



## Safety data sheet

according to 1907/2006/EC, Article 31

Product Name : MANDARIN ESSENTIAL OIL GREEN

Revised Date: 02/01/2020

### SECTION 1: Identification of the substance/ mixture and of the Company/undertaking

#### 1.1. Product identifier

Product name: Mandarin Essential Oil Green

Product code: N/A

CAS Number: 8008-31-9

EINECS: 284-521-0

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

No further relevant information is available.

#### Application of the substance / the mixture:

Reference material for laboratory use only

#### 1.3. Manufacturer/Supplier:

Phytos Natur CZ s.r.o.

Okrouhelská 258

252 45, Oleško

#### 2.1 Classification of the substance/preparation

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

Flam. Liq. 3	Flammable liquid and vapor
Skin Irrit. 2	Causes skin irritation
Eye Irrit. 2	Causes serious eye irritation
Asp. Tox. 1	May be fatal if swallowed and enters airways
Skin Sens. 1	May cause an allergic skin reaction
Aquatic Chronic 1	Very toxic to aquatic life with long-lasting effects

#### 2.2 Label Elements

##### Labeling according to Regulation (EC) No. 1272/2008

This product is classified and labeled according to the CLP regulation.

##### GHS Signal Word

DANGER

##### Hazard Pictograms

GHS07



GHS08



GHS09



GHS02



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## Hazards Statements

Hazard Statements	
H226	Flammable liquid and vapor
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H303	May be harmful if swallowed.
H315+H320	Causes skin and eye irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long-lasting effects

## Precautionary Statements

Prevention	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking
P241	Use explosion-proof electrical/ventilating/light/equipment
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response	
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P331	Do NOT induce vomiting.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash them before reuse.
P370 + P378	In case of fire: Use appropriate media to extinguish.
P391	Collect spillage.

Storage	
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

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Disposal	
<b>P501</b>	Dispose of contents/container in accordance with local/regional/national/international regulation.

## 2.3 Other Hazard

No other hazards.

## SECTION 3: Composition / Information of Ingredients

### 3.1 Chemical characterization: Substance

**CAS Number** : 8008-31-9

**Description** : *Citrus reticulata peel oil*

**EINECS Number** : 284-521-0

### 3.2 Dangerous components:

Name	Ident. Number	Classification
LIMONENE	CAS: 5989-27-5 EC: 227-813-5	Flam. Liq. 3 H226 Asp. Tox. 1 H304 Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410
GAMMA TERPINENE	CAS: 99-85-4 EC: 202-794-6	Flam. Liq. 3 H226 Asp. Tox. 1 H304
ALPHA PINENE	CAS: 80-56-8 EC: 201-291-9	Flam. Liq. 3 H226 Asp. Tox. 1 H304 Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410
BETA MYRCENE	CAS: 123-35-3 EC: 204-622-5	Flam. Liq. 3 H226 Asp. Tox. 1 H304 Aquatic Chronic 3 H412

### Additional Information:

For the wordings of listed H statements refer to section 16

## SECTION 4: First AID Measures

### 4.1 Description of first aid measures

**After inhalation:** Remove from exposure site to fresh air and keep at rest. Obtain medical advice.

**After skin contact:** Remove contaminated clothes. Immediately Wash thoroughly with water (and soap). Contact physician if symptoms persist.

**After eye contact:** Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.

**After ingestion:** Rinse mouth with water and obtain medical advice immediately.

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## 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information is available.

## 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information is available.

## SECTION 5: Fire Fighting Measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Spray, fog, CO<sub>2</sub>, dry chemical, or alcohol-resistant foam.

**Unsuitable extinguishing media:** Do not use a solid water stream as it may scatter and spread the fire.

### 5.2 Special hazards arising from the substance or mixture:

Fire may produce irritating, corrosive and/or toxic gases (Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Smoke and soot). Do not inhale explosion and combustion gases.

### 5.3 Advice for firefighters

**Protective equipment:** Firefighters must use standard protective equipment. Wear self-contained breathing apparatus(SCBA) and protective clothes.

