

## **MATERIAL SAFETY DATA SHEET**

### **BERGAMOT OIL**

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| <b>Section 1: Identification of the substance/mixture and of the<br/>company/undertaking</b> |
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#### **1.1. Product identifier**

Product name: BERGAMOT OIL ITALY

REACH registered name: BERGAMOT, EXT.

CAS number: 89957-91-5

EINECS number: 289-612-9

Index number: 2153

INCI name: Citrus bergamia

#### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of substance / mixture: E.U Com. Code: 3301 19 20 FDA: 182.20 INCI  
Name: Citrus bergamia.

#### **1.3. Details of the supplier of the safety data sheet**

G. Baldwin & Co.

173 Walworth Road,

LONDON, ENGLAND. SE17 1RW.

Telephone: +44 (0) 207 703 5550 Fax: +44 (0)207 252 6264

E-mail: [info@baldwins.co.uk](mailto:info@baldwins.co.uk)

Web: [www.baldwins.co.uk](http://www.baldwins.co.uk)

#### **1.4. Emergency telephone number**

Emergency tel: +44 (0) 207 703 5550

(office hours only)

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| <b>Section 2: Hazards identification</b> |
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#### **2.1. Classification of the substance or mixture**

Classification under CLP:

Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Flam. Liq. 3: H226; Skin  
Corr. 1A: H314;

Skin Sens. 1: H317

Most important adverse effects:

Flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

#### **2.2. Label elements**

Hazard statements:

H226: Flammable liquid and vapour.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Signal words: Danger

Hazard pictograms:

GHS02: Flame

GHS05: Corrosion

GHS07: Exclamation mark

GHS09: Environmental

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+352: IF ON SKIN: Wash with plenty of water/soap.

### **2.3. Other hazards**

Other hazards: Risk of explosion if heated under confinement.

PBT: This product is not identified as a PBT/vPvB substance.

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| <b>Section 3: Composition/information on ingredients</b> |
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### **3.2. Mixtures**

Hazardous ingredients:

## LIMONENE

EINECS CAS PBT / WEL CLP Classification Percent

227-813-5 5989-27-5 Flam.

Liq. 3: H226; Skin Irrit. 2: H315;

Skin Sens. 1: H317; Aquatic Acute 1:

H400; Aquatic Chronic 1: H410; Asp.

Tox. 1: H304

30-50%

## LINALYL ACETATE

204-116-4 115-95-7 Skin

Irrit. 2: H315; Eye Irrit. 2: H319 10-30%

## PINENE ALPHA

201-291-9 80-56-8 Flam.

Liq. 3: H226; Skin Irrit. 2: H315;

Skin Sens. 1B: H317; Asp. Tox. 1:

H304

10-30%

## LINALOOL

201-134-4 78-70-6 Skin

Irrit. 2: H315; Eye Irrit. 2: H319 1-10%

Contains: Essential oil of Citrus bergamia risso, Rutaceae. (distilled)

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| <b>Section 4: First aid measures</b> |
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**4.1. Description of first aid measures**

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

**4.2. Most important symptoms and effects, both acute and delayed**

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

**4.3. Indication of any immediate medical attention and special treatment needed**

Immediate / special treatment: Not applicable.

**Section 5: Fire-fighting measures****5.1. Extinguishing media**

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

## **5.2. Special hazards arising from the substance or mixture**

Exposure hazards: In combustion emits toxic fumes.

## **5.3. Advice for fire-fighters**

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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| <h2><b>Section 6: Accidental release measures</b></h2> |
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### **6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions:

Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

### **6.2. Environmental precautions**

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

### **6.3. Methods and material for containment and cleaning up**

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### **6.4. Reference to other sections**

Reference to other sections: Refer to section 8 of SDS.

## **Section 7: Handling and storage**

### **7.1. Precautions for safe handling**

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.

Do not handle in a confined space. Avoid the formation or spread of mists in the air.

### **7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

Suitable packaging: 6 months from date of despatch if kept under optimum conditions.

