

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

Date created: May 2004

Date revised: June 2005

1. Identification:

Commercial name: *Chamomile Maroc Essential Oil*

Botanical Nomenclature: *Ormenis multicaulis*

INCI name: *Ormenis multicaulis*

CAS number: 8015-92-7

EINECS/ELINCS number: 84082-6-0

EEC No: 283-467-5

2. Composition:

Main components: *α-pinene, limonene, t-4-ol*

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>Clear to pale brown/yellow mobile liquid</i> |
| Odour: | <i>Fresh, herbaceous, floral, cool, metallic</i> |
| pH: | <i>Neutral</i> |
| Boiling point: | <i>Not available</i> |
| Flash point: | <i>45 °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>0.9046 g/ml</i> |
| Optical Rotation (20°C): | <i>1.466</i> |
| Refractive Index (20°C): | <i>+12.35</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. Sensitisers:

Limonene 3.1%, Linalool 1.4%, Geraniol 1.2%, total 5.7%

12. Toxicological Information:

According to RIFM- Monograph:

Acute Toxicity: *Oral LD₅₀: g/kg: 0.5g/kg in rats*
 Dermal LD₅₀: g/kg 0.5g/kg in rabbits

Irritation: *Tested without irritation at 4%*

Sensitisation: *Tested without sensitisation at 4%*

Phototoxicity: *No phototoxic reaction reported*

Sensitising component detected in the Essential Oil: *Limonene 5%: Citronellol 0.7%:
Geraniol 0.7%: Linalool 0.6%*

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:

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 %: 15
Safety Phrases: S62

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FOR AND ON BEHALF OF PHOENIX NATURAL PRODUCTS:

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

DATE:.....