

Phoenix Natural Products Ltd. Unit A4 Bridge Rd Ind. Estate, Bridge Rd, Southall, Middx, UB2
4AB, UK. Tel: 08452301982

MATERIAL SAFETY DATA SHEET
ACCORDING TO EC LEGISLATION 91/155/E EC

Date created: May 2004-05-17

Date revised: March 2006

1. Identification:

Commercial name: *Sandalwood Indian essential oil.*

Botanical Nomenclature: *Santalum album.*

INCI name: *Santalum album.*

CAS number: 8006-87-9

EINECS CAS number: 84787-72-4

EEC Number: 284-111-1

2. Composition:

Main components: *cis- α -santalol, cis- β -santalol, cis- ϵ - β -santalol, trans- β -santalol, cis-lanceol, β -santalene, α -santalene, ϵ - β -santalene.*

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.*

9. Physiochemical properties:

Appearance:	<i>Slightly viscous pale yellow oil</i>
Odour:	<i>Warm, faint woody balsamic notes, slightly urinous</i>
pH:	<i>Neutral</i>
Boiling point:	<i>Not available</i>
Flash point:	<i>Greater than 100°C</i>
Autoignition Temperature:	<i>Not available</i>
Explosion Limits:	<i>Not available</i>
Vapour pressure (25°C):	<i>Not available</i>
Vapour Density:	<i>>1 (air=1)</i>
Specific Gravity (20°C):	<i>0.971 – 0.983</i>
Optical Rotation (20°C):	<i>-15.58 to -20</i>
Refractive Index (20°C):	<i>1.505 – 1.510</i>
Solubility in water (20°):	<i>Negligible</i>
Partition Coefficient log P o/w:	<i>Not available</i>
Evaporation rate:	<i><1 (Butyl Acetate=1)</i>

10. Stability and Reactivity:

Chemical Stability: *Stable.*
Conditions to avoid: *Normally stable. Not reactive with water.*
Hazardous Decomposition Products: *Not available.*

11. Toxicological Information:

According to RIFM- Monograph:
Acute Toxicity: *Oral LD₅₀: 5 g/kg in rats.*
 Dermal LD₅₀: 5 g/kg in rabbits.
Irritation: *Tested without irritation at 10%.*
Sensitisation: *Tested without sensitisation at 10%.*
Phototoxicity: *No phototoxic reaction reported.*

12. Ecotoxicological information:

Fish Toxicity: LCO/EC₅₀: *Not available.*
Bacteriotocity: ECO/EC₅₀: *Not available.*

13. Disposal Method:

Check Federal, State and Local Regulations.

14. Transport Information:

Non-hazardous material transport in suitable containers.

15. Regulatory Information

The British Essential Oil Association
Chip Regulations – 2002

Hazard Symbol: None
Risk Phrase: None
Safety Phrase: None

DISCLAIMER: THE INFORMATION CONTAINED IN THIS MSDS IS OBTAINED FROM CURRENT AND RELIABLE SOURCES. HOWEVER, THE DATA IS PROVIDED WITHOUT WARRANTY, EXPRESSES OR IMPLIED, REGARDING ITS CORRECTNESS OR ACCURACY. IT IS THE USER'S RESPONSIBILITY TO DETERMINE SAFE CONDITIONS FOR USE AND TO ASSUME LIABILITY FOR LOSS, INJURY, DAMAGE OR EXPENSE RESULTING FROM IMPROPER USE OF THIS PRODUCT.

FOR AND ON BEHALF OF PHOENIX NATURAL PRODUCTS:

J.S. CHANA..... (MANAGING DIRECTOR). DATE.....