

2350 – Origanum Oil, Natural

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/01/2022

Version: 6

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : 2350 – Origanum Oil, Natural
CAS Number : 84012-24-8

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Industry use

1.3. Details of the supplier of the safety data sheet

LorAnn Oils, Inc.
4518 Aurelius Road
Lansing, MI 48910
Telephone: 1.800.862.8620

1.4. Emergency telephone number

Emergency number : CHEMTREC: Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1 703 527 3887

SECTION 2: Hazards identification

Classification

Acute toxicity – Oral : Category 4
Acute toxicity – Dermal : Category 3
Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 2A
Skin sensitization : Category 1B
Reproductive toxicity : Category 2
Aspiration toxicity : Category 1
Flammable liquids : Category 4

Label Elements

Danger

Hazard statements

Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of damaging fertility or the unborn child
May be fatal if swallowed and enters airways
Toxic in contact with skin
Combustible liquid



Appearance: Clear

Physical state: Liquid

Odor: Characteristic odor

Precautionary Statements – Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/eye protection/face protection. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Keep away from flames and hot surfaces. – No smoking.

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 ON SKIN: Wash with plenty of water and soap. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Rinse mouth.
In case of fire: Use CO₂, dry chemical, or foam to extinguish.

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) Other Information

- Toxic to aquatic life with long lasting effects
 - Toxic to aquatic life
- 97.691% of the mixture consists of ingredient(s) of unknown toxicity

SECTION 3: Composition/information on ingredients :

Synonyms Botanical Name: Origanum vulgare L.
Chemical Family Essential oil

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Weight-%</u>
Origanum Oil	84012-24-8	100

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice : 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. If eye irritation persists: Get medical advice/attention. If symptoms persist, call a physician.
Skin Contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a POISON CENTER or doctor if you feel unwell. If skin irritation persists, call a physician. Immediate medical attention is not required.
Inhalation : Move to fresh air in case of accidental inhalation of vapors or decomposition products. Immediate medical attention is not required. If symptoms persist, call a physician.
Ingestion : If SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Clean mouth with water. Drink 1 or 2 glasses of water. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider : Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians : Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO₂), dry chemical, water spray (fog), alcohol-resistant foam

5.2. Special hazards arising from the substance or mixture

Combustible material. May be ignited by heat, sparks or flames. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Hazardous combustion products: Irritating or toxic substances may be emitted upon burning, combustion, or decomposition.

Explosion data

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: May be ignited by friction, heat, sparks or flames.

5.3. Special protective actions for fire-fighters

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

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear protective gloves/protective clothing and eye/face protection. Avoid contact with eyes and skin. Remove all sources of ignition. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for containment : Prevent further leakage or spillage if safe to do so.
Methods for cleaning up : Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section 8. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Use personal protective equipment as required. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions : Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat.
Incompatilbe materials : None known based on information supplied.

SECTION 8: Exposure controls/PPE

8.1. Control parameters

Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
alpha-Pinene 80-56-8	TWA: 20 ppm	-	-
beta-Pinene 127-91-3	TWA: 20 ppm	-	-
delta-3-Carene 13466-78-9	TWA: 20 ppm	-	-

8.2. Appropriate engineering controls

Engineering controls : Showers
Eyewash stations
Ventilation systems

8.3. Individual protection measures, such as personal protective equipment

Eye/face protection : Tight sealing safety goggles.
Skin and body protection : Avoid contact with skin. Wear protective gloves and protective clothing.
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. Ensure adequate ventilation, especially in confined areas.
General hygiene considerations : When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Yellow-red to dark brown-red
Odor	: Characteristic odor
pH	: N/A
Relative evaporation rate (butyl acetate=1)	: N/A
Melting point	: N/A
Boiling point	: N/A
Flash point	: 145 °F
Auto-ignition temperature	: N/A
Vapor pressure (mmHg @20 °C)	: N/A
Specific gravity	: 0.9350-0.9600
Solubility in water	: Insoluble
Viscosity, dynamic	: N/A
Auto-ignition temperature	: N/A

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

Fire hazard

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Heat, flames and sparks.

10.5. Incompatible materials

None known based on information supplied.

10.6. Hazardous decomposition products

None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on likely routes of exposure

Inhalation	: Avoid breathing vapors or mists.
Eye contact	: Avoid contact with eyes. Causes serious eye irritation.
Skin contact	: Avoid contact with skin. Toxic in contact with skin. May cause an allergic skin reaction. Irritating to skin.
Ingestion	: May be fatal if swallowed and enters airways. Harmful if swallowed.

