

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

Date created: August 2002

Date revised: June 2005

1. Identification:

Commercial name: *Yarrow*

Botanical Nomenclature: *Achillea millefolium*

INCI name: *Achillea millefolium*

CAS number: 84082 – 83 - 7

EINECS/ELINCS number: 282 – 030 - 6

2. Composition:

Main components: *See attached G.C*

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>Thick blue oil</i> |
| Odour: | <i>Herbaceous, woody, similar to blue chamomile</i> |
| pH: | <i>Neutral</i> |
| Boiling point: | <i>Not available</i> |
| Flash point: | <i>Not available</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 (15°C): | <i>0.900 to 0.936</i> |
| Optical Rotation (20°C): | <i>N/A</i> |
| Refractive Index (20°C): | <i>1.486 to 1.500</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 0.6%, Linalool 5.6%, total 6.2%

12. Toxicological Information:

According to RIFM- Monograph:

Acute Toxicity: *Oral LD₅₀: Not available*
 Dermal LD₅₀: Not available

Irritation: } *No information available*
Sensitisation: }
Phototoxicity: }

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-hardous material transport in suitable containers.

16. Regulatory Information

The British Essential Oil Association Chip Regulations – 2002

| | |
|------------------------|---------|
| <u>Hazard Symbols:</u> | Xn |
| <u>Risk Phrases:</u> | R10, 65 |
| <u>H/C %:</u> | ----- |
| <u>Safety Phrases:</u> | S62 |

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 RESPONSIBILTY 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:.....