

# The Essential Oil Company

## SAFETY DATA SHEET

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

#### 1.1 PRODUCT IDENTIFIER

**PRODUCT NAME:** LIME OIL

**BOTANICAL/CHEMICAL NAME:** Citrus aurantifolia

**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):** 8008-26-2

**EINEC:** 290-010-3

**FEMA No:** 2631

**FDA No:** 182.20

#### 1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

The Essential Oil Company  
9225 SE 7th 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

## 2. HAZARDS IDENTIFICATION

### **Classification**

Classification of the substance / preparation

Classification according to Regulation (EC) No. 1272/2008

AH 1, EH A1, EH C1, SC12, SSI1, H226-304-315-317-400-410

Classification according to Directive 67/548/EEC or 1999/45/EC

Xn N R10-38-43-65-50/53

### **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 CO<sub>2</sub>, 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:** 90%

### **Dangerous components:**

LIMONENE (CAS No 5989 – 27 - 5) Xi N, R10 – 38 – 43 - 50/53; Amount – 25  
50%

PINENES (CAS No 127 – 91 - 3/80 – 56 - 8) Xn Xi N, R10 – 43 - 50/53 - 65;  
Amount - 1.0 - 5%  
GAMMA - TERPINENE (CAS No 99 – 85 - 4) Xn, R10 - 65; Amount – 10 - 25%  
TERPINOLENE (CAS No 586 – 62 - 9) Xn N, R10 – 65 - 51/53; Amount - 2.5 - 10%  
MYRCENE (CAS No 123 – 35 - 3) Xn, R10 - 65; Amount - 1.0 - 2.5%

## 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.
<b>Protection of first-aiders</b>	Use personal protective equipment

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

**Notes to physician**

Symptoms of poisoning may even occur after several hours: therefore medical observation for at least 48 hours after the accident

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

Use: 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 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**

<b>Sensitivity of Mechanical Impact</b>	None
<b>Sensitivity to Static Discharge</b>	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.

**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.

### **Reference to other sections**

Refer to section 7, 8 & 13

## **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**

<b>Conditions</b>	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.
<b>Incompatible products</b>	None known based on information supplied.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### Control parameters

<b>Exposure guidelines</b>	This product does not contain hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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### Exposure controls

<b>Engineering measures</b>	Showers Eye wash stations Ventilation systems
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### Individual protection measures, such as personal protective equipment

<b>Eye/Face Protection</b>	Tightly fitting goggles. Face-shield
<b>Skin and body protection</b>	Chemical resistant apron
<b>Respiratory protection</b>	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.
<b>Hygiene measures</b>	When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work are 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 green to brownish
<b>Odor</b>	Characteristic odor
<b>Odor Threshold</b>	No information available
<b>pH</b>	No information available
<b>Optical Rotation</b>	+34 to +65.50
<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>	46°C



<b>Specific Gravity</b>	0.8556 – 0.8823 @20°C
<b>Refractive Index</b>	1.4743 – 1.4853 @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>	1:9 in 90% alcohol
<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>
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**Information on likely routes of exposure**

<b>Product information</b>	Product does not present an acute toxicity hazard based on known information
<b>Inhalation</b>	There is no data available for this product
<b>Eye contact</b>	There is no data available for this product
<b>Skin contact</b>	>5 gm/kg bw
<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>
Lime Oil	4400 mg/kg bw	>5 gm/kg bw	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

**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 exposure may cause allergic reactions in very susceptible persons. Avoid repeated exposure

**Aspiration hazard**

No information available

**CMR Effects**

**Carcinogen**

No information available

**Mutagen**

No information available

**Reprotoxic**

No information available

**Exposure Limits**

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**

**Ecotoxicity**

<b>Chemical name</b>	<b>Toxicity to algae</b>	<b>Toxicity to fish</b>	<b>Toxicity to daphnia and other aquatic invertebrates</b>
Lime 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

<b>13. DISPOSAL CONSIDERATIONS</b>
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**Waste treatment**

**Waste disposal methods**

Dispose of in accordance with local regulations

**Contaminated packaging**

Do not re-use empty containers

**Recommendations:**

Empty contaminated packing thoroughly as they may be recycled.

