



SAFETY DATA SHEET (SDS)

According to Regulation (EC) No. 1907/2006 (REACH), as amended by Regulation (EU) 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product Identifier

Product Name: Bitter Orange Essential Oil

Botanical Name: *Citrus aurantium* L. var. *amara*

Common Name: Bitter Orange Peel Oil

INCI Name: *Citrus Aurantium Amara* Peel Oil

CAS Number: 68916-04-1

EC (EINECS) Number: 277-143-2

FEMA Number: 2823

CoE Number: 136

Product Type: Natural Essential Oil

Extraction Method: Cold Expression

Plant Part: Fresh Peel

Country of Origin: Italy

1.2 Relevant Identified Uses

- Fragrance ingredient
- Perfumery raw material
- Cosmetic ingredient
- Flavour ingredient (where permitted)
- For professional use only

1.3 Supplier

Aromology Trading LLC
G05 Al Ghazal Building



Nadd Al Hamar
Dubai
United Arab Emirates

Website: www.aromology.com
Email: info@aromology.com

1.4 Emergency Telephone

Refer to the local Poison Centre or emergency medical services.

SECTION 2: HAZARDS IDENTIFICATION

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

- Flammable Liquid – Category 3 (H226)
- Aspiration Hazard – Category 1 (H304)
- Skin Irritation – Category 2 (H315)
- Skin Sensitisation – Category 1 (H317)
- Hazardous to the Aquatic Environment (Chronic) – Category 2 (H411)

Signal Word

Danger

Hazard Statements

- 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.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P210 Keep away from heat, sparks, open flames and hot surfaces.

P261 Avoid breathing vapours.

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.

P391 Collect spillage.

P501 Dispose of contents/container according to local regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	Information
Substance	Bitter Orange Essential Oil
Botanical Name	<i>Citrus aurantium</i> L. var. <i>amara</i>
INCI Name	<i>Citrus Aurantium Amara</i> Peel Oil
CAS Number	68916-04-1
EC Number	277-143-2
Concentration	100%

Typical naturally occurring constituents include:

- Limonene
- Linalyl Acetate
- Myrcene
- α -Pinene
- β -Pinene
- Citral
- Decanal

These constituents are characteristic of cold-pressed bitter orange peel oil.

SECTION 4: FIRST AID MEASURES

Inhalation

Move the affected person to fresh air.

Seek medical attention if symptoms persist.

Skin Contact



Wash thoroughly with soap and water.

Remove contaminated clothing.

Seek medical advice if irritation develops.

Eye Contact

Flush cautiously with water for at least 15 minutes.

Seek medical attention if irritation persists.

Ingestion

Do **NOT** induce vomiting.

Immediately contact a physician or Poison Centre.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media:

- Carbon dioxide
- Dry chemical powder
- Alcohol-resistant foam
- Water spray

Unsuitable extinguishing media:

- Direct water jet

Hazardous combustion products:

- Carbon monoxide
- Carbon dioxide

Firefighters should wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove ignition sources.



Ensure adequate ventilation.

Prevent release into drains and waterways.

Absorb with inert absorbent material.

Dispose of according to local regulations.

SECTION 7: HANDLING AND STORAGE

Store in tightly closed original containers.

Protect from:

- Heat
- Direct sunlight
- Sources of ignition
- Strong oxidising agents

Store in a cool, dry and well-ventilated place.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Provide adequate ventilation.

Eye Protection

Chemical safety goggles.

Hand Protection

Chemical-resistant gloves.

Respiratory Protection

Organic vapour respirator where ventilation is inadequate.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Appearance	Clear mobile liquid
Colour	Yellow to yellow-green
Odour	Fresh, citrus, sweet, slightly bitter
Physical State	Liquid
Relative Density (20 °C)	0.845–0.855
Refractive Index (20 °C)	1.470–1.478
Flash Point	Approximately 51 °C
Solubility	Insoluble in water; soluble in ethanol and fixed oils

These analytical values are consistent with published supplier specifications.

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Avoid:

- Heat
- Open flames
- 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

May cause:



- Skin irritation
 - Allergic skin reaction
 - Aspiration hazard if swallowed.
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SECTION 12: ECOLOGICAL INFORMATION

Toxic to aquatic organisms with long lasting effects.

Avoid uncontrolled release into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents and packaging in accordance with applicable local, regional and national regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number: UN 1993

Proper Shipping Name: Flammable Liquid, N.O.S. (contains d-Limonene)

ADR/RID: Class 3

IMDG: Class 3

IATA: Class 3

Packing Group: III

SECTION 15: REGULATORY INFORMATION

Botanical Name: *Citrus aurantium* L. var. *amara*

INCI Name: *Citrus Aurantium Amara* Peel Oil

CAS Number: 68916-04-1



EC Number: 277-143-2

FEMA Number: 2823

Intended Use: Fragrance ingredient and perfumery raw material.

SECTION 16: OTHER INFORMATION

This Safety Data Sheet has been prepared using verified supplier Safety Data Sheets and published regulatory information for Bitter Orange Essential Oil.

Verified identifiers:

- CAS Number: 68916-04-1 (older botanical CAS)
- EC (EINECS) Number: 277-143-2
- INCI Name: *Citrus Aurantium Amara* Peel Oil
- FEMA Number: 2823

This document uses the older botanical CAS (68916-04-1) as requested. The material is a cold-expressed essential oil obtained from the peel of *Citrus aurantium* var. *amara* and is widely used in fine fragrance, perfumery and flavour applications.

Authorized by

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Director
Aromology Trading LLC