

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Bergamot-Bergaptene Free (Calabrian) Essential Oil
Botanical name	:	Citrus bergamia, Risso
INCI name	:	Citrus bergamia (Bergamot) Oil
CAS #	:	8007-75-8 / 68648-33-9
Country of Originb	:	Italy
EINECS #	:	*616-915-9 / *614-687-5
Product use	:	Domestic and Industrial

2. HAZARDS IDENTIFICATION**Emergency Overview****GHS Classification**

Flammable liquids - Category 3

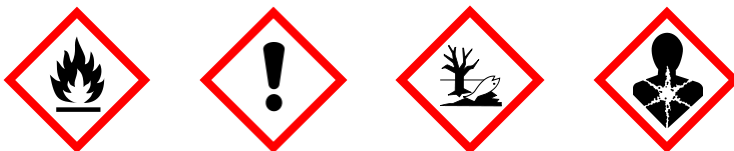
Aspiration Hazard - Category 1

Skin corrosion/irritation - Category 2

Skin sensitization - Category 1

Eye damage/irritation -Category 2

Hazardous to the aquatic environment - Chronic - Category 3

GHS Label elements, including precautionary statements

Signal: Danger

Hazard statement(s)

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.
H412	Harmful to aquatic life with long-lasting effects.

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use CO2 foam, dry chemical to extinguish.
P391	Collect spillage.
P403+P235	Store in a well ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents and container in accordance with local, regional, national and/or international regulation for hazardous wastes.

3. COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
Limonene	138-86-3	138-86-3	30- 50 %
Citral	53952-40-5	226-394-6	0.1 - 1.5 %

4. FIRST AID MEASURES**Eye contact**

Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

Skin contact

Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

Inhalation

If inhaled, removed to fresh air. Get medical attention if symptoms appear.

Ingestion

Seek medical attention or contact local poison control center.

5. FIRE FIGHTING MEASURES**Suitable extinguishing media**

Foam. Dry Powder. Carbon dioxide.

Unsuitable extinguishing media

Water spray, water jet.

Special protective equipment and precautions for fire-fighters

Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or its combustible products

Hazardous decomposition products may be formed at extreme heat or if burned.

Resulting gases

Carbon Monoxide, Carbon Dioxide.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures.**

Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Methods and materials for containment and cleaning up

Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

7. HANDLING AND STORAGE

Precautions for safe handling

No direct lighting. No smoking. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

Conditions for safe storage, including any incompatibilities

Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Keep container closed when not in use.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure controls

Odor is inadequate to warn of overexposure.

Eyes

The use of safety glasses is recommended. If a material is to be handled in a manner where splashing may occur, the use of splash goggles or face shield is recommended

Skin

If skin contact or contamination of clothing is likely, protective clothing should be worn. Use Nitrile Rubber protective gloves.

Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment.

Ingestion

Not for ingestion.

Control parameters

Citral (CAS: 5392-40-5): OEL type: ACGIH - TWA (8h): 5 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Colorless to pale green-yellow liquid.
Odor	:	Fresh and citrusy odor.
Flash point	:	57 °C
Relative density	:	0.866 to 0.878 @ 20 °C
Solubility (ies)	:	Soluble in alcohol and oils. Insoluble in water.
Partition coefficient	:	log Kow 2.14 to 6.3
Refractive index	:	1.462 to 1.468 @ 20 °C
Optical rotation	:	+20° to +40° @ 20 °C

10. STABILITY AND REACTIVITY

Reactivity

This material presents no significant reactivity hazard.

Chemical stability

Chemically stable.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Avoid sparks, flame and other heat sources.

Incompatible materials

Strongly oxidizing and reducing agents.

Hazardous decomposition products

When heated to decomposition produces acid fumes and carbon monoxide smoke.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not available.

Carcinogenicity

None of the components of this material are listed as a carcinogen.

Chronic toxicity

May cause allergic reactions on skin.

Reproductive toxicity

No adverse effects on reproduction are known.

Inhalation

Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.

Skin contact

Adverse skin effects should be prevented by normal care and personal hygiene.

Eye contact

Possible irritation should be prevented by wearing safety glasses.

Ingestion

Low order toxicity causing irritation of the stomach and intestines which results in nausea and vomiting

Repeated exposure

Repeated or prolonged contact may cause redness, irritation and scaling of skin (Dermatitis).

12. ECOLOGICAL INFORMATION**Ecotoxicity**

LC50 - Dphania: 33 mg/l (48h)

Persistence and degradability

Readily biodegradable.

Bio - accumulative potential

Not available.

13. DISPOSAL CONSIDERATION

Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.

14. TRANSPORT INFORMATION

UN Number

1169

UN proper shipping name

Extracts, aromatic, liquid

Transport hazard class

3

Packing group

III

US DOT Shipping Description (Land)

1169

Proper shipping name

Extracts, aromatic, liquid

Class

3

Packaging group

III

IMO-IMDG Shipping Description (Sea)

1169

Proper shipping name

Extracts, aromatic, liquid

Class

3

Packaging group

III

IATA Shipping Description (Air)

1169

Proper shipping name

Extracts, aromatic, liquid

Class

3

Packaging group

III

15. REGULATORY INFORMATION

GHS Hazard Statements

Please refer to section 2.

GHS Precautionary Statements

Please refer to section 2.

16. OTHER INFORMATION

Revision date : February 28, 2018

Disclaimer & Caution:

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