

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

Date created: August 2002

Date revised: June 2005

1. Identification:

Commercial name: *Cumin Seed*

Botanical Nomenclature:

INCI name: *Cuminum cyminum*

CAS number: 8014-13-9

EINECS CAS number: 84775-51-9

EEC Number: 283-881-6

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: | Light pale yellow liquid |
| Odour: | Powerful & Characteristic reminiscent of spice itself |
| pH: | <i>Neutral</i> |
| Boiling point: | |
| Flash point: | |
| Autoignition Temperature: | |
| 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): | 0.917 to 0.924 |
| Optical Rotation (20°C): | +4 to +8 |
| Refractive Index (20°C): | 1.500 to 1.504 |
| 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: | <i>Oral LD₅₀: g/kg</i> |
| | <i>Dermal LD₅₀: g/kg</i> |

Irritation:

Sensitisation:

Phototoxicity:

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

| | |
|------------------------|---------|
| <u>Hazard Symbols:</u> | Xn |
| <u>Risk Phrases:</u> | R10, 65 |
| <u>H/C %:</u> | 50 |
| <u>Safety Phrases:</u> | S62 |

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FOR AND ON BEHALF OF PHOENIX NATURAL PRODUCTS:

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

DATE:.....