



Material safety data sheet
According to EU Regulation 1907/2006 in the current version
NEROLI PURE ESSENTIAL OIL

1. Identification of the substance/mixture and company

| | |
|----------------------------------|--|
| Trade name: | Neroli pure essential oil Obtained by steam distillation from the flowers of Citrus aurantium L. var amara L. |
| I.N.C.I. | Citrus aurantium flower oil |
| CAS No. : | 8016-38-4 / 72968-50-4 |
| EINESCS No. : | 277-143-2 |
| REACH pre-registration No. : | 05-2117971783-29-0000 |
| Utilization: | Raw material for cosmetic or professional use |
| Supplier company identification: | Elemental SRL , Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania Tel/Fax: +40259-436.755, www.elemental.eu |
| Emergency: | RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București. International emergency number: +49 180 2273-112 |

2. Hazards Identification

2.1 Classification of the substance or mixture

The product is classified as dangerous according to the provisions of the Directive 67/548 / EEC and 1999/45 / EC and subsequent amendments and adjustments. It is also classified dangerous according to EC Regulation 1272/2008.

The product therefore requires a safety data sheet in accordance with the provisions of the EC Regulation 1907/2006 and subsequent amendments.

The full text of the risk phrases and precautionary phrases cited below is shown in point 16 of this sheet.

Classification according to EC Reg. 1272/2008 (Norm. GHS-CLP).

AH1 - Toxicity in case of aspiration Cat. 1
EDI1 - Serious eye damage / eye irritation Cat.1
EHA1 - Hazardous to the aquatic environment, acute toxicity 1
EHC1 - Hazardous to the aquatic environment, long-term dangers Cat. 1
SCI2 - Skin corrosion / irritation Cat. 2
SS1A - Skin sensitizer Cat. 1A

Hazards: H304 – H315 – H317 – H318 – H400 - H410
Precautions: P264 – P272 - P273 - P280 - P301+P310 – P302+P352
Special instructions: none

2.2 Label elements

Hazard pictograms:





Material safety data sheet

According to EU Regulation 1907/2006 in the current version

NEROLI PURE ESSENTIAL OIL

Hazard statement:

- 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.
- H400 - Very toxic to aquatic organisms.
- H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statement:

- P264 - Wash hands thoroughly after use.
- P272 - Contaminated work clothing should not be carried out of the workplace.
- P273 - Do not disperse in the environment.
- P280 - Wear protective gloves / protective clothing / eye protection / face protection.
- P301 + P310 - In case of ingestion: immediately contact a poison control center or a doctor.
- P302 + P352 - In case of skin contact: wash thoroughly with water and soap.

Special instructions: none

2.3 Other hazards

Contains: Linalool, d-Limonene, Linalyl acetate, Beta-Pinène, Alpha-terpineol, Geraniol, Geranyl acetate, Myrcene, Farnesol.

3. Declaration of ingredients

The product contains the following ingredients:

| Substance | C.A.S. | EINECS | Hazard symbols | Percent % |
|--------------------------------|-----------|-----------|------------------------------------|-------------|
| Linalool | 78-70-6 | 201-134-4 | H315, H317, H319 | [30 ; 50] |
| Linalyl acetate | 115-95-7 | 204-116-4 | H315, H319 | [10 ; 15] |
| d-Limonene | 5989-27-5 | 227-813-5 | H226, H304, H315, H317, H400, H410 | [10 ; 15] |
| Beta-Pinène | 127-91-3 | 204-872-5 | H226, H304, H315, H317, H400, H410 | [5 ; 10] |
| Alpha-Terpineol | 98-55-5 | 202-680-6 | H315, H319 | [1 ; 5] |
| Farnesol | 4602-84-4 | 225-004-1 | H315, H317, H319 | [1 ; 5] |
| Geraniol | 106-24-1 | 203-377-1 | H315, H317, H318 | [1 ; 5] |
| Geranyl acetate | 105-87-3 | 203-341-5 | H315, H317, H412 | [1 ; 5] |
| Myrcene | 123-35-3 | 204-622-5 | H226, H304, H315, H319 | [1 ; 5] |
| Nerolidol (isomer unspecified) | 7212-44-4 | 230-597-5 | H319, H400, H410 | [1 ; 5] |
| alpha-Terpineol | 98-55-5 | 202-680-6 | H315, H319 | [1 ; 5] |
| Citral | 5392-40-5 | 226-394-6 | H315, H317, H319 | [0 ; 1] |



Material safety data sheet
According to EU Regulation 1907/2006 in the current version
NEROLI PURE ESSENTIAL OIL

| | | | | |
|-----------------|----------|-----------|---------------------------------|-----------|
| Geranyl acetate | 105-87-3 | 203-341-5 | H315, H317, H412 | [0 ; 1] |
| Nerol | 106-25-2 | 203-378-7 | H315, H317, H319 | [0 ; 1] |
| Terpinolene | 586-62-9 | 209-578-0 | H226, H304, H317, H400, H410 | [0 ; 1] |

4. First aid measures

4.1 Description of first aid measures

In case of contact with skin: wash the affected area immediately with plenty of soap and water, if irritation persists seek medical attention.

In case of contact with eyes: rinse with plenty of water for at least 15 minutes (while holding eyelids apart), if irritation persists seek medical attention.

If swallowed: rinse mouth with water, do not induce vomiting. Consult your doctor immediately.

In case of inhalation: take the person to fresh air, remove contaminated clothes, if difficulty of breathing persists seek medical attention.

4.2 Main symptoms and effects, both acute and delayed

In case of contact with skin, may cause irritation. May cause illness in case of inhalation.

4.3 Indication to consult a physician immediately or any special treatments

In case of illness contact your physician immediately.

5. Fire fighting measures

5.1 Means of extinction

Do not use water to extinguish fire. Use foam fire extinguishers, with carbon dioxide or powder.

5.2 Special hazards arising from the substance or mixture

During the fire toxic fumes could be released, use protective masks. Overpressure can be created in containers exposed to fire with danger of explosion, cool the containers before handling them.

5.3 Recommendations for fire-fighters

Always wear full fire protection equipment (protective helmet with visor, fireproof clothing, intervention gloves, breathing apparatus).

6. Accidental release measures

6.1 Personal precautions, protective devices and emergency procedures

In case of loss or spillage of the product, remove any flames or other sources of heat from the area where the leak occurred. Use protection if necessary for airways; protective clothing must be worn (eg. safety glasses or masks). Do not handle damaged containers or spilled product without wearing the appropriate protective equipment.



Material safety data sheet
According to EU Regulation 1907/2006 in the current version
NEROLI PURE ESSENTIAL OIL

6.2 Environmental precautions

Prevent the product from entering drains, superficial drains, groundwater and confined areas. In case of such contamination inform the competent authorities.

6.3 Methods and materials for containment and remediation

Absorb spilled product with inert absorbent material (sand, vermiculite, diatomaceous earth). Collect most of the resulting material and deposit it in containers for disposal. Ensure adequate ventilation of the site.

6.4 Reference to other sections

Disposal of the contaminated material must be carried out in accordance with the provisions of point 13.

7. Handling and storage

7.1 Precautions for safe handling

Use in well-ventilated places. Do not eat, drink or smoke during use product handling. Always wash your hands before and after use. Use protective clothing.

7.2 Conditions for safe storage, including any incompatibilities

Store in well-filled, tightly closed containers, away from direct sunlight and a temperature below 50°C away from any source of combustion. Do not smoke.

7.3 Specific end uses

None.

8. Exposure controls / personal protection

8.1 Control parameters

There are no specific control parameters.

8.2 Exposure controls



Hand protection: Protect hands with category I work gloves (ref. Directive 89/686 / EEC and standard EN 374) such as latex, PVC or equivalent.

Skin protection: Wear work clothes with long sleeves and safety footwear for professional use of category I (ref. Directive 89/686 / EEC and standard EN 344). Wash with soap and water after removing protective clothing.

Respiratory protection: Use protective masks. The use of respiratory protection is necessary in the absence of technical measures to limit worker exposure.

Eye protection: it is recommended to wear airtight protective goggles (ref. Standard EN 166).

9. Physical and chemical properties

9.1 Information on physical and chemical properties



Material safety data sheet
According to EU Regulation 1907/2006 in the current version
NEROLI PURE ESSENTIAL OIL

Appearance: liquid
Color: from pale yellow to amber yellow
Odor: floral, pleasant
Relative density (d 20 / 20): [0.850 ; 0.990]
Refractive index at 20°C: [1.440 ; 1.485]
Optical rotation (°): [0 ; +12]
Flash point: 68°C
Odor threshold: NA
pH: NA
Melting point / freezing point: NA
Initial boiling point and boiling range: NA
Flash point: NA
Evaporation rate: NA
Flammability (solid, gas): NA
Upper / lower flammability or explosive limits: NA
Vapor tension: NA
Vapor density: NA
Solubility in water: NA
Partition coefficient: n-octanol / water NA
Auto-ignition temperature: NA
Decomposition temperature: NA
Viscosity: NA
Explosive properties: NA
Oxidizing properties: NA

9.2 Other information
None

10. Stability and reactivity

Stable under normal conditions of use.

10.1 Responsiveness
Not applicable

10.2 Chemical stability
Not applicable

10.3 Possibility of dangerous reactions
Not applicable

10.4 Conditions to avoid
Not applicable

10.5 Incompatible materials
Not applicable

10.6 Hazardous decomposition products
Not applicable



Material safety data sheet
According to EU Regulation 1907/2006 in the current version
NEROLI PURE ESSENTIAL OIL

11. Toxicological information

11.1 Information on toxicological effects

Toxicological information: does not apply

Acute toxicity information:

- Oral (mg / kg): not determined
- Inhalation (mg / kg): not determined
- Cutaneous (mg / kg): not determined

12. Ecological information

12.1 Toxicity

Do not let the product penetrate, even in large diluted quantities, into groundwater or drains.

