

Mandarin

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

Date revised: June 2005

1. Identification:

Commercial name: Mandarin essential oil.
Botanical Nomenclature: Citrus nobilis
INCI name: Citrus nobilis.
CAS number: 84929-38-4.
EINECS/ELINCS number: 284-521-0

2. Composition:

Main components: Limonene, ? -terpinene, ? -pinene, ? -pinene, Myrcene

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.

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9. Physiochemical properties:

Appearance:	Yellow liquid
Odour:	Herbaceous, warm, sharp typical
pH:	Neutral
Boiling point:	Not available
Flash point:	52°C
Autoignition Temperature:	Not available
Explosion Limits:	Not available
Vapour pressure (25°C):	Not available
Vapour Density:	>1 (air=1)
Specific Gravity (25°C):	0.890 to 0.906
Optical Rotation (25°C):	+4° to +24°
Refractive Index (25°C):	1.4700 to 1.4750
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:

Limonene 75%, Linalool 0.3%, total 75.3%

12. Toxicological Information:

According to RIFM- Monograph:

Acute Toxicity: Oral LD50: 2.2 g/kg in rats.
Dermal LD50: 5 g/kg in rabbits.
Irritation: Tested without irritation at 6%.
Sensitisation: Tested without sensitisation at 6%.
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:

Non-hazardous material transport in suitable containers

16. Regulatory Information

The British Essential Oil Association Chip Regulations 2002

Hazard Symbols: Xn
Risk Phrases: R10,65
H/C %: 80
Safety Phrases: S62

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