

Nutmeg

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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: Nutmeg essential oil.
Botanical Nomenclature: Myristica fragrans.
INCI name: Myristica fragrans.
CAS number: 8008-45-5
EINECS CAS number: 84082-68-8
EEC Number: 282-013-3

2. Composition:

Main components: D-thujene + D-pinene, sabinene, β -pinene, terpinen-4-ol,
myristicin, D-
terpinene, 1,8 Cineole + β -phellandrene, myrcene, safrole.
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.

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Eye protection: Goggles should be worn.

General precautions: Use good industrial hygiene practise.

Yellow liquid

9. Physiochemical properties:

Appearance:

Fruity, aromatic, warm, spicy

Odour:

pH:

Neutral

Not available

Boiling point:

38°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):

0.885 to 0.915

Optical Rotation (20°C):

+10° to +25°

Refractive Index (20°C):

1.475 to 1.488

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.

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11. Sensitisers:

Eugenol 0.6%, Geraniol 0.4%, Isoeugenol 1%, Citronellol 0.2%, Limonene 7%,
Linalool
0.4%, total 9.6%

12. Toxicological Information:

According to RIFM- Monograph:

Acute Toxicity: Oral LD50: 2.62 g/kg in rats.
Dermal LD50:

10 g/kg in rabbits.

Irritation:

Tested without irritation at 2%.

Sensitisation:

Tested without sensitisation at 2%.

Phototoxicity:

No phototoxic reaction reported.

13. Ecotoxicological information:

Fish Toxicity: LCO/EC50: Not available.

Bacteriotoxicity: 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

R10, 65

Hazard Symbols: Xn

Risk Phrases:

85

H/C %:

Safety Phrases:

S62

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DETERMINE SAFE CONDITIONS FOR USE AND TO ASSUME LIABILITY FOR LOSS, INJURY,
DAMAGE OR
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FOR AND ON BEHALF OF SHIRLEY PRICE AROMATHERAPY LTD:
P.I Brealey..... (MANAGING DIRECTOR)
DATE: