

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

Date created: August 2002

Date revised: June 2005

1. Identification:

Commercial name: *Celery Seed essential oil.*

Botanical Nomenclature: *Apium graveolens.*

INCI name: *Apium graveolens.*

CAS number: 8015-90-5.

EINECS CAS number: 89997-35-3.

EEC Number: 289-688-4

2. Composition:

Main components: *Limonene, B-selinene, Sedanoic, anhydride, Pentylbenzene, 5-pentacyclohexa-1,3-diene, Myrcene.*

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>Yellow oil</i>
Odour:	<i>Herbaceous, citrusy, aromatic, typical</i>
pH:	<i>Neutral</i>
Boiling point:	<i>Not available</i>
Flash point:	<i>40°</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>0.85 to 0.895</i>
Optical Rotation (20°C):	<i>+60° to +80°</i>
Refractive Index (20°C):	<i>1.478 to 1.498</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 79%, Linalool 0.1%, Total 79.1%

12. 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 4%.*

Sensitisation: *Tested without sensitisation at 4%.*

Phototoxicity: *No phototoxic reaction reported.*

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:

UN Number 1993: Proper shipping name: Flammable Liquid N.O.S.

Hazard Class: 3.3 Packing group: III

Transport Safety: Air (ATA/ICAO)

2/PAX309/CA310/III

Sea (IMDG-Code): 3.3/III

Rail (RID): 3.31c

Road (ADR): 3.31c

16. Regulatory Information

The British Essential Oil Association Chip Regulations – 2002

Hazard Symbols: Xn
Risk Phrases: R10, 65
H/C %: 80
Safety Phrases: 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 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:.....