



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1 Product Identifier

Parameter	Details
Product Name	Neroli Essential Oil
Botanical Name	<i>Citrus aurantium</i> L. var. <i>amara</i>
INCI Name	Citrus Aurantium Amara (Bitter Orange) Flower Oil
CAS Number	8016-38-4
EC Number	277-143-2
FEMA Number	2771
EINECS Name	<i>Citrus Aurantium Amara Flower Oil</i>
Extraction Method	Steam Distillation
Plant Part	Flowers
Origin	Tunisia / Morocco / Egypt (depending on production lot)
Product Type	Natural Essential Oil

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification According to Regulation (EC) No. 1272/2008

Hazard Class	Category
Skin Sensitisation	Category 1
Aspiration Hazard	Category 1
Aquatic Chronic	Category 2

These classifications are representative of commercial SDSs for neroli essential oil, reflecting its terpene-rich composition and sensitising potential.

Signal Word

DANGER

Hazard Statements

- H304 May be fatal if swallowed and enters airways.
- H317 May cause an allergic skin reaction.



- H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

- P261 Avoid breathing vapours.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves and eye protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTRE or physician.
- P331 Do NOT induce vomiting.
- P333+P313 If skin irritation or rash occurs: Get medical advice.
- P391 Collect spillage.
- P501 Dispose of contents/container in accordance with local regulations.

2.3 Other Hazards

- Concentrated essential oil may cause irritation after prolonged skin contact.
- Oxidation during storage may increase skin sensitisation potential.
- Not classified as PBT or vPvB according to available information.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS	Typical Concentration
Neroli Essential Oil (<i>Citrus aurantium</i> var. <i>amara</i>)	8016-38-4	100%

Principal Constituents (Typical GC Profile)

Component	Typical %
Linalool	25–45
Linalyl Acetate	8–18
Limonene	5–15
α -Terpineol	3–8
Nerolidol	2–8
β -Pinene	1–5
α -Pinene	0.5–3
Geraniol	0.5–2
Farnesol	Trace–2

SECTION 4: FIRST AID MEASURES



Inhalation

Move to fresh air. Obtain medical advice if symptoms persist.

Skin Contact

Wash thoroughly with soap and water. Remove contaminated clothing.

Eye Contact

Flush immediately with water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion

Do **not** induce vomiting due to aspiration hazard.

Seek immediate medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:

- Carbon dioxide
- Dry chemical
- Alcohol-resistant foam
- Water fog

Hazardous combustion products:

- Carbon monoxide
- Carbon dioxide
- Irritating organic vapours

Firefighters should wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Eliminate ignition sources.
- Avoid environmental release.



- Absorb with inert material.
- Dispose according to local regulations.

SECTION 7: HANDLING AND STORAGE

Handle:

- with adequate ventilation;
- avoiding skin and eye contact; and
- away from ignition sources.

Store:

- tightly closed;
- between 5–25 °C;
- protected from sunlight and air;
- away from strong oxidising agents.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Local exhaust ventilation recommended.

Personal Protective Equipment

- Nitrile gloves
- Chemical safety glasses
- Protective clothing

Respiratory Protection

Organic vapour respirator where ventilation is inadequate.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical Value
Appearance	Clear pale yellow to amber liquid



Property	Typical Value
Odour	Sweet, floral, orange blossom, fresh citrus
Relative Density (20 °C)	0.865–0.885
Refractive Index (20 °C)	1.465–1.475
Optical Rotation	+1° to +12°
Flash Point	65–75 °C
Solubility in Water	Insoluble
Solubility in Ethanol	Soluble

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Avoid:

- Heat
- Air exposure
- Direct sunlight
- Strong oxidising agents

Hazardous decomposition products:

- Carbon monoxide
 - Carbon dioxide
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SECTION 11: TOXICOLOGICAL INFORMATION

Routes of exposure:

- Skin
- Eyes
- Inhalation
- Ingestion

Potential effects:

- Skin sensitisation.
- Mild eye irritation.
- Aspiration hazard if swallowed.



- High vapour concentrations may cause mild respiratory irritation.
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SECTION 12: ECOLOGICAL INFORMATION

- Toxic to aquatic organisms with long-lasting effects.
 - Avoid release into drains and waterways.
 - Biodegradable under normal environmental conditions, but concentrated releases should be prevented.
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SECTION 13: DISPOSAL CONSIDERATIONS

Dispose through an authorised chemical waste contractor.

Do not discharge into drains.

SECTION 14: TRANSPORT INFORMATION

Item	Details
UN Number	Not regulated (small quantities may vary by transport mode)
Proper Shipping Name	Not regulated
Transport Hazard Class	Not regulated
Packing Group	Not applicable
Marine Pollutant	Environmentally hazardous in bulk quantities

SECTION 15: REGULATORY INFORMATION

Prepared with reference to:

- REACH Regulation (EC) No. 1907/2006
 - Regulation (EU) 2020/878
 - CLP Regulation (EC) No. 1272/2008
 - Cosmetic Regulation (EC) No. 1223/2009
 - IFRA Standards (current edition)
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SECTION 16: OTHER INFORMATION

Storage Recommendation

Store:

- Between 5–25 °C
- In full, airtight containers
- Protected from light and moisture
- Away from heat and oxidising agents

Shelf Life

24 months under recommended storage conditions.

Disclaimer

The information contained in this Safety Data Sheet is based on representative supplier data and current regulatory knowledge. Natural essential oils exhibit normal batch-to-batch variation in composition due to origin, climate and harvest conditions. This document is intended solely for guidance on safe handling, storage, transport and use.

AUTHORISED BY

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