1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

PRODUCT NAME: OREGANO OIL
BOTANICAL/ CHEMICAL NAME: Origanum Vulgare
MOLECULAR WEIGHT: N/A
MOLECULAR FORMULA: N/A
CLP REFERENCE NUMBER N/A
REACH REGISTRATION NUMBER N/A
REACH PREREGISTRATION NUMBER N/A
APPLICATION OF THE SUBSTANCE: Raw material: Fragrance/flavor application
CAS No (TSCA) 8007-11-2
EINEC 290-371-7
FEMA No 2828
FDA No 172.510, 182.200

1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

The Essential Oil Company
9225 SE 7the Ave.
Portland, Oregon 97212
503-872-8772

FOR FURTHER INFORMATION, PLEASE CONTACT:

E-mail address: Robert Seidel: robert@essentialoil.com

EMERGENCY TELEPHONE NUMBER

800-729-5912
Classification
Classification of the substance / preparation
Classification according to Regulation (EC) No. 1272/2008
UN-GHS: FL 4, ATO 4(1000), ATD 3(300), AH 1, SCI 2, EDI 2A, SS 1, EH A3,C3
EU-CLP: ATO 4, ATD 3, AH 1, SCI 2, EDI 2, SS 1

Classification according to Directive 67/548/EEC or 1999/45/EC
Xn; R21/22-38-43-52/53-65, S24-36/37-62

Label elements, including precautionary statements

Label Elements
Label elements according to Regulation (EC) No. 1272/2008

Classification system:
The classification is according to the latest editions of EU lists, and extended by company and literature data.

Additional Information:
See section 16 for the wordings of listed R-, S-phrases, H-statements and Hazard codes.
Emergency Overview

Precautionary Statements – Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed in workplace
Keep away from heat/sparks/open flames/hot surfaces. –No smoking

Precautionary Statements – Response
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 ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF SWALLOWED: Immediately call POISON CENTER or doctor/physician
Do not induce vomiting
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements – Storage
Store locked up
Store in well-ventilated place. Keep cool

Precautionary Statements – Disposal
Dispose of contents/container to an approved disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description:
Essential Oil; UVCB; Substance of biological origin with variable and partially unknown composition.

Hazard Impurities: Not Applicable

Content of R65 classified products: No

Dangerous components:
Carvacrol 65% to 75% UN-GHS: ATO 4(810), SCI 2, EDI 2A, SS 1
para-Cymene 8% UN-GHS: ATO 5 (4750); SCI 3, EH A2,C2
gamma-Terpinene 5% UN-GHS: ATO 5(3850), SCI 3
4. FIRST AID MEASURES

First aid measures for different exposure routes

**General Advice**
If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or clothing.

**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. If symptoms persist, call a physician.

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

**Inhalation**
Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Consult a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors or decomposition products.

**Ingestion**
Do not induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Rinse mouth. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.
Protection of first-aiders  Use personal protective equipment

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician
May cause sensitization of susceptible persons. Treat symptomatically.
Symptoms of poisoning may even occur after several hours: therefore medical observation for at least 48 hours after accident

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use: Dry chemical. Carbon dioxide (CO₂). Alcohol-resistant foam.

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

Specific hazards arising from 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.

Explosion Data
Sensitivity of Mechanical Impact  None
Sensitivity to Static Discharge  None

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions  Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources
of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharge.

**Environmental precautions**

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges.

7. **HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flame. No smoking. Take necessary action to avoid static discharge (which might cause ignition of organic vapors).

**Conditions for safe handling**
Technical measures/Storage Conditions


Incompatible products

None known based on information supplied.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Control parameters

Exposure guidelines

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

Exposure controls

Engineering measures

Showers
Eye wash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Tightly fitting goggles. Face-shield

Skin and body protection

Chemical resistant apron

Respiratory protection

If exposure limits are exceeded for 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. Remove and wash contaminated clothing before re-use.
Skin Protection  
Eye Protection  
Body Protection

Safety Gloves  
Tight safety goggles  
Protective Clothing

Respiratory Protection
Dust Mask

Environmental exposure controls
Prevent entry into drains, ground/surface water or sewerage system

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

Physical State @20ºC  
Liquid

Appearance  
Yellow to dark brown

Odor  
Spicy, herbal, aromatic

Odor Threshold  
No information available

pH  
No information available

Optical Rotation  
-5.0 to +2.0

Melting point/range  
No information available

Freezing Point  
No information available

Initial boiling point  
No information available

Boiling point/boiling range  
No information available
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flashpoint</td>
<td>&gt;61°C</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.930 – 0.955 @20°C</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>1.500 – 1.516 @20°C</td>
</tr>
<tr>
<td>Evaporation Rate VALUE</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammable Properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability limits in Air</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor Pressure @20ºC</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Solubility</td>
<td>Alcohol - 1:1(v/v)</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition Temperature ºC</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No information available</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>No information available</td>
</tr>
<tr>
<td>VOC Content</td>
<td>No information available</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Reactivity**
Not reactive, stable at room temperature

**Chemical stability**
Stable under recommended storage conditions

**Possibility of hazardous reactions**
Reactions with strong oxidizers

**Conditions to avoid**
Heat, flames and sparks

**Incompatible materials**
Avoid strong acids strong bases and all oxidizing agents

**Hazardous decomposition products**
No dangerous decomposition products expected by intended use

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## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product information

Acute Oral toxicity LD50 orl-rat 1850mg/kg FCT (1974) 12.945

Acute Dermal toxicity LD50 skn-rbt 320mg/Kg FCT (1974) 12,945

#### Inhalation

Skin sensitization: Classified as hazard category 1 under GHS & CLP following EC 1272/2008.

