



Plant's Power Inc
3-2700 St.Clair Ave west
Toronto, Ontario, M6N 1M2
Contact: 1-416-766-1254

Material Safety Data Sheet Neroli Oil

Section 1: Product and Company Identification

Product Name: Neroli Oil

Botanical Name: *Citrus aurantium* L.

INCI Name: Citrus aurantium flower oil

CAS No.: 8016-38-4

EC No.: 277-143-2

FEMA No.: 2771

UN No.: 3082: Environmentally Hazardous substance, Liquid, N.O.S.

Synonym: *Citrus aurantium bigaradia*

Chemical Identification: Oils, Neroli

Contact Information:

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Section 2: Composition and Information on Ingredients





Composition: Neroli oil is an essential oil derived from the flower of *Citrus aurantium*.

Name: Neroli Oil

CAS No.: 8016-38-4

% by Weight: 100%

Hazardous Components within the meaning of the CLP regulation and related classification:

5%-20% Limonene; CAS No. 138-86-3	
	2.6/3 Flam. Liq. 3 H226
	3.10/1 Asp. Tox. 1 H304
	3.4.2/1 Skin Sens. 1 H317
	4.1/A1 Aquatic Acute 1 H400

Section 3: Hazards Identification

Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP):

Danger, Asp. Tox. 1, may be fatal if swallowed and enters airways.

Warning, Skin Irrit. 2, causes skin irritation

Warning, Skin Sens. 1, may cause an allergic skin reaction

Danger, Eye Dam. 1, causes serious eye damage

Aquatic Chronic 2, Toxic to aquatic life with long lasting effects

Adverse physiochemical, human health and environmental effects: No other hazards

Label Elements

Symbols:



DANGER

Hazard Statements:

H304 – may be fatal if swallowed and enters airways

H315 – causes skin irritation

H317 – may cause an allergic skin reaction

H318 – causes serious eye damage

H411 – toxic to aquatic life with long lasting effects

Precautionary Statements:

P261 – avoid breathing vapours

P273 – avoid release to the environment

P280 – wear protective gloves and eye/face protection

P301 + P310 – IF SWALLOWED: immediately call a doctor

P305 + P351 + P338 – IF IN EYES: rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 – immediately call a doctor

P331 – do NOT induce vomiting

P333 + P313 – if skin irritation or rash occurs: get medical attention/advice

Section 4: First Aid Measures

Description of first aid measures

- In case of skin contact: Immediately take off all contaminated clothing.
Areas of the body that have – or are only even suspected of having – come into contact with product must be rinsed immediately with plenty of running water and possibly with soap. Obtain immediate medical attention.
Wash thoroughly the body (shower or bath).
Remove contaminated clothing immediately and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.
- In case of eyes contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist.
- In case of ingestion: Do NOT induce vomiting.
- In case of inhalation: Remove casualty to fresh air and keep warm and at rest.
- Most important symptoms and effects, both acute and delayed:
Allergic reactions
- Indication of any immediate medical attention and special treatment needed:

In case of accident or unwellness, seek medical advice immediately.
Treatment: treat symptomatically

Section 5: Fire and Explosion

- Extinguishing Media: Water, carbon dioxide (CO₂)
- Special Hazards arising from the Substance or Mixture:
Do not inhale explosion and combustion gases
Burning produces heavy smoke
- Advice for Firefighters: Use suitable breathing apparatus.
Collect contaminated fire extinguishing water separately.
This must not discharge into drains.
Move undamaged containers from immediate hazard area if it can be done safely.
- Data Flammability of the Product: May be combustible at moderate temperature.
- Auto-Ignition Temperature: Not available.
- Flash Points: Closed cup 57°C
- Flammable Limits: Not available.
- Products of Combustion: Combustible liquid.
- Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.
- Fire Fighting Media and Instructions:
- SMALL FIRE: Use DRY chemical powder.
 - LARGE FIRE: Use water spray fog or foam, CO₂, dry chemical.
 - DO NOT use direct water jet on burning material.

Section 6: Accidental Release Measures

- Personal Precautions: Wear personal protection equipment.
Remove all sources of ignition.
Remove persons to safety.
- Environmental Precautions: Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
- Suitable Material for Taking Up: absorbing material, organic, sand
- Methods for Cleaning: Wash with plenty of water.

Section 7: Handling and Storage

Precautions: Avoid contact with skin and eyes, inhalation of vapours and mists. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

Storage: Dry area, unopened containers, optimum temperature 2-10°C

Keep away from food, drink and feed.

Instructions as regards storage premises: Adequately ventilated premises.

Section 8: Exposure Controls/Personal Protection Engineering

Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Exposure Controls:

Eye Protection – eye glasses

Skin Protection – chemical protection clothing

Hand Protection – NBR (nitrile rubber)

Respiratory Protection – not needed for normal use

Section 9: Physical and Chemical Properties

Physical state and appearance: Amber yellow clear liquid.

Odor, taste: Characteristic; typical of orange flowers

pH (1% soln/water): Not applicable.

Flash Point: 61°C

Specific Gravity at 20°C : 0.870 – 0.890

Refractive Index at 20°C: 1.464-1.474

Optical Rotation at 20°C: +2.0 to +11.0

Solubility: Soluble in alcohol and carrier oils . Insoluble in cold water, hot water.

Section 10: Stability and Reactivity

Chemical Stability: The product is stable.

Possibility of Hazardous Reaction: It may catch fire on contact with oxidizing mineral acids, and powerful oxidizing agents.

Conditions to Avoid: Stable under normal conditions

Incompatible Materials: No risk of reaction or danger in case of contact with other

materials.

Hazardous Decomposition: No risk of dangerous decomposition.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact.

Toxicity to Animals: Oral LD50: 5g/kg (rat)
Dermal LD50:>5g/kg (rabbit)

Chronic Effects on Humans:
Not available.

Other Toxic Effects on Humans:
Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals:
Not available.

Special Remarks on Chronic Effects on Humans:
Not available.

Special Remarks on Other Toxic Effects on Humans:
Acute Potential Health Effects

Skin – May cause skin irritation.

Eyes – May cause eye irritation.

Ingestion – Ingestion of large amounts may cause digestive tract irritation.

Inhalation – Breathing high concentrations of vapor may cause an esthetic effects.

Vapor may be irritating to respiratory tract.

Chronic Potential Health Effects

Skin: Repeated contact may cause allergic dermatitis. This product is a natural product for which no health hazard data exist.

Section 12: Ecological Information

Eco-toxicity: Adopt good working practices, so that the product is not releases into the environment.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Section 13: Disposal Considerations

Waste Disposal: Recover if possible. Send to authorized disposal plants or for incineration under controlled conditions. Waste must be disposed of in accordance with federal, provincial or state and local environmental control regulations.

Section 14: Transport Information

UN Number

ADR-UN Number: 3082
IATA-UN Number: 3082
IMDG-UN Number: 3082

UN Proper Shipping Name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S
IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S
IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S

Transport Hazard Class(es)

ADR-Class: 3082
ADR-Label: 9
IATA-Class: 3082
IATA-Label: 9
IMDG-Class: 3082
IMDG-Label: 9

Packing Group

ADR Packing Group: III
IATA Packing Group: III
IMDG Packing Group: III

Environmental Hazards

Marine Pollutant: No

Special Precautions for User

ADR-Tunnel Restriction Code: E
Rail (RID): 3082
IATA-Passenger Aircraft: 964
IATA-Cargo Aircraft: 964
IMDG-Technical Name: ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S

Section 15: Other Regulatory Information

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): This product is not classified according to the EU regulations.

Federal and State Regulations (U.S.A.): Neroli Oil

Other Regulations: Not available.

Other Classifications:

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3 FLAMMABLE
Reactivity: 0
Personal Protection: a
National Fire Protection Association (U.S.A.):
Health: 2
Flammability: 3
Reactivity: 0
Specific hazard:
Protective Equipment: Lab coat, Safety glasses.

Section 16: Other Information

Disclaimer:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Plant's Power be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Plant's Power has been advised of the possibility of such damages.