

In conformity with regulation (EC) No.: 1272/2008 (also called CLP)

**1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY:**

**1.1 Product Identifier:**

Name	: <b>NEROLI OIL</b>	EINECS	: 277-143-2
<b>Botanical source</b>	: <i>Citrus aurantium L. ssp amara</i>	IFRA conformity	: yes
INCI name	: <i>Citrus aurantium</i> Oil	FEMA	: 2771
CAS TSCA	: 8016-38-4	FDA	: 182.20
CAS EINECS	: 72968-50-4	CN code	: 3301.29.60

**1.2 Details Of The Supplier Of The Safety Data Sheet:**

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**2. HAZARDS IDENTIFICATION:**

**Classification of the Substance:**

Flam. Liq. 3	H226: Flammable liquid and vapour
Asp. Tox. 1	H304: May be fatal if swallowed and enters airways
Skin Irrit. 2	H315: Causes skin irritation
Skin Sens. 1	H317: May cause an allergic skin reaction
Eye Irrit. 2A	H319: Causes serious eye irritation
Aquatic Acute 1	H400: Very toxic to aquatic life
Aquatic Chronic 3	H412: Harmful to aquatic life with long-lasting effects

**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 GHS02 GHS09 GHS08

**Hazard Statements:**

**Health Hazards:**

H226	: Flammable liquid and vapour
H304	: May be fatal if swallowed and enters airways.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction
H319	: Causes serious eye irritation
H400	: Very toxic to aquatic life
H412	: Harmful to aquatic life with long lasting effects.

**Precaution Statements:**

**Prevention:**

- P210 Keep away from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking.
- P262 Do not get in eyes, on skin, or on clothing
- P273 Avoid release to the environment
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P302+350 IF ON SKIN: Gently wash with soap and water
- P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – c
- P405 Store locked up
- P501 Dispose of contents/container to ... (in accordance with local/regional/national/international regulation)

**3. COMPOSITION / INFORMATION ON INGREDIENTS:**

**Chemical characterization: Substance**

- TSCA CAS Number : 8016-38-4
- EINECS CAS Number : 72968-50-4
- Description : Citrus aurantium
- EINECS Number : 277-143-2

**Dangerous components:**

- LIMONENE** : (CAS No. 5989-27-5) AH 1, EH A1, EH C1, FL 3, SCI 2, SS 1B-H304, H226, H315, H317, H410; Amount: 8-18%
- LINALOOL** : (CAS No. 78-70-6) ATO 5, EDI 2A, EH A3, FL 4, SCI 2-H303, H319, H227, H315, H402; Amount: 28-55%
- LINALYL ACETATE** : (CAS No. 115-95-7) EDI 2A, EH A3, FL 4, SCI 2-H319, H227, H315, H402; Amount: 2-25%

**4. FIRST-AID MEASURES:**

- Skin contact** : Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. If irritation persists, seek medical advice.
- Eye contact** : Rinse immediately with plenty of water for at least 15 mins. Contact a doctor if symptoms persist.
- Ingestion** : Rinse mouth out with water and seek medical advice immediately.
- Inhalation** : Remove from exposure site to fresh air. Keep at rest. Obtain medical attention.
- Other** : When assessing action take Risk & Safety Phrases into account (Section 15)

**5. FIRE FIGHTING MEASURES:**

**Extinguishing media:** Use CO<sub>2</sub>, Dry Powder or Foam type Extinguishers, spraying recommended extinguishing media to base of flames. Do not use direct water jet on burning material.

**Special measures:** Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.

**Extinguishing procedures:** Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

#### 6. ACCIDENTAL RELEASE MEASURES:

**Personal precautions:** Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.

**Environment precautions:** Keep away from drains, soils, surface & ground waters.

**Cleaning up methods:** Remove all potential ignition sources. Contain spilled material. Cover for spillage with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Observe state, federal & local disposal regulations.