#### Eye contact

Classified as hazard category 2 under GHS & CLP following EC 1272/2008

#### Skin contact

Classified as hazard category 2 under GHS & CLP following EC 1272/2008

#### Ingestion

There is no data available for this product

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<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LG50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oregano Oil</td>
<td>Acute Oral toxicity LD50 orl-rat 1850mg/kg FCT (1974) 12.945</td>
<td>Acute Dermal toxicity LD50 skn-rbt 320mg/Kg FCT (1974) 12,945</td>
<td>No Data available</td>
</tr>
</tbody>
</table>

### 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
<table>
<thead>
<tr>
<th><strong>Mutagenic effects</strong></th>
<th>No information available</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>Carvacrol (major component) is known to display anti-carcinogenic activity. Tisserand et al. report on the non-mutagenic and anti-induced mutagenicity effects of several high Carvacrol containing Origanum oils ref: Essential Oil Safety: A Guide for Health Care Professionals Tisserand R &amp;Young R. Google e-Book 2013.</td>
</tr>
<tr>
<td></td>
<td>Not listed as carcinogen by IARC, NTP, EPA, Calif Prop 65 &amp; TRI</td>
</tr>
<tr>
<td><strong>Reproductive Toxicity</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Specific target organ systemic toxicity (single exposure)</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Specific target organ systemic toxicity (repeated exposure)</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Chronic toxicity</strong></td>
<td>Repeated exposure may cause allergic reactions in very susceptible persons. Avoid repeated exposure</td>
</tr>
<tr>
<td><strong>Aspiration hazard</strong></td>
<td>Classed as hazard category 1 under GHS &amp; CLP following EC 1272/2008</td>
</tr>
<tr>
<td><strong>CMR Effects</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Carcinogen</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Mutagen</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Reprotoxic</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Exposure Limits</strong></td>
<td>Note: There is a blanket recommendation of 10 mg/m3 for inspirable dusts or mists when limits have not otherwise been established</td>
</tr>
</tbody>
</table>
12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT Ecotoxicity

Classification according to the Regulation (EC) No 1272/2008: Hazardous to the aquatic environment — long-term hazard, category 3

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oregano Oil</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Persistence and degradability

No information available

Bioaccumulation

No information available

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste disposal methods
Dispose of in accordance with local regulations

Contaminated packaging
Do not re-use empty containers
Empty contaminated packing thoroughly as they may be recycled.

Moistened solids to be disposed of adhering to necessary technical regulations after consulting concerned authorities

14. TRANSPORTATION INFORMATION

IMDG/IMO

UN Number 2810

Proper shipping name TOXIC, LIQUIDS, ORGANIC nos (Origanum oil)

Hazard Classification 3

Packaging Group III

Marine Pollutant Yes

ADR/IMDG/IATA Labels:

Special precautions for users:

Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before re-use. Prevent entry into drains, ground/surface water or sewerage system.

15. REGULATORY INFORMATION

EU regulations

This product has been classified and marked in accordance with the EU Directives/Ordinance on Hazardous Materials.
Internal Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Complies</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Complies</td>
</tr>
<tr>
<td>ENCS</td>
<td>Complies</td>
</tr>
<tr>
<td>IECSC</td>
<td>Complies</td>
</tr>
<tr>
<td>KECL</td>
<td>Complies</td>
</tr>
<tr>
<td>PICCS</td>
<td>Complies</td>
</tr>
<tr>
<td>AICS</td>
<td>Complies</td>
</tr>
</tbody>
</table>

**Legend:**

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL – 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

**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 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.

**California Proposition 65**

This product does not contain any Proposition 65 Chemicals

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### 16. OTHER INFORMATION

**Relevant R – and S phrases**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R21/22</td>
<td>HARMFUL IN CONTACT WITH SKIN AND IF SWALLOWED.</td>
</tr>
<tr>
<td>R38</td>
<td>IRRITATING TO SKIN.</td>
</tr>
<tr>
<td>R43</td>
<td>MAY CAUSE SENSITIZATION BY SKIN CONTACT.</td>
</tr>
<tr>
<td>R52/53</td>
<td>VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG - TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.</td>
</tr>
</tbody>
</table>

**Relevant H-, P – Statements and Hazard Codes**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>HARMFUL IF SWALLOWED</td>
</tr>
<tr>
<td>H304</td>
<td>MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS</td>
</tr>
<tr>
<td>H311</td>
<td>TOXIC IN CONTACT WITH SKIN</td>
</tr>
<tr>
<td>H315</td>
<td>CAUSES SKIN IRRITATION</td>
</tr>
<tr>
<td>H317</td>
<td>MAY CAUSE AN ALLERGIC SKIN REACTION</td>
</tr>
<tr>
<td>H319</td>
<td>CAUSES SERIOUS EYE IRRITATION</td>
</tr>
</tbody>
</table>

OTHER INFORMATION:

Workplace Exposure Limits EH40. CHIP for everyone HSG 108

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**Revision Date 7/25/15**

**Revision Note** No information available
Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of this publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet