

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

Date created: June 1998

Date revised: June 2005

1. Identification:

Commercial name: *Lemon Verbena*

Botanical Nomenclature:

INCI name: *Lippia citriodora*

CAS number: 85116 – 63 - 8

EINECS/ELINCS number: 285 – 515 - 0

2. Composition:

Main components:

Additives (e.g. carriers, preservatives, antioxidants):

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:

Odour:

pH: *Neutral*

Boiling point:

Flash point:

Autoignition Temperature:

Explosion Limits: *Not available*

Vapour pressure (25°C): *Not available*

Vapour Density: *>1 (air=1)*

Specific Gravity (20°C):

Optical Rotation (20°C):

Refractive Index (20°C):

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:

Citral 3%, Geraniol 0.2%, Limonene 73%, Linalool 0.3%, total 76.5%

12. Toxicological Information:

According to RIFM- Monograph:

Acute Toxicity: *Oral LD₅₀: g/kg*

Dermal LD₅₀: g/kg

Irritation:

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. Legislation:

Meets IFRA and RIFM guidelines.

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FOR AND ON BEHALF OF PHOENIX NATURAL PRODUCTS:

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

DATE:.....