



Material Safety Data Sheet

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name	Mandarin Essential Oil
Product Use	Herbal Oil For Aromatherapy Purpose
Company Name	Phytos Natur CZ s.r.o.
Company Address	Okrouhelská 258 252 45, Oleško

2. COMPOSITION/INGREDIENT INFORMATION

Essential Oil	100 % by weight
Botanical Name	Citrus reticulata

3. HAZARDS IDENTIFICATION

Emergency Overview

Medical Information

Please refer Section 4 below

Routes of Entry/Exposure

Skin, Ingestion.

Potential Health Effects

Skin Contact

Irritation may occur with prolonged or repeated exposure.

Ingestion

Hazardous in case of ingestion. May cause renal effects.

4. FIRST AID MEASURES

Medical conditions generally aggravated by exposure.

Skin

Cover with emollient or pure vegetable oil. Seek medical attention if irritation

persists.

Ingestion

Seek medical attention or contact local poison control center immediately. Administer water or milk to dilute if advised by medical expert. Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation.

Remove to fresh air. Seek medical attention if necessary.

5. FIRE FIGHTING MEASURES

Flash Point

98 °C

Auto-ignition Temperature

No data available.

Flammability limits in Air transit

None identified.

Extinguishing Media

Carbon Dioxide or Alcohol-resistant foam based

Fire Fighting Procedures

Self-containing breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Shutoff all ignition sources. Move contain from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Use flooding amounts of water as fog. Cool product containers with flooding amounts of water from as far a distance as possible. Avoid breathing vapors keep upwind. As with any containerized or pressurized chemical, in the event of overheating or direct flame contact, evacuate the area to minimize hazard of potential explosion.

Unusual Fire Hazards

Not expected

Hazardous Decomposition Products

Carbon oxides and traces of incompletely burnt carbon oxides and traces of incompletely burnt carbon.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid contact with eyes.

Protective Equipment

Refer to section 8.

Emergency Procedure

Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

7. HANDLING AND STORAGE

Handling: Apply good manufacturing practice & industrial hygiene practices, ensuring proper workplace ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling. Avoid eye contact and prolonged skin contact.

Storage: Keep container closed and away from heat and flame sources. Since emptied containers retain product residues, all hazard precautions given in this MSDS must be observed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls Eyewash Stations; Ventilation Systems; Showers

Eyes	Use proper protection.
Skin	Rubber gloves are not required during handling, but recommended. To prevent prolonged skin contact wear impervious clothing and boots during handling of spills.
Inhalation	Respirator is advised in the absence of proper ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Color	Yellow to dark green liquid
Odor	Floral citrus mandarin orange
Specific Gravity	0.849 – 0.872
Refractive Index	1.464 – 1.480
Flash Point	98 °C
Solubility in Water	Insoluble in water, soluble in alcohol and oils

10. STABILITY AND REACTIVITY

Conditions to Avoid

Stability	Stable under normal conditions of use. Keep away from sources of ignition, flame and heat. Avoid hot work and sources of ignition on or near empty containers.
Incompatibility (Materials to Avoid)	Strong oxidizing agents.
Byproducts	Compounds may be formed during combustion.

Hazardous Polymerization

Will Not Occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product information

This product is safe for its intended use based on formulation; bulk, finished product, and stability testing results; and a long history of safe consumer use.

Chronic Toxicity

Chronic Toxicity

No specific information is available.

Target Organ Effects

No specific information is available.

12. ECOLOGICAL INFORMATION

Biodegradability

Not determined

Aquatic Toxicity

Non-toxic

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Disposal should be in accordance with all applicable Local, State and Federal regulations. Precautions to be taken in handling and storage. Do not discharge into waterways or sewer systems without proper or Local authorization.

Container Disposal

Dispose in a licensed facility. Additionally, disposal should be in accordance with all applicable Local, State and Federal regulations. Precautions to be taken in handling and storage. Pressurized container. Do not puncture or incinerate. Store in cool, dry area away from the sunlight.

Other

When product is properly discharged in low concentrations to biological wastewater treatment plants it should not cause any disturbances in the degradation activity of the activated sludge.

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods for transport Road and Rail. NON-DANGEROUS GOODS

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IM DG) for transport by sea;
(NON-DANGEROUS GOODS)

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

TSCA

Exempt from TSCA chemical inventory listing requirement.

DSL/NDSL

Exempt from DSL/NDSL chemical inventory listing requirements.

EU Classification
Non-dangerous