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

<b>14. TRANSPORTATION INFORMATION</b>
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**DOT**

**BULK PACKAGING**

Marine Pollutant

not regulated

**DOT**

**NON BULK PACKAGING**

Marine Pollutant

not regulated

**IMDG/IMO**

**UN Number**

1197

**Proper shipping name**

Extracts, Flavoring, Liquid

**Hazard Classification**

3

**Packaging Group**

III

**MEX**

<b>UN Number</b>	1197
<b>Proper shipping name</b>	Extracts, Flavoring, Liquid
<b>Hazard Classification</b>	3
<b>Packaging Group</b>	III

**ICAO**

<b>UN Number</b>	1197
<b>Proper shipping name</b>	Extracts, Flavoring, Liquid
<b>Hazard Classification</b>	3
<b>Packaging Group</b>	III

**ICAO/IATA**

<b>UN Number</b>	1197
<b>Proper shipping name</b>	Extracts, Flavoring, Liquid
<b>Hazard Classification</b>	3
<b>Packaging Group</b>	III

**TDG**

<b>UN Number</b>	1197
<b>Proper shipping name</b>	Extracts, Flavoring, Liquid
<b>Hazard Classification</b>	3
<b>Packaging Group</b>	III

**RID**

<b>UN Number</b>	1197
<b>Proper shipping name</b>	Extracts, Flavoring, Liquid
<b>Hazard Classification</b>	3
<b>Packaging Group</b>	III

**ADR/RID**

<b>UN Number</b>	1197
<b>Proper shipping name</b>	Extracts, Flavoring, Liquid
<b>Hazard Classification</b>	3
<b>Packaging Group</b>	III

**AND**

<b>UN Number</b>	1197
<b>Proper shipping name</b>	Extracts, Flavoring, Liquid
<b>Hazard Classification</b>	3
<b>Packaging Group</b>	III

**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.

<b>15. REGULATORY INFORMATION</b>
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**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

## 16. OTHER INFORMATION

### Relevant R – and S phrases

R10	FLAMMABLE.
R38	IRRITATING TO
SKIN.	R43 RISK OF EXPLOSION IF HEATED UNDER CONFINEMENT. R65 HARMFUL:MAY CAUSE LUNG DAMAGE IF SWALLOWED.
R50/R53	VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG - TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
S24	AVOID CONTACT WITH SKIN.
S37	WEAR SUITABLE GLOVES.
S61	AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEET.
S62	IF SWALLOWED, DO NOT INDUCE VOMITTING: SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

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

H226	FLAMMABLE LIQUID AND VAPOUR
H304	MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS
H315	CAUSES SKIN IRRITATION
H317	MAY CAUSE AN ALLERGIC SKIN REACTION
H400	VERY TOXIC TO AQUATIC LIFE
H410	VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS
P210	KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES – NO SMOKING
P233	KEEP CONTAINER TIGHTLY CLOSED
P241	USE EXPLOSION- PROOF ELECTRICAL/VENTILATING/LIGHT/.../EQUIPMENT



P261	AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY
P273	AVOID RELEASE TO THE ENVIRONMENT
P280	WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION
P331	DO NOT INDUCE VOMITING
P301+310	IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN
P303+361+353	IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER
P333+313	IF SKIN IRRITATION OR A RASH OCCURS: GET MEDICAL ADVICE/ATTENTION
P405	STORE LOCKED UP
P501	DISPOSE OF CONTENTS/CONTAINER TO ...
FL 3	FLAMMABLE LIQUID 3
SS 1	SKIN SENSITISATION 1
AH 1	ASPIRATION HAZARD CATEGORY 1
EH A1	ACUTE AQUATIC TOXICITY 1
EH C1	CHRONIC AQUATIC TOXICITY 1

**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