12.2 Persistence and degradability

Not applicable

12.3 Bioaccumulation potential

Not applicable

12.4 Ground mobility

Not applicable

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

Not applicable

13. Disposal considerations

13.1 Waste treatment methods

Product residues are to be considered special hazardous waste. The danger of the waste that partly contains this product must be assessed on the basis of current legislative provisions.

Disposal must be entrusted to an authorized waste management company in compliance with national and possibly local legislation.

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

14. Transport information

Material safety data sheet
According to EU Regulation 1907/2006 in the current version
NEROLI PURE ESSENTIAL OIL

| | | |
|--|---|---|
|  <p>ADR / RID</p> |  <p>IMDG</p> |  <p>IATA</p> |
|--|---|---|

14.1 UN number

ADR: 3082 (Tunnel restriction code: E)

IMDG: 3082

IATA: 3082

Customs Code: 33012941

14.2 UN shipping name

ADR: DANGEROUS SUBSTANCE FOR THE ENVIRONMENT, LIQUID, N.A.S. (D-Limonene)

IMDG: DANGEROUS SUBSTANCE FOR THE ENVIRONMENT, LIQUID, N.A.S. (D-Limonene)

IATA: DANGEROUS SUBSTANCE FOR THE ENVIRONMENT, LIQUID, N.A.S. (D-Limonene)

14.3 Class of danger for transport

ADR: 9

IMDG: 9

IATA: 9

14.4 Packing group

ADR: III

IMDG: III

IATA: III

14.5 Environmental hazards

IMDG: marine pollutant

14.6 Special precautions for users

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not applicable

15. Regulatory information

15.1 Regulations and legislation on health, safety and environment specific to the substance or mixture

Not applicable

15.2 Chemical safety assessment.

Components: Linalool, d-Limonene, Linalyl acetate, Beta-Pinène, Alpha-Terpineol, Geraniol, Geranyl acetate, Myrcene, Farnesol. May cause allergic reaction.



Material safety data sheet
According to EU Regulation 1907/2006 in the current version
NEROLI PURE ESSENTIAL OIL

16. Additional information

16.1 Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
LTE: Long-term exposure.
PNEC: Predicted No Effect Concentration.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE: Short-term exposure.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.

16.2 Full text of the H phrases mentioned in point 3:

H226 - Flammable liquid and vapor.
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.
H319 - Causes serious eye irritation.
H400 - Very toxic to aquatic organisms.
H410 - Very toxic to aquatic life with long lasting effects.
H412 - Harmful to aquatic life with long lasting effects.
P261 - Avoid from breathing dust / fumes / gases / mist / vapors / aerosols.



Material safety data sheet

According to EU Regulation 1907/2006 in the current version

NEROLI PURE ESSENTIAL OIL

DECLARATION OF ALLERGENS

7th Amendment to Directive 76/768/EC, annex III, part I (2003/15/EC)

| I.N.C.I. | C.A.S. | % |
|---|------------|---------|
| Alpha-Hexyl cinnamic aldehyde (HCA) | 101-86-0 | - |
| Amyl cinnamic alcohol | 101-85-9 | - |
| Amyl cinnamic aldehyde (ACA) | 122-40-7 | - |
| Anisyl alcohol | 105-13-5 | - |
| Benzyl salicylate | 118-58-1 | - |
| Benzyl benzoate | 120-51-4 | - |
| Benzyl cinnamate | 103-41-3 | - |
| Benzyl alcohol | 100-51-6 | - |
| Cinnamic alcohol | 104-54-1 | - |
| Cinnamic aldehyde | 104-55-2 | - |
| Citral | 5392-40-5 | 0,3579 |
| Citronellol | 106-22-9 | - |
| Coumarin (2p-1-benzopyran-2-one) | 91-64-5 | - |
| d-Limonene | 5989-27-5 | 14,9745 |
| Eugenol | 97-53-0 | - |
| Farnesol | 4602-84-0 | 1,2259 |
| Geraniol | 106-24-1 | 2,9990 |
| Lylal (Hydroxymethylpentyl cyclohexene carbaldoxaldehyde) | 31906-04-4 | - |
| Hydroxycitronellal | 107-75-5 | - |
| Isoeugenol | 97-54-1 | - |
| alpha-Iso-methyl ionone | 127-51-5 | - |
| Linalool | 78-70-6 | 42,1780 |
| Methyl heptine carbonate | 12/06/11 | - |
| Oakmoss absolute | 9000-50-4 | - |
| p-tert-Butyl-alpha- methylhydrocinnamic aldehyde | 80-54-6 | - |
| Tree moss | 68648-41-9 | - |

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.