

# SAFETY DATA SHEET

## 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

## 2. HAZARDS IDENTIFICATION

### **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



Label elements according to Directive 67/548/EEC or 1999/45/EC



#### **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 80% to 85% UN-GHS: ATO 4(810), SCI 2, EDI 2A, SS 1  
p-Cymene 4.4% UN-GHS: ATO 5 (4750); SCI 3, EH A2,C2  
gamma-Terpinene 3.09% UN-GHS: ATO 5(3850), SCI 3

Terpinen-4-ol 0.6% UN-GHS: ATO 4(1300), ATD 5(2500), SCI 2, EDI 2A, EH A3

Myrcene 1.15% UN-GHS: EDI 2A, SCI 2

Thymol 0.1% to 0.8% UN-GHS: ATO 4(980); SCI 1C; EH A2,C2

Pinenes 0.53% UN-GHS: ATO 5(3700), SCI 2, SS 1

alpha-Terpinene 0.8% UN-GHS: ATO 4(1650), SCI 3, EH A2,C2

Linalool 0.19% UN-GHS: ATO 5(3000), EDI 2A, EH A3, SCI 2

## 4. FIRST AID MEASURES

### First aid measures for different exposure routes

<b>General Advice</b>	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or clothing
<b>Eye contact</b>	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.
<b>Skin contact</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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 (CO<sub>2</sub>). 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**

Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep away from heat.

**Incompatible products**

None known based on information supplied.

<b>8. EXPOSURE CONTROL/PERSONAL PROTECTION</b>
--

**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



Safety Gloves

Eye Protection



Tight safety goggles

Body Protection



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**

<b>Physical State @20°C</b>	Liquid
<b>Appearance</b>	Yellow to dark brown
<b>Odor</b>	Spicy, herbal, aromatic
<b>Odor Threshold</b>	No information available
<b>pH</b>	No information available
<b>Optical Rotation</b>	-5.0 to +2.0
<b>Melting point/range</b>	No information available
<b>Freezing Point</b>	No information available
<b>Initial boiling point</b>	No information available
<b>Boiling point/boiling range</b>	No information available



<b>Flashpoint</b>	>61°C
<b>Specific Gravity</b>	0.930 – 0.955 @20°C
<b>Refractive Index</b>	1.500 – 1.516 @20°C
<b>Evaporation Rate VALUE</b>	No information available
<b>Flammable Properties</b>	No information available
<b>Flammability limits in Air</b>	No information available
<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available
<b>Vapor Pressure @20°C</b>	No information available
<b>Vapor Density</b>	No information available
<b>Water Solubility</b>	Insoluble in water
<b>Solubility</b>	Alcohol - 1:1(v/v)
<b>Partition coefficient:</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition Temperature °C</b>	No information available
<b>Viscosity, dynamic</b>	No information available
<b>Molecular Weight</b>	No information available
<b>VOC Content</b>	No information available

## 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

<b>11. TOXICOLOGICAL INFORMATION</b>
--------------------------------------

**Information on likely routes of exposure**

<b>Product information</b>	Acute Oral toxicity LD50 orl-rat 1850mg/kg FCT (1974) 12. 945  Acute Dermal toxicity LD50 skn-rbt 320mg/Kg FCT (1974) 12,945
<b>Inhalation</b>	Skin sensitization: Classified as hazard category 1 under GHS & CLP following EC 1272/2008.
<b>Eye contact</b>	Classified as hazard category 2 under GHS & CLP following EC 1272/2008
<b>Skin contact</b>	Classified as hazard category 2 under GHS & CLP following EC 1272/2008
<b>Ingestion</b>	There is no data available for this product

<b>Chemical name</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LG50 inhalation</b>
Oregano Oil	Acute Oral toxicity LD50 orl-rat 1850mg/kg FCT (1974) 12. 945	Acute Dermal toxicity LD50 skn- rbt 320mg/Kg FCT (1974) 12,945	No Data available

**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

<b>Mutagenic effects</b>	No information available
<b>Carcinogenicity</b>	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 & Young R. Google e-Book 2013.  Not listed as carcinogen by IARC, NTP, EPA, Calif Prop 65 & TRI
<b>Reproductive Toxicity</b>	No information available
<b>Specific target organ systemic toxicity (single exposure)</b>	No information available
<b>Specific target organ systemic toxicity (repeated exposure)</b>	No information available
<b>Chronic toxicity</b>	Repeated exposure may cause allergic reactions in very susceptible persons. Avoid repeated exposure
<b>Aspiration hazard</b>	Classed as hazard category 1 under GHS & CLP following EC 1272/2008
<b>CMR Effects</b>	
<b>Carcinogen</b>	No information available
<b>Mutagen</b>	No information available
<b>Reprotoxic</b>	No information available
<b>Exposure Limits</b>	

Note: There is a blanket recommendation of 10 mg/m<sup>3</sup> for inspirable dusts or mists when limits have not otherwise been established

## 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

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Oregano Oil	No data available	No data available	No data available

### 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

#### **Recommednations:**

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

<b>UN Number</b>	2810
<b>Proper shipping name</b>	TOXIC, LIQUIDS, ORGANIC nos (Origanum oil)
<b>Hazard Classification</b>	3
<b>Packaging Group</b>	III
<b>Marine Pollutant</b>	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

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

### Legend:

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

**DSL/NDSL** – Canadian Domestic Substances List/Non-Domestic Substances List

**EINICS/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

<b>16. OTHER INFORMATION</b>
------------------------------

#### **Relevant R – and S phrases**

R21/22	HARMFUL IN CONTACT WITH SKIN AND IF SWALLOWED.
R38	IRRITATING TO SKIN.
R43	MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R52/53	VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG - TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

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

H302	HARMFUL IF SWALLOWED
H304	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
H311	TOXIC IN CONTACT WITH SKIN
H315	CAUSES SKIN IRRITATION
H317	MAY CAUSE AN ALLERGIC SKIN REACTION
H319	CAUSES SERIOUS EYE IRRITATION

OTHER INFORMATION:

Workplace Exposure Limits EH40. CHIP for everyone HSG 108

**Revision Date 11/23/20**

**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