



# SAFETY DATA SHEET

**OEOMANDGRNBR257**  
VERSION NO. 1

## ORGANIC GREEN MANDARIN ESSENTIAL OIL

*Prepared to US OSHA, CMA, ANSI, Canadian WHMIS Standards,  
Australian WorkSafe, Japanese Industrial Standard JIS Z  
7250:2000, and European Directives*

### 1 PRODUCT AND COMPANY IDENTIFICATION

<b>1.1 Trade Name (as labeled):</b>	ORGANIC GREEN MANDARIN ESSENTIAL OIL
Botanical Name:	Citrus reticulata blanco
INCI Name:	Citrus Reticulata Blanco (Green Mandarin) Oil
Synonyms:	None
CAS No:	84929-38-4
EINECS No:	284-521-0
FEMA No:	Not available
<b>1.2 Product Use:</b>	Personal Care Formulations
<b>1.3 Company Name:</b>	<b>Natural Sourcing, LLC.</b>
Company Address:	341 Christian Street, Oxford, CT 06478, USA
Business Phone:	(800) 340-0080
Website:	<a href="http://www.naturalsourcing.com">www.naturalsourcing.com</a>
Email:	info@naturalsourcing.com
<b>1.4 Emergency Telephone Number:</b>	<b>Chemtrec: (800) 262-8200</b>
Date of Current Revision:	September 24, 2022
Date of Last Revision:	New

### 2 HAZARD IDENTIFICATION

**EMERGENCY OVERVIEW:** This product is a green liquid with a characteristic odor.

**Health Hazards:** May cause eye damage. May cause skin irritation and / or cause allergic reaction. Possible aspiration hazard.

**Flammability Hazards:** This product is considered a Flammable liquid with a flash point of 50 °C (122°F).

**Reactivity Hazards:** None.

**Environmental Hazards:** Release of this product may cause adverse effects in the environment.

**US DOT Symbols:**

See Section 14

**EU and GHS Symbols:**



Signal Word:

Danger

#### 2.1 EU Labeling and Classification:

This product does meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

**Components Contributing to Classification:** All Ingredients

**2.2 Label Elements:****GHS Hazard Classifications:**

Flammable Liquid Category 3

Skin Irritation Category 2

Eye Irritation Category 2A

Skin Sensitization Category 1

Aspiration Hazard Category 1

Aquatic Chronic Category 2

**Hazard Statements:**

H226 Flammable liquid Category 3

H315 Causes skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H304 May be fatal if swallowed and enters airways

H411 Toxic to aquatic life with long lasting effects

**Prevention Statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash area affected thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective glove/eye protection/face protection.

**Response Statements:**

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P302+P352 IF ON SKIN: Wash with plenty of water.

P321 Specific Treatment (See Section 4 of this SDS).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so.

Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.

P391 Collect spillage.

**Storage Statements:**

P403 Store in a well-ventilated place.

P405 Store locked up.

**Disposal Statements:**

P501 Dispose of contents/container in accordance with local regulations.

**2.3 Health Hazards or Risks From Exposure:****Symptoms of Overexposure by Route of Exposure:**

The most significant routes of overexposure for this product are by contact with skin, eyes and the respiratory system. The symptoms of overexposure are described in the following paragraphs.

**Acute:**

Inhalation: Mists or spray may cause respiratory irritation.

Skin Contact: May cause skin irritation and sensitization upon direct contact.

Eye Contact: May cause serious eye irritation upon direct contact.

Ingestion: May be harmful if swallowed. Possible aspiration hazard.

**Chronic:** No data available.

**Target Organs:**

Acute: Eyes, Skin, Respiratory system.

Chronic: No data available

**3 COMPOSITION / INFORMATION ON INGREDIENTS****3.1 Type of Product:** Natural Sourcing Organic Essential Oils

Ingredients:	WT%	CAS No.	EINECS No.	Hazard Classification
Citrus reticulata Blanco	100%	8008-31-9	284-521-0	Flam Liq 3, Skin Irrit 2, Eye Irrit 2, Skin Sensitization 1, Asp Tox 1, Aquatic Chronic 2
<i>Components</i>				
D-Limonene	50-100%	5989-27-5	227-813-5	Flam.Liq 3, Asp. Tox. 1, Skin Irrit.2, Skin Sensitization 1, Aquatic Chronic 1, Aquatic Acute 1
pin-2(3)-ene	1-5%	80-56-8	201-291-9	Flam.Liq 3, Asp. Tox. 1, Skin Sensitization 1, Aquatic Chronic 1, Aquatic Acute 1
Myrcene	1-5%	123-35-3	204-622-5	Flam Liq 3, Skin Irrit 2, Eye Irrit 2, Asp Tox 1
Beta pinene	1-5%	127-91-3	204-872-5	Flam.Liq 3, Asp. Tox. 1, Skin Sensitization 1, Aquatic Chronic 1, Aquatic Acute 1
Terpinolene	1-5%	586-62-9	209-578-0	Skin Sensitization 1, Asp. Tox. 1, Aquatic Chronic 1, Aquatic Acute 1
p-cymene	1-5%	99-87-6	202-796-7	Flam Liq 3, Asp Tox 1, Aqua Chron 2
p-mentha-1,3-diene	0.1-1%	99-86-5	202-795-1	Flam Liq 3, Acute Tox 4 (Oral), Asp. Tox. 1, Aquatic Chronic 2
p-menth-1-en-8-ol	0.1-1%	98-55-5	202-680-6	Skin Irrit. 2, Eye Irrit. 2
2-Dodecenal	0.1-1%	4826-62-4	225-402-5	Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 1, Aquatic Acute 1
Lauraldehyde	0.1-1%	112-54-9	203-983-6	Skin Irrit 2, Skin Sens 1, Eye Irrit 2
Octanal	0.1-1%	124-13-0	204-683-8	Flam Liq 3, Skin Irrit 2, Eye Irrit 2, Aquatic Chronic 2
Camphene	0.1-1%	79-92-5	201-234-8	Flam Sol 1, Aquatic Chronic 1, Aquatic Acute 1
beta-Caryophyllene	0.1-1%	87-44-5	201-746-1	Skin Sensitization 1, Asp. Tox. 1
Citronellal	0.1-1%	106-23-0	203-376-6	Flam Liq 4, Asp Tox 1, Acute Tox 5 (Dermal), Skin Irrit 2, Skin Sens 1, Eye Irrit 2, Aquatic Acute 2
Linalool	0.1-1%	78-70-6	201-134-4	Skin Irrit. 2, Eye Irrit. 2, Skin Sensitization 1
Thymol	0.1-1%	89-83-8	201-944-8	Skin Cor 1, Eye Dam 1, Acute Tox 4 (Oral), Aquatic Acute 2
Citral	0.1-1%	5392-40-5	226-394-6	Acute Tox 5 (Dermal), Skin Irrit. 2, Eye Irrit. 2, Skin Sensitization 1; Aquatic Acute 2
di-Citronellol	0.1-1%	106-22-9	203-375-0	Acute Tox 5 (oral), Acute Tox 5 (Inhal), Skin Irrit. 2, Skin Sensitization 1; Eye Irrit. 2, Aquatic Acute 2
Geraniol	0.1-1%	106-24-1	203-377-1	Skin Irrit.2, Eye Damage 1, Skin Sensitization 1
p-Mentha-1,8-dien-7-ai	0.1-1%	2111-57-3	N/A	Skin Sensitization 1

**4 FIRST AID MEASURES****4.1 Description of First Aid Measures:****Eye Contact:**

If product enters the eyes, flush with plenty of water or eye wash solution for several minutes. Seek medical attention if irritation persists.

**Skin Contact:**

Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

**Inhalation:**

If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

**Ingestion:**

If product is swallowed, call physician or poison center if you feel unwell. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

**Medical Conditions Generally Aggravated by Exposure:**

No data available

**4.2 Symptoms and Effects Both Acute and Delayed:**

Contact with skin, eyes, and respiratory system may cause irritation. May cause lung damage if swallowed.

**4.3 Recommendations to Physicians:**

Treat symptoms and eliminate overexposure.

**5 FIRE FIGHTING MEASURES**

**5.1 Fire Extinguishing Materials:**

Use the following fire extinguishing materials:

**Water Spray:** No  
**Foam:** Yes  
**Halon:** No

**Carbon Dioxide:** Yes  
**Dry Chemical:** Yes  
**Other:** Any "B" Class

**5.2 Unusual Fire and Explosion Hazards:**



Irritating and toxic fumes may be produced at high temperatures. Use of water may result in the formation of a toxic aqueous solution. Do not allow run-off from firefighting to enter drains or water courses.

Explosive Sensitivity to Mechanical Impact: No

Explosive Sensitivity to Static Discharge: No

**5.3 Special Fire-Fighting Procedures:**

- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.
- If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM		HMIS RATING SYSTEM	
HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
Flammability	2	<b>HEALTH HAZARD (BLUE)</b>	1
Health	1	<b>FLAMMABILITY HAZARD (RED)</b>	2
Reactivity	0	<b>PHYSICAL HAZARD (YELLOW)</b>	0
Other	-	<b>PROTECTIVE EQUIPMENT</b>	
		EYES	RESPIRATORY
			See Sect 8
		HANDS	BODY
			See Sect 8

**Hazard Scale: 0 = Minimum 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic Hazard**

**6 ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)**

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:**

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/face protection.

**6.2 Environmental Precautions:**

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.

**6.3 Spill and Leak Response:****Small Spills:**

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material. Soak up with absorbent material such as clay, sand or other suitable non-reactive material.

**Large Spills:**

- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

**7 HANDLING AND STORAGE****7.1 Precautions for Safe Handling:**

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling.

**7.2 Storage and Handling Practices:**

Keep away from oxidizing agents. Store in a cool, dry location, in a sealed container in a well-ventilated area away from sources of ignition.

**7.3 Specific Uses:**

Personal care formulations.

**8 EXPOSURE CONTROL/PERSONAL PROTECTION****8.1 Exposure Parameters:**

No specific data available for this product.

**8.2 Exposure Controls:****Ventilation and Engineering Controls:**

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.*

**Respiratory Protection:**

Not required for properly ventilated areas.  
Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**Eye Protection:**

Safety glasses or goggles are recommended.  
If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

**Hand Protection:**

Chemical resistant gloves are required to prevent skin contact.  
If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

**Body Protection:**

Use body protect appropriate to task being performed.  
If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

**9 PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on Basic Physical and Chemical Properties:**

**Appearance (Physical State and Color):** This product is a green liquid

**Odor:** Characteristic

**Odor Threshold:** Not Available

**pH:** Not Available

**Melting/Freezing Point:** -65°C (-85°F)

**Boiling Point:** 160°C (320°F)

**Flash Point:** 51°C (124°F)

**Evaporation Rate:** Not Available

**Flammability (Solid; Gas):** Not Available

**Upper/Lower Flammability or Explosion Limits:** Not Available

**Vapor Pressure (mm Hg @ 20°C (68°F):** Not Available

**Vapor Density:** Not Available

**Relative Density:** 0.8480-0.855

**Specific Gravity:** Not Available

**Solubility in Water:** Insoluble

**Weight per Gallon:** Not Available

**Partition Coefficient (n-octanol/water):** Not Available

**Auto-Ignition Temperature:** Not Available

**Decomposition Temperature:** Not Available

**Viscosity:** Not Available

**9.2 Other Information:** No additional information available at this time.

**10 STABILITY AND REACTIVITY****10.1 Reactivity:**

This product is not reactive.

**10.2 Stability:**

Stable under conditions of normal storage and use.

**10.3 Possibility of Hazardous Reactions:**

Will not occur.

**10.4 Conditions to Avoid:**

No data available.

**10.5 Incompatible Substances:**

No data available.

**10.6 Hazardous Decomposition Products:**

No data available.

**11 TOXICOLOGICAL INFORMATION****11.1 Information on Toxicological Effects:**

8008-31-9 Citrus reticulata Blanco  
Oral, LD50: >5000 mg/kg (Rat) (1974)  
Dermal, LD50: >5000 mg/kg (Rabbit) 1974)

**Component Information:**

5989-27-5 (R)-p-mentha-1,8-diene  
Oral, LD50: 4400 mg/kg (rat)  
98-55-5 p-menth-1-en-8-ol  
Oral, LD50: 4300 mg/kg (rat)  
112-54-9 Lauric aldehyde  
Oral, LD50: 23000 mg/kg (rat)  
124-13-0 octanal  
Oral, LD50: 5630 mg/kg (rat)  
Dermal, LD50: 6350 mg/kg (rabbit)  
87-44-5 beta-Caryophyllene  
Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)  
78-70-6 Linalool  
Oral, LD50: 2790 mg/kg (rat)  
Dermal, LD50: 5610 mg/kg (Rabbit)

**Suspected Cancer Agent:**

Ingredients within this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

**Irritancy:**

Skin, Eyes: Expected to be an irritant

**Sensitization to the Product:**

This product is expected to cause skin sensitization.

