

**BERGAMOT OIL**

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**1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**Identification of the product** : Citrus bergamia, Risso et Poiteau  
100%PURE&NATURAL

**CAS number** : 8007-75-8

**EC number** : 289-612-9

**FEMA** : 2153

**Use** : Perfumery, flavour and food grade application

**Company identification** : Citroflor s.r.l.  
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**Name and function of the responsible person** : qualitycontrol@citroflor.com

**Emergency phone nr** : +39 0965 21919

**2 HAZARDS IDENTIFICATION**

**Risk Phrases** : Harmful : may cause lung damage if swallowed.  
Irritating to skin.  
May cause sensitization by skin contact.

**Hazards identification** : **Flammable liquid and vapour.**  
**May be fatal if swallowed and enters airways.**  
**Causes skin irritation.**  
**May cause an allergic skin reaction.**  
**Very toxic to aquatic life with long lasting effects.**

**Adverse human health effects** : There are potential chronic health effects to consider.

**Dangerous product** : May form flammable/explosive vapour-air mixture.

**Environmental hazard** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Primary route of exposure** : Skin contact.

**Symptoms relating to use**

- Inhalation : Cough. Shortness of breath. Breathing difficulties. Headache.
- Skin contact : Redness, pain. May cause sensitization by skin contact.
- Eye contact : Severe eye irritant. Redness, pain. Burning sensation. Blurred vision. Tears.
- Ingestion : Abdominal pain, nausea. Swallowing a small quantity of this material presents some health hazard. Must not come into contact with food or be consumed.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance / Preparation** : 100%PURE&NATURAL

**Product's formula (INCI)** : MENTHADIENE, LINALYL ACETATE, LINALOOL, b-Pinene, alpha-Pinene, PARFUM

**Components** : This product is hazardous.

Substance name	Contents	CAS No	EC No	Annex No	Classification
(R)-p-mentha-1,8-diene	: Between 30 and 45 %	5989-27-5	227-813-5	601-029-00-7	R10 Xi; R38 R43 N; R50-53
Linalyl acetate	: Between 22 and 36 %	115-95-7	204-116-4	----	
Linalool	: Between 3 and 16 %	78-70-6	201-134-4	.	
b-Pinene	: Between 5.5 and 9.5 %	127-91-3	204-872-5	----	R10 Xn; R65 R43 N; R50-53

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**3 COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

Substance name	Contents	CAS No	EC No	Annex No	Classification
alpha-Pinene	: Between 0.7 and 1.8 %	80-56-8	201-291-9	----	R10 Xn; R65 R43 N; R50-53

**4 FIRST AID MEASURES**

**First aid measures**

- **Inhalation** : Assure fresh air breathing. If breathing is difficult, give oxygen. Allow the victim to rest. Obtain medical attention.
- **Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if ill effect or irritation develops.
- **Eye contact** : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- **Ingestion** : Rinse mouth. Do not induce vomiting. If swallowed seek medical advice immediately and show this container or label.

**5 FIRE-FIGHTING MEASURES**

- Flammable class** : This product is flammable.
- Specific hazards** : May form flammable vapour-air mixture.
- Prevention** : Keep away from sources of ignition. No smoking.
- Extinguishing media** : Shut off source of fuel if possible, and allow fire to burn out. Dry chemical. Carbon dioxide. Foam.
- Surrounding fires** : Use water spray or fog for cooling exposed containers.
- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

**6 ACCIDENTAL RELEASE MEASURES**

- Personal precautions** : No smoking. Keep public away from danger area. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.
- Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
- Clean up methods** : Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers. Dilute residue with water. Recover the cleaning water for later disposal.

**7 HANDLING AND STORAGE**

- General** : Keep away from sources of ignition - No smoking. Store and handle as though always a serious potential fire/explosion and health hazard exists.
- Precautions in handling and storage** : Good ventilation of the workplace required.
- Technical protective measures** : Proper grounding procedures to avoid static electricity should be followed.
- Storage** : Keep in fireproof place. Store in tightly closed, properly ventilated containers away from heat, sparks, open flame.
- Handling** : Do not breathe vapours. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

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**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Personal protection**



- **Respiratory protection** : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
- **Hand protection** : Gloves.
- **Skin protection** : No special clothing/skin protection equipment is recommended under normal conditions of use.
- **Eye protection** : Goggles.
- **Ingestion** : When using, do not eat, drink or smoke.
- Industrial hygiene** : Provide good ventilation in process area to prevent formation of vapour.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

- Physical state at 20 °C** : Oily liquid.
- Colour** : Green to yellow green or yellowish brown
- Odour** : Characteristic of outer part of fresh bergamot peel
- Final boiling point [°C]** : 180
- Refraction index (°)** : 1.4650 - 1.4700
- OPTICAL ROTATION AT 20°C** : +15° - +32°
- Relative density, liquid (water=1)** : 0.8760 - 0.8830
- Flash point [°C]** : 58

**10 STABILITY AND REACTIVITY**

- Hazardous decomposition products** : According to process conditions, hazardous decomposition products may be generated.
- Hazardous reactions** : Reacts violently with : Oxidizing agent. Halogens. May release flammable gases.
- Hazardous properties** : In use, may form flammable/explosive vapour-air mixture.
- Conditions to avoid** : Open flame. Sparks. Overheating.