11.2. Information on toxicological effects

Symptoms	: No information available
----------	----------------------------

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

Skin corrosion/irritation	: Irritating to skin.
Serious eye damage/eye irritation	: Causes serious eye irritation.
Sensitization	: May cause sensitization by skin contact.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Carvacrol 499-75-2		Group 2A		X
Myrcene 123-35-3		Group 2B		X

IARC (International Agency for Research on Cancer)

Group 2A – Probably Carcinogenic to Humans

Group 2B – Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity : Suspected of damagin fertility or the unborn child. Product is or contains a chemical which is a known or suspected reproductive hazard. gamma-Terpinene. para-Cymene.

STOT – single exposure : Not classified.

STOT – repeated exposure : Not classified.

Aspiration hazard : May be fatal if swallowed and enters airways.

11.4. Numerical measures of toxicity – Product Information

Unknown acute toxicity : 97.691 % 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) 1850 mg/kg

ATEmix (dermal) 400 mg/kg

Oral LD50

Dermal LD50

SECTION 12: Ecological information

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

12.1. Ecotoxicity

Toxic to aquatic life with long lasting effects.

12.0015 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
para-Cymene 99-87-6		96hr LC50 – 48 mg/L (Cyprinodon variegatus)		72hr ErC50 – 4.03 mg/L NOErC – 1.4 mg/L (Senedesmus capricornutum)
Linalool 78-70-6	88.3: 96 h Desmodesmus Subspicatus mg/L EC50	96hr LC50 – 27.8 mg/L (Salmo gairdneri)		48hr EC50 – 59 mg/L (Daphnia magna)
Thymol 89-83-8		96hr LC50 – 3.2 mg/L (Pimephales promelas)		48hr LC50 – 4.5 mg/L (Daphnia magna)
alpha-Pinene 80-56-8		0.28: 96 h Pimephales promelas mg/L LC50 static		41: 48 h Daphnia magna mg/L EC50
Camphene 79-92-5	1000: 72 h Desmodesmus Subspicatus mg/L EC50	0.72: 96 h Brachydanio rerio mg/L LC50 flow-through 150: 96 h Brachydanio rerio mg/L LC50 static		22: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulation

No information available.

12.4. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal of wastes : Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging : Do not reuse container.

SECTION 14: Transport information

DOT:

UN/ID#: 2810
Proper Shipping Name: Toxic liquids, Organic, n.o.s.
Hazard class: 6.1
Packing group: III
Marine pollutant: This product contains a chemical which is listed as a marine pollutant according to DOT.
Description: (Origanum oil)

TDG:

UN/ID#: 2810
Proper Shipping Name: Toxic liquids, Organic, n.o.s.
Hazard class: 6.1
Packing group: III
Marine pollutant: This product contains a chemical which is listed as a marine pollutant according to TDG.
Description: (Origanum oil)

MEX:

UN/ID#: 2810
Proper Shipping Name: Toxic liquids, Organic, n.o.s.
Hazard class: 6.1
Packing group: III
Description: (Origanum oil)

ICAO (air):

UN/ID#: 2810
Proper Shipping Name: Toxic liquids, Organic, n.o.s.
Hazard class: 6.1
Packing group: III
Description: (Origanum oil)

IATA

UN/ID#: 2810
Proper Shipping Name: Toxic liquids, Organic, n.o.s.
Hazard class: 6.1
Packing group: III
ERG Code: 6L
Description: (Origanum oil)

IMDG

UN/ID#: 2810
Proper Shipping Name: Toxic liquids, Organic, n.o.s.
Hazard class: 6.1
Packing group: III
EmS-No: F-A, S-F
Marine pollutant: This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO.
Description: (Origanum oil)

RID

UN/ID#: 2810
Proper Shipping Name: Toxic liquids, Organic, n.o.s.
Hazard class: 6.1
Packing group: III
Description: (Origanum oil)

ADR

UN/ID#: 2810
Proper Shipping Name: Toxic liquids, Organic, n.o.s.
Hazard class: 6.1
Packing group: III
Classification code: T1
Tunnel restriction code: (E)
Description: (Origanum oil)
Labels: 6.1, Marine Pollutant

ADN:

UN number: 2810
Proper Shipping Name: Toxic liquids, Organic, n.o.s.
Hazard class: 6.1
Packing group: III
Description: (Origanum oil)

SECTION 15: Regulatory information

15.1. US 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	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (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.

15.2. US State Regulations

This product does not contain any substances regulated by state right-to-know regulations.

15.3. U.S. EPA Label Information

EPA Pesticide registration number Not applicable

SECTION 16: Other information

Other information

: **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.