### **7.3. Specific end use(s)**

Specific end use(s): No data available.

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| <b>Section 8: Exposure controls/personal protection</b> |
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### **8.1. Control parameters**

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

### **8.2. Exposure controls**

Engineering measures: Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

## **Section 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

State: Liquid

Colour: Yellow-green

Odour: Citrus

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble

Also soluble in: Ethanol.

Viscosity: Non-viscous

Flash point°C: 58 Part.coeff. n-octanol/water: 1.4590 to 1.4700

Vapour pressure: +20.0 to +30.0 Relative density: 0.870 to 0.890

pH: 5.5

### **9.2. Other information**

Other information: No data available.

## **Section 10: Stability and reactivity**

### **10.1. Reactivity**

Reactivity: Stable under recommended transport or storage conditions.



### **10.2. Chemical stability**

Chemical stability: Stable under normal conditions.

### **10.3. Possibility of hazardous reactions**

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

### **10.4. Conditions to avoid**

Conditions to avoid: Heat.

### **10.5. Incompatible materials**

Materials to avoid: Strong oxidising agents. Strong acids.

### **10.6. Hazardous decomposition products**

Haz. decomp. products: In combustion emits toxic fumes.

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| <b>Section II: Toxicological information</b> |
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### **II.1. Information on toxicological effects**

Toxicity values:

| Route | Species | Test | Value | Units |
|-------|---------|------|-------|-------|
|-------|---------|------|-------|-------|

|     |     |                  |       |       |
|-----|-----|------------------|-------|-------|
| ORL | RAT | LD <sub>50</sub> | 11520 | mg/kg |
|-----|-----|------------------|-------|-------|

|     |     |  |     |  |
|-----|-----|--|-----|--|
| SKN | RBT |  | 500 |  |
|-----|-----|--|-----|--|

|  |  |  |        |     |
|--|--|--|--------|-----|
|  |  |  | mg/24H | MLD |
|--|--|--|--------|-----|

Hazardous ingredients:

## LIMONENE

IVN MUS LD<sub>50</sub> 1010 µl/kg

ORL MUS LD<sub>50</sub> 5550 µl/kg

ORL RAT LD<sub>50</sub> 5300 mg/kg

Relevant hazards for substance:

### Hazard Route Basis

Skin corrosion/irritation DRM Hazardous: calculated

Serious eye damage/irritation OPT Hazardous: calculated

Respiratory/skin sensitisation DRM Hazardous: calculated

### Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

## Section 12: Ecological information

### 12.1. Toxicity

Ecotoxicity values: No data available.

### 12.2. Persistence and degradability

Persistence and degradability: Not biodegradable.

### **12.3. Bioaccumulative potential**

Bioaccumulative potential: Bioaccumulation potential.

### **12.4. Mobility in soil**

Mobility: Readily absorbed into soil.

### **12.5. Results of PBT and vPvB assessment**

PBT identification: This product is not identified as a PBT/vPvB substance.

### **12.6. Other adverse effects**

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

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| <b>Section 13: Disposal considerations</b> |
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### **13.1. Waste treatment methods**

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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| <b>Section 14: Transport information</b> |
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### **14.1. UN number**

UN number: UN1169

### **14.2. UN proper shipping name**

Shipping name: Extracts, Aromatic, Liquid

**14.3. Transport hazard class(es)**

Transport class: 3

**14.4. Packing group**

**14.5. Environmental hazards**

Environmentally hazardous: Yes

Marine pollutant: Yes

**14.6. Special precautions for user**

Special precautions: No special precautions.

Tunnel code: D/E

Transport category: I

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| <b>Section 15: Regulatory information</b> |
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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.2. Chemical Safety Assessment**

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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| <b>Section 16: Other information</b> |
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Recommended for professional use only as an ingredient in perfumes and food flavours.

Recommended to check IFRA guidelines for use in perfumes.

Restricted by IFRA for use in perfumes (phototoxic). Maximum dose 2% (data from

1994).

Phrases used in s.2 and s.3:

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



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