**11 TOXICOLOGICAL INFORMATION**

- Toxicity information** : Irritating to eyes and skin.  
May cause sensitization by skin contact.  
Harmful : may cause lung damage if swallowed.
- Other** : See Heading 2.

**12 ECOLOGICAL INFORMATION**

- Ecological effects information** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**13 DISPOSAL CONSIDERATIONS**

- General** : Avoid release to the environment.  
Dispose of this material and its container at hazardous or special waste collection point.  
Dispose in a safe manner in accordance with local/national regulations.

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### 14 TRANSPORT INFORMATION

#### General information

**Proper shipping name** : UN1169 ESTRATTI AROMATICI LIQUIDI, 3 (9E), III, (D/E)  
**UN No.** : 1169  
**H.I. nr** : 30

#### Land transport

**- ADR Class** : 3  
**- ADR Packing group** : III  
E

#### Labelling ADR



: 3  
9E

**DOT (USA)** : Special provision : 640E  
Group : III  
Class : 3

#### Sea transport

**- IMO-IMDG code** : Class 3  
**- IMO Packing group** : III  
**- EMS-Nr** : F-E S-D  
**- IMDG-Marine pollution** : YES

#### Air transport

**Proper shipping name** : EXTRACTS, AROMATIC, LIQUID  
**- ICAO/IATA** : Packaging instructions cargo : 310  
Packaging instructions passenger: 309  
**- IATA - Class or division** : 3  
**- IATA Packing group** : III  
**Personal precautions** : The driver shall not attempt to deal with any fire of the load.  
**In case of spillage and/or leakage** : Clean up even minor leaks or spills if possible without unnecessary risk.  
**Emergency action in case of accident** : Mark roads and warns other road users.  
**Additional information** : None.

### 15 REGULATORY INFORMATION

#### EUROPEAN COMMUNITIES

*Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006.*

*Directive 2006/121/EC of the European Parliament and of the Council of 18 December 2006.*

**EC Classification** : R10  
Xn; R65  
Xi; R38  
R43  
N; R50-53

#### EC Labelling

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**15 REGULATORY INFORMATION (continued)**

**Symbol(s)**



**R Phrase(s)**

: Xn : Harmful  
N : Dangerous for the environment  
: R10 : Flammable.  
R38 : Irritating to skin.  
R43 : May cause sensitization by skin contact.  
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65 : Harmful : may cause lung damage if swallowed.

**S Phrase(s)**

: S24 : Avoid contact with skin.  
S37 : Wear suitable gloves.  
S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.  
S62 : If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.

**Contains**

: (R)-p-mentha-1,8-diene : Between 30 and 45%  
Linalyl acetate : Between 22 and 36%  
Linalool : Between 3 and 16%  
b-Pinene : Between 5.5 and 9.5%  
alpha-Pinene : Between 0.7 and 1.8%

**EEC Composition of detergents**

: Perfumes

**15 REGULATORY INFORMATION**

**Globally Harmonized System of Classification and Labelling of Chemicals (GHS)**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Hazard Class and Category Code**

- **Physical hazards** : Flammable liquids - Category 3 - Warning (CLP : Flam. Liq. 3)
- **Health hazards** : Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2)  
Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1)  
Aspiration hazard - Category 1 - Danger (CLP : Asp. Tox. 1)
- **Environmental hazards** : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1)  
Hazardous to the aquatic environment - Chronic hazard - Category 1 - Warning (CLP : Aquatic Chronic 1)

**Labelling**

• **Hazard pictograms**



• **Signal words**

: Danger

• **Hazard statements**

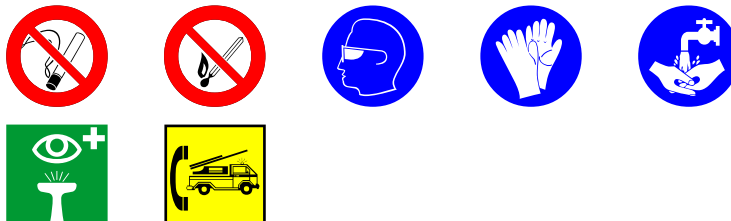
: Flammable liquid and vapour.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Very toxic to aquatic life with long lasting effects.

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**15 REGULATORY INFORMATION (continued)**

• Pictograms (Precautionary statements)



• Precautionary statements

- **Prevention** : Wear protective gloves, protective clothing, eye protection, face protection. Keep away from heat, sparks, open flames or hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting, ..., equipment. Avoid breathing dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.
- **Response** : IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower. IF SWALLOWED : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Specific treatment. If skin irritation or rash occurs : Get medical advice. Use for extinction : All extinguishing media can be used. Collect spillage.
- **Storage** : Keep cool. Store locked up.
- **Disposal considerations** : Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**16 OTHER INFORMATION**

- Recommended uses and restrictions** : Specifications and technical informations on the product may be obtained by your dealer.
- List of relevant R phrases (heading 3)** : R10 : Flammable.  
R38 : Irritating to skin.  
R43 : May cause sensitization by skin contact.  
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65 : Harmful : may cause lung damage if swallowed.
- List of relevant symbols (heading 3)** : N : Dangerous for the environment  
Xi : Irritant  
Xn : Harmful
- Further information** : None.
- Print date** : 6 / 9 / 2010

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

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