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MATERIAL SAFETY DATA SHEET

Product Name: **Bergamot Oil**

Botanical Name: **Citrus Bergamia**

Family: Bergamia

Country of Origin: **Ivory Coast**

Section 1. Composition/Information of Ingredients

Method of Extraction: Obtained by pressing the peels of the unripe fruits of Citrus aurantium L. subsp. Bergamia (Risso et Poit).

CAS No: 8007-75-8/89957-91-5

FEMA: 2153

H-No: 3301.11

CoE: 137

FDA: 182.20

RIFM: monograph

IFRA: restricted

EINECS: 289-612-9

Status: natural

FFCIV: official

Section 2. Hazards Identification

Concentrated product. Do not ingest. Observe good housekeeping procedures.

Section 3. First Aid Measures

INHALATION: Remove 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 and 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).

Section 4. Fire Fighting Measures

EXTINGUISHING MEDIA RECOMMENDED: Use CO₂, Dry Powder or Foam type of extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.

SPECIAL MEASURES: Avoid vapor inhalation. Keep away from sources of ignition. Do not

smoke. Wear positive pressure self-contained breathing apparatus & protective clothing. Avoid strong oxidizing agents.

EXTINGUISHING PROCEDURES: Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

Section 6. Accidental Release Measures

PERSONAL PRECAUTIONS: Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (safety glasses, water-proof boots, suitable protective clothing) in case of major spillages.

ENVIRONMENT PRECAUTIONS: Keep away from drains, soils, surface & groundwaters.

CLEANING UP METHODS FOR SPILLAGE: Remove all potential ignition sources. Contain spilled material. Cover with an inert or non-combustible inorganic absorbent material, or sweep up and remove to an approved disposal container. Observe state, federal & local disposal regulations.

Section 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 and 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.

Section 8. Exposure Controls/Personal Protection

RESPIRATORY PROTECTION: Avoid breathing product vapor. 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.

Section 9. Physical and Chemical Properties

COLOUR: Brownish-yellow to green liquid

APPEARANCE: Mobile liquid

ODOUR: Pleasant fresh fruity.

FLAVOUR:

FLASH-POINT °C: 58

RELATIVE DENSITY @ 15°C: 0.8700 to 0.8880

OPTICAL ROTATION @ 20°C: +8° to +33°

REFRACTIVE INDEX @ 20°C: 1.4620 to 1.4680

SOLUBILITY IN 85% ETHANOL @ 20°C: 1+1

SOLUBILITY IN VEGETABLE OILS: Soluble

SOLUBILITY IN WATER: Insoluble

ADDITIONAL DATA:

TYPICAL ANALYSIS BY GC/MS: α -thujene, α -pinene, β -pinene, sabinene, myrcene, limonene, β -phelladrene, P-cymene, otonal, 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.

Section 10. Stability & Reactivity

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

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

Section 11. Toxicological Information

Not a skin sensitiser. Opdyke D.J. (1979) explained the photo toxic effects of Bergamot oil were due to furanocoumarin content (FCT 11, 1031). LD₅₀ orl rat >5g/Kg

Section 12. Ecological Information

BIODEGRADABILITY: Data not available

PRECAUTIONS: Prevent surface contamination of soil, ground & surface water.

Section 13. Disposal Considerations

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

Section 14. Transport Regulations

Flammable liquid N.O.S. UN No 1993

Road (ADR/RID): Class 3 Item 31c

Air (IATA): Class 3 Packing GP III UN 1993

Sea (IMDG): Code page 3142 3036-1 Class 3.3

UN 1993:

Section 15. Regulatory Information

ACCORDING TO DIRECTIVE 88/379/EEC

HAZARDS:

SYMBOLS:

RISK PHRASES: R10 Flammable liquid

SAFETY PHRASES:

Section 16. Other Information

IFRA June 1992: For application to the skin exposed to sunshine, furanocoumarin containing Bergamot oils, are limited to 0.4% in the final product, except for bath preparations, soaps * other products which are washed off the skin.

Section 17. Packaging

Type	Suitability
Glass	Yes
Lacquer Lined steel/tin	Yes

Type	Suitability
Aluminum	Yes
HPPE	No
F/HDPE	Yes
Other plastic	No

Section 18. Shelf Life

Min. 12 months when stored within advised conditions.

Section 19. Requirements

In-line with general product specification. Always satisfy suitability for specific application.
Retest after 6 months.

Section 20. Disclaimer

The information contained herein is based on data considered accurate and reliable. However, the data is provided without any warranty, expressed or implied regarding its correctness or accuracy. It is the users responsibility both to determine safe conditions for use of this product, and to assume liability for loss, injury, damage, or expense resulting from the improper use of this product.