#### 7. HANDLING AND STORAGE:

**Precautions in handling:** Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.

**Storage conditions:** Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.

**Fire protection:** Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

#### 8. EXPOSURE CONTROL / PERSONAL PROTECTION:

**Respiratory protection** : Avoid breathing product vapour. Apply local ventilation where possible.



**Ventilation** : Ensure good ventilation of working area.

**Hand protection** : Avoid all skin contact. Use chemically resistant gloves if required.



**Eye protection** : Use safety glasses.



**Work/Hygiene practices** : Wash hands with soap & water after handling.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES:

**Odor** : Powerful, sweet-terpene, citrusy aroma.  
**Appearance** : Colorless to pale yellow Liquid.  
**Solubility in water** : Insoluble.  
**Solubility in alcohol** : Soluble ethanol  
**Density @20°C** : 0.863 - 0.876  
**Refractive index @20°C** : 1.464 - 1.474  
**Optical rotation @20°C** : +1° to +14°  
**Acid value** : N/A  
**Ester value** : N/A  
**Flashpoint** : 55°C

#### 10. STABILITY AND REACTIVITY:

**Reactivity** : It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.

**Decomposition** : Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

Under conditions described in point 7, the product is stable during 2 years (minimum) in an original closed packaging.

#### 11. TOXICOLOGICAL INFORMATION:

**Ingestion effect** : DL50 oral (Mouse) : >5,000 mg/kg

**Skin contact effect** : DL50 dermal (Rabbit) : no available data

**12. ECOLOGICAL INFORMATION:**

**Biodegradability** : Data not available  
**Precautions** : Prevent surface contamination of soil, ground & surface water.

**13. DISPOSAL CONSIDERATIONS:**

Avoid disposing to drainage systems and into the environment. Seek expert advice.

**14. TRANSPORT REGULATIONS:**

**Classification:**

**Land Transport (ADR/RID/GGVSE)**

UN Number 1993  
DG Class 3  
Packing Group III  
Proper Shipping Name Flammable Liquid, N.O.S.  
Classification code 3Y  
Danger Label 3, Fish & tree

**Sea Transport (IMDG-Code/GGVSE)**

UN Number 1993  
DG Class 3  
Packing Group III  
Proper Shipping Name Flammable Liquid, N.O.S.  
Marine Pollutant Yes  
Danger Label 3, Fish & tree

**Air Transport (ICAO-TI/IATA-DGR)**

UN Number 1993  
DG Class 3  
Packing Group III  
Proper Shipping Name Flammable Liquid, N.O.S.  
Marine Pollutant Yes  
Danger Label 3, Fish & tree

**Special precautions for users:**

Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before reuse.  
Prevent entry into drains, ground/surface water or sewerage system

**15. REGULATORY INFORMATION:**

**EU regulations:**

The product has been classified and marked in accordance with EU Directives/ Ordinance on Hazardous Materials.

**Water Hazard Class (Germany):** WGK 2

**Chemical safety Assessment** No data available

**Other regulations, limitations and prohibitive regulations**

**EPA** No  
**TSCA** Yes  
**DSL** Yes  
**Preposition 65** No

**16. OTHER INFORMATION:**

**Abbreviations used:**

<b>EC</b>	European Commission
<b>EU</b>	European Union
<b>DG</b>	Dangerous Goods
<b>CAS</b>	Chemical Abstract Service
<b>EINECS</b>	European Inventory of Existing Commercial chemical Substances
<b>GHS</b>	Globally Harmonized System
<b>CMR</b>	Carcinogen, Mutagen, Reprotoxic
<b>PNEC</b>	Predicted No Effect Concentration
<b>EC50</b>	Effective Concentration 50 percent
<b>LC50</b>	Lethal Concentration 50 percent
<b>PBT</b>	Persistent Bioaccumulative and Toxic
<b>vPvB</b>	Very Persistent Very Bioaccumulative
<b>EWC</b>	European Waste Catalogue
<b>EmS</b>	Emergency Medical Services
<b>ADR</b>	Transport of Dangerous Goods by Road
<b>RID</b>	International Carriage of Dangerous Goods by Rail
<b>GGVSE</b>	German Regulation on the Transport of Dangerous Goods by Road and Rail
<b>MDG</b>	International Maritime Dangerous Goods
<b>ICAO-TI</b>	International Civil Aviation Organization-Technical Instructions
<b>IATA-DGR</b>	International Air Transport Association-Dangerous Goods Regulation
<b>WGK</b>	Wassergefährdungsklassen
<b>EPA</b>	Environmental Protection Agency
<b>TSCA</b>	Toxic Substance Control Act
<b>DSL</b>	Dangerous Substance List

**Relevant Phrases**

H226	Flammable liquid and vapour
H227	Combustible liquid
H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
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H319	Causes serious eye irritation
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects

**Disclaimer:**

*The data provided in this safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.*