

## Product Specification

**PRODUCT: EXTRA VIRGIN OLIVE OIL**

### ORGANOLEPTIC

|                                  |                            |
|----------------------------------|----------------------------|
| Median of Defect Md:             | = 0                        |
| Median of Fruitiness Mf:         | > 0                        |
| <b>FREE ACIDITY:</b>             | % ≤0.8                     |
| <b>HUMIDITY &amp; VOLATILES:</b> | % ≤0.2                     |
| <b>IMPURITIES:</b>               | % ≤0.1                     |
| <b>PEROXIDE INDEX:</b>           | meq O <sub>2</sub> /Kg ≤20 |

### FATTY ACID COMPOSITION

|                                   |             |
|-----------------------------------|-------------|
| MYRISTIC (C <sub>14:0</sub> ):    | % ≤0.03     |
| PALMITIC (C <sub>16:0</sub> ):    | % 7.5-20.0  |
| PALMITOLEIC (C <sub>16:1</sub> ): | % 0.3-3.5   |
| MARGARIC (C <sub>17:0</sub> ):    | % ≤0.3      |
| MARGAROLEIC (C <sub>17:1</sub> ): | % ≤0.3      |
| STEARIC (C <sub>18:0</sub> ):     | % 0.5-5.0   |
| OLEIC (C <sub>18:1</sub> ):       | % 55.0-83.0 |
| LINOLEIC (C <sub>18:2</sub> ):    | % 3.5-21.0  |
| LINOLENIC (C <sub>18:3</sub> ):   | % ≤1.0      |
| ARACHIDIC (C <sub>20:0</sub> ):   | % ≤0.6      |
| EICOSENOIC (C <sub>20:1</sub> ):  | % ≤0.4      |
| BEHENIC (C <sub>22:0</sub> ):     | % ≤0.2      |
| LIGNOCERIC (C <sub>24:0</sub> ):  | % ≤0.2      |

### FATTY ACID COMPOSITION

|                       |         |
|-----------------------|---------|
| TRANSOLEIC:           | % <0.05 |
| LINOLEICS+LINOLENICS: | % <0.05 |
| 2P (C16)≤14%:         | % ≤0.9  |
| 2P (C16)>14%:         | % ≤1.0  |

### HALOGENATED SOLVENTS

|                    |       |      |
|--------------------|-------|------|
| CHLOROFORM:        | p.p.m | ≤0.1 |
| TRICHLOROETHYLENE: | p.p.m | ≤0.1 |
| PERCHLOROETHYLENE: | p.p.m | ≤0.1 |

### SPECTROPHOTOMETRY

|                     |        |
|---------------------|--------|
| K <sub>270</sub> :  | ≤0.22  |
| K <sub>232</sub> *: | ≤2.50* |
| Δ-K:                | ≤0.01  |

### STEROLS COMPOSITION

|                              |                |
|------------------------------|----------------|
| CHOLESTEROL:                 | % ≤0.5         |
| BRASSICASTEROL:              | % ≤0.1         |
| CAMPESTEROL:                 | % ≤4.5         |
| CAMPESTANOL:                 | % N/A          |
| STIGMASTEROL:                | % <Campesterol |
| β-SITOSTEROL:                | % ≥93.0        |
| Δ-STIGMASTEROL:              | % ≤0.5         |
| ERYTHRODIOL+UVAOL:           | % ≤4.5         |
| TOTAL STEROLS:               | p.p.m ≥1000    |
| ECN-42 (actual-theoretical): | ≤0.2           |
| WAX CONTENT:                 | p.p.m ≤150     |

### HYDROCARBONS

|                  |             |
|------------------|-------------|
| STIGMASTADIENES: | p.p.m ≤0.05 |
|------------------|-------------|

### FATTY ACID METHYL & ETHYL ESTERS

|            |           |
|------------|-----------|
| FAME+FAEE: | mg/kg ≤40 |
|------------|-----------|

\* Determination is solely for application by commercial partners on an optional basis

In Compliance with IOC Standards For  
EXTRA VIRGIN OLIVE OIL

**Gerald Jones**  
Quality Assurance Manager

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## Product Description

### **Product Name:**

Extra Virgin Olive Oil

### **Product Description:**

Extra Virgin Olive Oil is defined by the IOC as: "olive oils obtained from the fruit of the olive tree solely by mechanical or other physical means under conditions, particularly thermal conditions, that do not lead to alterations in the oil, and which have not undergone any treatment other than washing, decantation, centrifugation, and filtration...olive oil which has a free acidity, expressed as oleic acid, of not more than 0.8 grams per 100 grams..."

### **Ingredients:**

Extra Virgin Olive Oil

### **Food Safety Characteristics:**

Extra Virgin Olive Oil is safe for human consumption.

