

Bergamot

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MATERIAL SAFETY DATA SHEET
ACCORDING TO EC LEGISLATION 91/155/E EC
Date created: August 2002

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1. Identification:

Commercial name: Bergamot essential oil.
Botanical Nomenclature: Citrus bergamia.
INCI name: Citrus Aurantium var. bergamia.
CAS number: 8007-75-8
EINECS CAS number: 89957-91-5.
EEC Number: 289-612-9.

2. Composition:

Main components: Linalyl acetate, linalool, limonene, β -pinene, g-terpinene.
Additives (e.g. carriers, preservatives, antioxidants): NIL

3. Potential Health Hazards:

Inhalation: None identified.
Skin: Concentrated liquid and vapours irritating to skin by prolonged exposure.
Eyes: Irritating to eyes with possible damage.
Ingestion: Harmful if swallowed.

4. First aid:

Inhalation: If discomfort is felt, remove person to a well ventilated area with plenty of fresh air.
Skin: Remove contaminated clothing. Wash affected area with plenty of soap and water.
Eyes: Flush immediately with plenty of cool water for 10 to 20 minutes. Seek medical advice from a Medical Doctor.
Ingestion: Seek immediate medical care.

5. In case of fire:

Extinguishing Media: Foam, Carbon dioxide.
Do not use: Water.
Special precautions: wear breathing apparatus as toxic vapours may be released during fire.

6. Spill and Leak Procedure:

Individual precautions: Eliminate sources of ignition. Keep area well ventilated and isolate the spill.
Environmental protection: Prevent the liquid from entering the drains and sewers.
Cleaning methods: Soak up the spill using inert absorbents. For large spills use pumps.

7. Handling and storage:

Store in a cool, dry and dark place in suitable containers (aluminium cans or lacquer lined steel drums).
Handle in a well ventilated area.
Keep away from sources of heat and ignition.

8. Personal Protection / Exposure control:

Respiratory protection: wear breathing apparatus when working in an area of high vapour concentration.

Skin protection: Use protective gloves. wear protective clothing when possibility exists of contact.

Eye protection: Goggles should be worn.

General precautions: Use good industrial hygiene practise.

Bergamot

Clear, yellowish

9. Physiochemical properties:

Appearance:

Fresh, fruity, lemony

Odour:

pH:

Neutral

Not available

Boiling point:

+53°C ? 57°C

Flash point:

Autoignition Temperature:

Not available

Not available

Explosion Limits:

Vapour pressure (25°C):

Not available

>1 (air=1)

Vapour Density:

Specific Gravity (20°C):

0.87 ? 0.88

Optical Rotation (20°C):

+8° - 24°

Refractive Index (20°C):

1.46 ? 1.47

Solubility in water (20°):

Negligible

Partition Coefficient log P o/w:

Not available

Evaporation rate:

<1 (Butyl Acetate=1)

10. Stability and Reactivity:

Chemical Stability: Stable.

Conditions to avoid: Normally stable. Not reactive with water.

Hazardous Decomposition Products: Not available.

11. Sensitisers

Citral 0.7%,Limonene 45%, Linalool 15%, total 60.7%
Bergamot

20 g/kg in rabbits.

12. Toxicological Information:

According to RIFM- Monograph:

Acute Toxicity: Oral LD50: 10 g/kg in rats.

DermalLD50:

Irritation:

Tested without irritation at 4%.

Sensitisation:

Tested without sensitisation at 4%.

Phototoxicity:

Use should be limited to 20% as the expressed oil causes phototoxic reaction in sunlight.

13. Ecotoxicological information:

Fish Toxicity: LCO/EC50: Not available.

Bacteriotocity: ECO/EC50: Not available.

14. Disposal Method:

Check Federal, State and Local Regulations.

15. Transport Information:

UN Number 1993: Proper shipping name: Flammable Liquid N.O.S.

Hazard Class: 3.3 Packing group: III

Transport Safety: Air (ATA/ICAO)

2/PAX309/CA310/III

Sea (IMDG-Code): 3.3/III

Rail (RID): 3.31c

Road (ADR): 3.31c

16. Regulatory Information

The British Essential Oil Association Chip Regulations 2002

Hazard Symbols: Xn

Risk Phrases:

R10, 65

H/C %: 55

Safety Phrases: S62

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FOR AND ON BEHALF OF SHIRLEY PRICE AROMATHERAPY LTD:
P.I Brealey..... (MANAGING DIRECTOR)
DATE: