values are calculated based on chapter 3.1 of the GHS document**

**ATEmix (oral):** 4364 mg/kg

**ATEmix (dermal):** 5879 mg/kg

**LD50 Oral (mg/kg):** 3640 (rat) mg/kg

**LD50 Dermal (mg/kg):** > 5000 (rabbit) mg/kg

### Section 12. Ecological Information

#### Information on likely routes of exposure

**Product Information:** Product does not present an acute toxicity hazard based on known information

**Inhalation:** There is no data available for this product.

**Eye contact:** There is no data available for this product.

**Skin contact:** There is no data available for this product.

**Ingestion:** There is no data available for this product

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Fats, nutmeg butter (CAS# 8007-12-3)	3600 mg/kg	5 g/kg (Rabbit)	-

#### Information on toxicological effects

**Symptoms:** No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization:** No information available.

**Mutagenic effects:** No information available.

**Carcinogenicity:** No information available.

**Reproductive Toxicity:** No information available.

**Specific target organ systemic toxicity (single exposure):** No information available.

**Specific target organ systemic toxicity (repeated exposure):** No information available.

**Chronic toxicity:** Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.

**Aspiration hazard:** No information available.



**Numerical measures of toxicity - Product Information**

**Unknown Acute Toxicity:** 26.77000002% of the mixture consists of ingredient(s) of unknown toxicity

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**ATEmix (oral):** 4364 mg/kg

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**LD50 Oral (mg/kg):** 3640 (rat) mg/kg

**LD50 Dermal (mg/kg):** > 5000 (rabbit) mg/kg

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**DOT - Bulk Packaging**

**UN Number:** 1169

**Proper shipping name:** Extracts, aromatic, liquid

**Hazard Classification:** 3

**Packing Group:** III

**DOT - Non Bulk Packaging**

**UN Number:** 1169

**Proper shipping name:** Extracts, aromatic, liquid

**Hazard Classification:** 3

**Packing Group:** III

**IMDG/IMO**

**UN Number:** 1169

**Proper shipping name:** Extracts, aromatic, liquid

**Hazard Classification:** 3

**Packaging Group:** III

**Marine pollutant:** This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

**MEX**

**UN Number:** 1169

**Proper shipping name:** Extracts, aromatic, liquid

**Hazard Classification:** 3

**Packaging Group:** III





**ICAO**

**UN Number:** 1169

**Proper shipping name:** Extracts, aromatic, liquid

**Hazard Classification:** 3

**Packing Group:** III

**ICAO/IATA**

**UN Number:** 1169

**Proper shipping name:** Extracts, aromatic, liquid

**Hazard Classification:** 3

**Packing Group:** III

**TDG**

**UN Number:** 1169

**Proper shipping name:** Extracts, aromatic, liquid

**Hazard Classification:** 3

**Packaging Group:** III

**RID**

**UN Number:** 1169

**Proper shipping name:** Extracts, aromatic, liquid

**Hazard Classification:** 3

**Packaging Group:** III

**ADR/RID**

**UN Number:** 1169

**Proper shipping name:** Extracts, aromatic, liquid

**Hazard Classification:** 3

**Packing Group:** III

**ADN**

**UN Number:** 1169

**Proper shipping name:** Extracts, aromatic, liquid

**Hazard Classification:** 3

**Packaging Group:** III

Section 15. Regulatory Information

**International Inventories**

**TSCA:** Complies

**DSL/NDSL:** Complies

**EINECS/ELINCS:** Complies

**ENCS:** Complies

**IECSC:** Complies



**KECL:** Complies  
**PICCS:** Complies  
**AICS:** Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**U.S. Federal Regulations**

**SARA 313:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

**Acute Health Hazard:** Yes  
**Chronic Health Hazard:** Yes  
**Fire Hazard:** Yes  
**Sudden Release of Pressure Hazard:** No  
**Reactive Hazard:** No

**Clean Water Act:** This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA:** This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations**

**California Proposition 65:** This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

**U.S. EPA Label Information**

**EPA Pesticide Registration Number:** Not applicable



**HMIS Rating**

**Health:** 2

**Flammability:** 3

**Reactivity:** 0

**Personal Protection:** X

**NFPA Rating**

**Health:** 2

**Flammability:** 3

**Reactivity:** 0

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 5/3/2017