### **Consumer Intended Uses:**

Dressings, marinades, various food toppings (bread, fish, pasta, etc.)

### **Packaging:**

Various bulk sizes and containers: steel drums (55, 58 gallon), disposable cardboard totes (275 gallon), returnable plastic totes (275 gallon), tank wagons, railcars.

Various food service/retail packing sizes and containers: glass, tin, PET, HDPE, (8.5 oz - 35#)

### **Labeling :**

Imported Product, Gluten free, Cholesterol free, Trans fat free, Kosher (OU)

### **Shipping/Storage Conditions:**

Capped when not used. Store at room temperature, removed from moisture and direct sunlight. Exposure to freezing temperatures will not impact oil quality. Frozen product should be allowed to gradually return to liquid state. Product should not be heated above 90°F; direct heat will damage oil quality.

### **Shelf Life:**

Up to 18 months in an unopened container stored in the conditions described above.

12 months is recommended for a fresher flavor

### **Country Of Origin:**

Italy, Spain, Tunisia, Turkey, Morocco and Argentina

**Gerald Jones**  
Quality Assurance Manager

sovena

**Nutrition Information**

(per 100 g.)

**PRODUCT:** Extra Virgin Olive Oil**Nutrition Facts**

Serving Size 100 grams

**Amount Per Serving****Calories** 884

Calories from Fat 884

**% Daily Value\*****Total Fat** 100g **157%**Saturated Fat 13.8g **70%**

Trans Fat &lt;0.5g

Polyunsaturated Fat 10.5g

Monounsaturated Fat 73g

**Cholesterol** 0mg **0%****Sodium** 0mg **0%****Potassium** 0mg **0%****Total Carbohydrate** 0g **0%****Protein** 0g

\*Percent Daily Values are based on a 2,000 calorie diet.

**Ingredients:** Extra Virgin Olive Oil**Gerald Jones**  
Food Defense Manager



## Allergen and GMO Information

**PRODUCT:** Extra Virgin Olive Oil

Has this product or any of its components been treated with irradiation?  N

Does this product contain any of the following allergens and sensitizing agent  N

Peanut & Peanut products (including peanut oil)  N

Soybean & soy products (including soy lecithin, excluding soy oil)  N

Seeds (poppy, sesame, sunflower & psyllium)  N

Sulfites  N  If yes, what is the residual level?

Tree nuts  N

Monosodium Glutamate  N

Fish  N

Wheat and related grains  N

Crustaceans  N

Egg and egg products  N

Mollusks  N

Cottonseed products  N

Legumes  N

Dairy  N

Genetically Modified Organism (GMO)  N

Use of CRY9C (starling) Pesticide  N

Gluten Free  Y

**Gerald Jones**  
Food Defense Manager

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

**Product Name:** Olive Oil (Extra Virgin)  
**CAS#:** 8001-25-0  
**Chemical Name:** Triglyceride of Fatty Acid  
**Recommended Use of the Chemical:** As needed

**Restrictions on Use of the Chemical:** No restrictions

**Contact Information:**  
**Sovena USA**  
**1 Olive Grove Street**  
**Rome, New York 13441**

**Ph:** (315)797-7070  
**F:** (315)797-6981

**24 Hr Emergency Contact:**  
**Gerald Jones**  
**QA Manager**  
**(315)281-6505**



|                            |          |
|----------------------------|----------|
| <b>Health</b>              | <b>1</b> |
| <b>Fire</b>                | <b>1</b> |
| <b>Reactivity</b>          | <b>0</b> |
| <b>Personal Protection</b> | <b>A</b> |

## SECTION 2: HAZARDS IDENTIFICATION

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation

**Potential Chronic Health Effects:**

**CARCINOGENIC EFFECTS:** Not available

**MUTAGENIC EFFECTS:** Not available

**TERATOGENIC EFFECTS:** Not available

**DEVELOPMENTAL EFFECTS:** Not available

**DEVELOPMENTAL TOXICITY:** Not available

Repeated or prolonged exposure is not known to aggravate medical conditions.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS SUBSTANCE

| NAME         | CAS#      | % BY WEIGHT |
|--------------|-----------|-------------|
| Extra Virgin | 8001-25-0 | 100%        |
|              |           |             |

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## SECTION 4: FIRST AID MEASURES

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Serious Skin Contact:** Not available

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available

## SECTION 5: FIREFIGHTING MEASURES

**Flammability of Product:** May be combustible at high temperatures

**Auto-Ignition Temperature:** 343°C(649.4°F)

**Flash Points:** CLOSED CUP: 225°C(437°F)

**Flammable Limits:** Not Available

**Products of Combustion:** Not Available

**Fire Hazards in Presence of Various Substances:** Slightly flammable to flammable in presence of heat

### Explosion Hazards in the Presence of Various Substances:

*In presence of mechanical impact:* Not available

*In presence of static discharge:* Not available

### Extinguishing Media

**Suitable:** Dry Chemical Powder  
Water Spray  
Water Fog  
Foam

**Unsuitable:** Do not use Water Jet

**Special Fire Fighting Procedures:** Do not direct a solid stream of water or foam into burning material; this may cause the fire to spread.