**Reproductive Toxicity:**

No specific information is available concerning the effects of this product and its components on the human reproductive system.

**12 ECOLOGICAL INFORMATION****12.1 Toxicity:**

8008-31-9 Citrus reticulata Blanco

EC50/48h: 8.9 mg/l (daphnia)

ErC50(0-72h): 9.7 mg/l (algae)

5989-27-5 (R)-p-mentha-1,8-diene

LC50: 0.71 mg/l (fish)

123-35-3 Myrcene

LD50: 0.51 mg/l (fish)

EC50(48h): 0.65 mg/l (daphnia)

99-87-6 p-cymene

LD50: 1,63 mg/l (fish) (OECD 203)

78-70-6 Linalool

LD50: 27,8 mg/l (fish) ((OECD 203) RIFM 1991)

ErC50(0-72h): 156,7 mg/l (algae)

ErC50(0-48h): 59 mg/l (daphnia) ((OECD 202)

**12.2 Persistence and Degradability:**

No specific data available on this product.

**12.3 Bioaccumulative Potential:**

No specific data available on this product.

**12.4 Mobility in Soil:**

No specific data available on this product.

**12.5 Results of PBT and vPvB Assessment:**

No specific data available on this product.

**12.6 Other Adverse Effects:**

No data available

**12.7 Water Endangerment Class:**

At present, there are no ecotoxicological assessments for this product.

**13 DISPOSAL CONSIDERATIONS****13.1 Waste Treatment Methods:**

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

**13.2 EU Waste Code:**

Not determined

**14 TRANSPORTATION INFORMATION****US DOT, IATA, IMO, ADR:****14.1 U.S. Department of Transportation (DOT) Shipping Regulations:**

*This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.*

**UN Identification Number:**

UN1169

**Proper Shipping Name:**

EXTRACTS, AROMATIC, LIQUID (CITRUS RETICULATA BLANO)

**Hazard Class Number and Description:**

Class 3 – Flammable Liquids

**Packing Group:**

III

**DOT Label(s) Required:**

Flammable Liquid, Environmental / Marine

**North American Emergency Response Guidebook Number:**

127

**RQ Quantity:**

None

**14.2 Environmental Hazards:****Marine Pollutant:**

The components of this product are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

**14.3 Special Precaution for User:**

When shipping as non-bulk this product can be shipped as Non-Regulated.

**14.4 International Air Transport Association Shipping Information (IATA):**

This product is considered as dangerous goods.

**14.5 International Maritime Organization Shipping Information (IMO):**

This product is considered as dangerous goods.

**14.6 Transport in Bulk According to Annex II of Marpol 73/78 and IBC Code:**

European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR:)

This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods.

**15 REGULATORY INFORMATION****15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:****United States Regulations:****U.S. SARA Reporting Requirements:**

The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows: None

**U.S. SARA Threshold Planning Quantity:**

There are no specific Threshold Planning Quantities for the components of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

**U.S. CERCLA Reportable Quantity:**

None

**U.S. TSCA Inventory Status:**

The components of this product are listed on the TSCA Inventory or are exempted from listing.

**Other U.S. Federal Regulations:**

None known

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):**

This product does contain ingredients on the Proposition 65 Lists.  
Beta-Myrcene – Cancer 1-5%

**15.2 Canadian Regulations:****Canadian DSL/NDSL Inventory Status:**

Components are DSL Listed, NDSL Listed and/or are exempt from listing

**Other Canadian Regulations:**

Not applicable

**Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian WHMIS Classification and Symbols:**

This product is considered hazardous per WHMIS Controlled Product Regulations.

**15.3 European Economic Community Information:**

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

**Chemical Safety Assessment:**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**15.4 Australian Information for Product:**

Components of this product are listed on the International Chemical Inventory list.

**15.5 Japanese Information for Product:**

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.



**15.6 International Chemical Inventories:**

Listing of the components on individual country Chemical Inventories is as follows:

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing and New Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

U.S. TSCA: Listed

**16 ADDITIONAL INFORMATION**

Prepared By: Chris Eigbrett (MSDS to GHS Compliance)

Date of Printing: September 24, 2022

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. Natural Sourcing, LLC. assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Natural Sourcing, LLC assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

**END OF SDS SHEET**