

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

Date created: August 2002

Date revised: June 2005

**1. Identification:**

Commercial name: *Buchu*  
Botanical Nomenclature: *Barosma betulina*  
INCI name: *Barosma betulina*  
CAS number: 68650-46-4  
EINECS CAS number: .84649-93-4  
EEC Number: 283-474-3

**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**

Limonene 30%, Linalool 0.5%, total 30.5%

### **12. Toxicological Information:**

According to RIFM- Monograph:  
Acute Toxicity: *Oral LD<sub>50</sub>: g/kg*  
*Dermal LD<sub>50</sub>: g/kg*  
Irritation:  
Sensitisation:  
Phototoxicity:

### **13. Ecotoxicological information:**

Fish Toxicity: LCO/EC<sub>50</sub>: *Not available.*  
Bacteriotocity: ECO/EC<sub>50</sub>: *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, 22  
H/C %: -----  
Safety Phrases: -----

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FOR AND ON BEHALF OF PHOENIX NATURAL PRODUCTS:

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

DATE:.....