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures.

## 6.1 Personal precautions, protective equipment, and emergency procedures

- Wear personal protection equipment.
- Avoid contact with skin or inhalation of spillage, dust or vapor. Ensure adequate ventilation.
- Remove all sources of ignition.
- Evacuate personnel to safe areas.

Beware Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Follow safety measures in chapter 7 and 8.

## 6.2 Environmental precautions

- Prevent further leakage or spillage if safe to do so. Do not allow product to enter drains.
- Retain contaminated washing water and dispose of it. Discharge into the environment must be avoided.
- In case of gas escape or of entry into the aquatic environment, soil or drains, inform the respective authorities.

## 6.3 Methods and material for containment and cleaning up Wash

- Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13).
- Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with a plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or, diatomite, universal binders, and place into containers.
- Small Spills: Wipe up with absorbent material (e.g. cloth). Clean surface thoroughly to remove remaining pollutants.
- Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste.

## 6.4 Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

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- See Section 13 for disposal information.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

- Do not handle or store near an open flame, heat or other sources of ignition. All equipment used when handling the product must be grounded.
- Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling. Avoid breathing vapor.
- Take precautionary measures against static discharges. Protect against electrostatic charges.
- Avoid breathing vapor.
- Keep ignition sources away - Do not smoke.
- Personal protection equipment see point 8.

### 7.2 Conditions for safe storage, including any incompatibilities

Fire may produce irritating, corrosive and/or toxic gases (Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Smoke and soot). Do not inhale explosion and combustion gases.

### 7.3 Specific end use(s)

No further relevant information available.

## 8.1 Control Parameters

No information Available

## 8.2 Exposure controls

### Personal protective equipment:

#### General protective and hygienic measures:

- Use personal protective equipment depending on concentration and amount of hazardous substance.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the skin.
- Avoid contact with the eyes and skin.

#### Respiratory protection:

Suitable respiratory protection: filter class A2 (brown colour).

Use the rules for application of respiratory protection systems.

#### Protection of hands:

Preventive skin protection by use of skin-protecting agents is recommended.

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

#### Material of gloves

The election of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

> 480 minutes at layerthickness of 0,425 millimeter (Sol-Vex 37-695/Ansell).

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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**For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR

E.g. following product: Sol-Vex (37-695) from Ansell.

**As protection from splashes gloves made of the following materials are suitable:** PVC gloves

**Eye protection:**

Tightly sealed goggles according to EN 166:2001

Body protection: Protective work clothingties

## SECTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

#### a) Appearance

Form	Liquid
Color	Greenish
Odour	Characteristic
Flash point(closed cup)	59°C
Relative density	0.821 - 0.861@25°C
Refractive Index	1.455 - 1.495@25°C

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

Light nad heat.

### 10.5 Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### 10.6 Hazardous decomposition products

None.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Toxicological information of the mixture:

Test: LD50 = 2840mg/kg

Route:oral

Species: Rat

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Acute toxicity:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008
Skin corrosion/irritation:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008
Serious eye damage/irritation:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008
Respiratory or skin sensitisation:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008
Germ cell mutagenicity:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008
Carcinogenicity:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008
Reproductive toxicity:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008
STOT-single exposure:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008
STOT-repeated exposure:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008
Aspiration toxicity:	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008

### 11.2 Exposure limits

No data available.

### 12.1 Toxicity

Not determined.

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not determined.

### 12.4 Mobility in soil

Not available.

### 12.5 Results of PBT and vPvB assessment

Not determined.

### 12.6 Other adverse effects

Do not allow the material to enter streams, sewers or other waterways .

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Container disposal:** Containers must be disposed of as hazardous waste. Do not reuse empty containers. Dilute the remaining material and neutralise. Empty residue into a suitable disposal site.

**Disposal conditions:** Dispose of in accordance with all state and local environmental regulations. This material and its container must be disposed of in a safe way.

**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.

## SECTION 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.

## SECTION 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