**Special Protective Equipment for Firefighters:** Self-contained breathing apparatus.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear Suitable Protective Equipment

**Environmental Precautions:** Avoid runoff to sewers or waterways.  
Use methods consistent with local regulations.

**Small Spills:** Absorb with an inert material and put the spilled material in an appropriate waste disposal.

**Large Spills:** Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the SDS and with local authorities. Floor may be slippery; use care to avoid falling.

## SECTION 7: HANDLING AND STORAGE

**Precautions:** Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate residue under a fume hood. Ground all equipment containing material. Do not breathe gas/fumes/vapor/spray. Keep away from incompatibles such as oxidizing agents, acids.

**Conditions for Safe Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 23°C (73.4°F).

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits:** Consult local authorities for acceptable exposure limits

### Occupational Exposure Controls:

*Respiratory Protection:* None expected to be needed

*Hand Protection/Protective Gloves:* In case of a large spill

*Eye Protection:* Safety Glasses (small spill), Splash Goggles (large spill)

*Skin Protection:* Lab Coat (small spill), Splash Goggles (large spill)

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid  
**Color:** Greenish-Yellow  
**Odor:** Not Available  
**Odor Threshold:** N/A  
**Taste:** Pleasant, delicate flavor. Faintly acrid aftertaste  
**pH:** Not applicable  
**Molecular Weight:** Not Available  
**Boiling Point:** Not Available  
**Melting Point:** Not Available  
**Critical Temperature:** Not Available  
**Specific Gravity:** 0.915 (Water=1)  
**Vapor Pressure:** Not Available  
**Vapor Density:** >1 (Air=1)  
**Volatility:** Not Available  
**Water/Oil Dist.Coeff.:** Not Available  
**Ionicity (in Water):** Not Available  
**Dispersion Properties:** Not Available  
**Decomposition Temperature:** Not Available  
**Upper explosion Limits:** Not Available  
**Lower explosion Limits:** Not Available

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** This product is stable  
**Instability Temperature:** Not available  
**Conditions of Instability:** Becomes rancid on exposure to air. Begins to get turbid at 5-10°C  
**Incompatibility with Various Substances:** Reactive with oxidizing agents, acids.  
**Corrosivity:** Non-corrosive in presence of glass.  
**Polymerization:** Will not occur

## SECTION 11: TOXICOLOGICAL INFORMATION

**Routes of Entry:** Absorbed through the skin. Eye contact.  
**Toxicity to Animals:** Not available  
**Chronic Effects on Humans:** Not available  
**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact, ingestion, and inhalation  
**Acute Potential Health Effects:** Inhalation: Excessive inhalation of oil mist may affect respiratory system. Oil mist is classified as a nuisance particulate by ACGIH. Ingestion: Generally non-hazardous unless ingested in large quantities. Digestive tract discomfort may be encountered.



**SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not available

**BOD5 and COD:** Not available

**Products of Biodegradation:** Possible short term degradation products are not likely.  
However, long term degradation products may arise

**Toxicity of the Products of Biodegradation:** Not available

**Mobility in Soil:** Not available

**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with appropriate Federal, State, and Local regulations.

**SECTION 14: TRANSPORT INFORMATION**

**DOT Classification:** Not a DOT controlled material (United States)

**Identification:** Not applicable

**Special Provisions for Transport:** Not applicable

**SECTION 15: REGULATORY INFORMATION**

**WHMIS (Canada):** Not controlled under WHMIS (Canada)

**DSCL (EEC):** This product is not classified according to the EU regulations

**HMIS (USA):**

*Health Hazard: 1*

*Fire Hazard: 1*

*Reactivity: 0*

*Personal Protection: A*

**National Fire Protection Association (USA):**

*Health: 0*

*Flammability: 1*

*Reactivity: 0*

**Protective Equipment:** Lab Coat/Safety Glasses

**EINECS:** This product is on the European Inventory of Existing Commercial Chemical Substances

**SECTION 16: OTHER INFORMATION**

**Revision Number:** 3

**Revision Date:** 1/6/2014

**Effective Date:** 1/6/2014

**Approved By:** Gerald Jones, Quality Assurance Manager