



# The Soap Kitchen

Unit 8 Caddsdow Industrial Park, Clovelly Road,  
Bideford, Devon, EX39 3DX  
Tel: 01237 420872 (+44 (0)1237 420872)  
Email: info@thesoapkitchen.co.uk

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

PRODUCT NAME: Bergamot oil

Product code: 30239

SUPPLIER: The Soap Kitchen

### 2. COMPOSITION / INFORMATION ON INGREDIENTS.

DEFINITION/BOTANICAL ORIGIN: Obtained by pressing the peels of the unripe fruits of *Citrus aurantium* L. subsp. *bergamia* (Risso et Poit), followed by rectification, to produce an oil that is free from furanocoumarins.

H-No: 3301.11	CAS No: 8007-75-8	Status: natural	Country of origin: Italy
CoE No: 137	FEMA: 2153	Additives: none	
FDA: § 182.20	IFRA: see section 16	Application: Aromatherapy, skin care etc	
RIFM:	EINECS: 289-612-9	RTECS:	
INCI name: Citrus bergamia		FCCIV: official	

### 3. HAZARDS IDENTIFICATION:

R10 Flammable

Xi Irritant

### 4. FIRST-AID MEASURES:

INHALATION:	Remove from exposure site to fresh air. Keep at rest. Obtain medical attention.
EYE CONTACT:	Rinse immediately with plenty of water for at least 15 mins. Contact a doctor if symptoms persist.
SKIN CONTACT:	Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. If irritation persists, seek medical advice.
INGESTION:	Rinse mouth out with water. Seek medical advice immediately.
OTHER:	When assessing action take Risk & Safety Phrases into account (Section 15)

### 5. FIRE FIGHTING MEASURES.

EXTINGUISHING MEDIA RECOMMENDED:	Use CO <sub>2</sub> , Dry Powder or Foam type Extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.
SPECIAL MEASURES:	Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.
EXTINGUISHING PROCEDURES:	Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

### 6. ACCIDENTAL RELEASE MEASURES.

PERSONAL PRECAUTIONS:	Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.
ENVIRONMENT PRECAUTIONS:	Keep away from drains, soils, surface & groundwaters.
CLEANING UP METHODS FOR SPILLAGES:	Remove all potential ignition sources. Contain spilled material. Cover with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Observe state, federal & local disposal regulations.

## 7. HANDLING & STORAGE.

### PRECAUTIONS IN HANDLING:

Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.

### STORAGE CONDITIONS:

Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.

### FIRE PROTECTION:

Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

### RESPIRATORY PROTECTION:

Avoid breathing product vapour. Apply local ventilation where possible.

### VENTILATION:

Ensure good ventilation of working area.

### HAND PROTECTION:

Avoid all skin contact. Use chemically resistant gloves if required.

### EYE PROTECTION:

Use safety glasses.

### WORK/HYGIENE PRACTICES:

Wash hands with soap & water after handling.

## 9. PHYSICAL & CHEMICAL PROPERTIES.

### COLOUR:

Green to greenish yellow, sometimes with a deposit

### APPEARANCE:

Mobile liquid

### ODOUR:

Pleasant fresh fruity.

### FLASH POINT °C:

52 - 59

### SPECIFIC GRAVITY @ 20°C:

0.870 to 0.888

### REFRACTIVE INDEX @ 20°C:

1.460 to 1.469

### SOLUBILITY IN 85% ETHANOL @ 20°C:

1 +1

### ACID VALUE:

2.0 max.

### SOLUBILITY IN VEGETABLE OILS:

Soluble

### SOLUBILITY IN WATER:

Insoluble

### TYPICAL ANALYSIS BY GC/MS:

$\alpha$ -THUJENE,  $\alpha$ -PINENE,  $\beta$ -PINENE, SABINENE, MYRCENE, LIMONENE,  $\beta$  PHELLANDRENE, p-CYME, OCTANAL,  $\gamma$ -TERPINENE, TERPINOLENE, LINALOL, DECYL ACETATE, DECANAL,  $\alpha$ -TERPINEOL, LINALYL ACETATE, NEROL, NERAL, GERANIAL,  $\alpha$ -TERPINYL ACETATE, NERYL ACETATE,  $\beta$ -CARYOPHYLLENE, TRANS- $\alpha$  BERGAMOTENE, GERANYL ACETATE,  $\alpha$ -HUMULENE,  $\beta$ -BISABOLENE, NEROLIDOL, CITROPENE, BERGAPTENE, MERANZIN ISOMERS.

## 10. STABILITY & REACTIVITY.

### REACTIVITY:

It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidising agents.

### DECOMPOSITION:

Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

## 11. TOXICOLOGICAL INFORMATION.

Not a skin sensitizer. Opdyke D.J. (1979) explained the phototoxic effects of Bergamot oil were due to furanocoumarin content (FCT 11,1031). LD<sub>50</sub> orl rat >5g/Kg

## 12. ECOLOGICAL INFORMATION.

### BIODEGRADABILITY:

Data not available

### PRECAUTIONS:

Prevent surface contamination of soil, ground & surface water.

## 13. DISPOSAL CONSIDERATIONS.

Avoid disposing to drainage systems and into the environment. Seek expert advice.

#### 14. TRANSPORT REGULATIONS.

UN 1993: applies  
Road (ADR/RID): Class 3 Item 31c  
AIR (IATA): Class 3 Packing Gp III  
SEA (IMDG): Code page 3142 3036-1, Class 3.3  
CHIP: See section 15

#### 15. REGULATORY INFORMATION. According to Directive 88/379/EEC

HAZARDS: Irritant  
SYMBOLS: Xi  
RISK PHRASES: R10 Flammable liquid  
R36/38 Irritating to eyes and skin  
SAFETY PHRASES: S24/25 Avoid contact with eyes and skin  
S16 Keep away from sources of ignition; No Smoking

#### 16. OTHER INFORMATION.

Cosmetics Directive 7<sup>th</sup> Amendment: Restrictions may apply. A source of Citral, Limonene and Linalool, listed as sensitisers. Check maximum usage levels for skin care products.

#### PACKAGING:

Type	Suitability
Glass	Yes
Lacquer lined steel/tin	Yes
Aluminium	Yes
HPPE	No
F/HDPE	Yes
Other plastic	No

#### SHELF LIFE

When stored within advised conditions, re-test after 12 months then every 3 months up to a maximum shelf life of 36 months.

#### Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.

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