

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

PRODUCT NAME: Bergamot oil

Product code: 30239

SUPPLIER: The Soap Kitchen, 11a South Street, Torrington, Devon, EX38 8AA

Emergency Tel No: 01805 622944 Emergency Contact: Mr. Richard Phillips.

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 CO₂, 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:	α -THUJENE, α -PINENE, β -PINENE, SABINENE, MYRCENE, LIMONENE, β PHELLANDRENE, p-CYMENE, OCTANAL, γ -TERPINENE, TERPINOLENE, LINALOL, DECYL ACETATE, DECANAL, α -TERPINEOL, LINALYL ACETATE, NEROL, NERAL, GERANIAL, α -TERPINYL ACETATE, NERYL ACETATE, β -CARYOPHYLLENE, TRANS- α BERGAMOTENE, GERANYL ACETATE, α -HUMULENE, β -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 sensitiser. Opdyke D.J. (1979) explained the phototoxic effects of Bergamot oil were due to furanocoumarin content (FCT 11,1031). LD₅₀ 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 7th 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.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.