



GREEN PINE INDUSTRIES

Plot No. 109/110, Shiv Ganga Industrial Estate, Bhagwanpur-Roorkee Uttarakhand – 247667. India

Phone No: +91-1332-312224 Email: info@greenpine.in Website: www.greenpine.in

MATERIAL SAFETY DATA SHEET

BETA PINENE

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	Beta Pinene
SUPPLIER	M/S. Green Pine Industries Plot No. 109 / 110, Shiv Ganga Indl. Estate, Bhagwanpur – Roorkee, Uttarakhand 247 667
Tel. No.	084759 22221
Fax No.	(022) 2405 6700

2. COMPOSITION / INFORMATION IN INGREDIENTS:

Chemical Name: 6,6-dimethyl-2-methylene-(1S)-bicyclo(3.1.1)heptane

Molecular Formula: C₁₀H₁₆

Molecular Weight: 136.23

CAS No.: 18172-67-3

3. HAZARDS IDENTIFICATION:

Flammable, material is extremely destructive to mucous membranes, respiratory tract, eyes and skin. Symptoms of exposure may include burning sensation, coughing, wheezing, shortness of breath, headache, nausea and vomiting.

Potential Health Effects

Eye: Causes severe eye irritation.
Skin: Causes severe skin irritation.
Ingestion: Causes digestive tract irritation.

The toxicological properties of this substance have not been fully investigated.

Inhalation: Causes respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.



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4. FIRST AID MEASURES:

Eyes:	Rinse eyes with a large quantity of water for at least 15 minutes, occasionally lifting the upper and lower eyelids, consult oculist immediately.
Skin:	Remove contaminated clothing and shoes ASAP, wash affected area with plenty of soap and water for at least 15 minutes, consult surgeon immediately.
Ingestion:	Rinse mouth with plenty of milk or water (only if victim is conscious and alert). Get medical aid immediately.
Inhalation:	Remove victim from exposure to fresh air immediately, if not breathing, give artificial respiration; if breathing is difficult, give medical oxygen. Get medical aid immediately.

5. FIRE FIGHTING MEASURES:

Special Fire-Fighting Procedures:	As material emits toxic fumes under fire conditions, wearing a self-contained breathing apparatus in pressure-demand and protecting clothing to prevent contacts from eyes and skin is strongly recommended.
Extinguishing Media:	Carbon dioxide, dry chemical powder or polymer foam. Do not use water, water is unsuitable for use on burning material, but may be used to cool containers exposed to heat.

6. ACCIDENTAL RELEASE MEASURES:

General Information:	Use proper personal protective apparatus as indicated in Section 8.
Spills/Leaks:	Cover with an inert material (e.g. activated carbon absorbent, sand, earth or dirt), then place in suitable and tightly closed containers using non-sparking tools, transport outdoors.

Avoid open flames or sources of ignition (e.g. pilot lights on gas hot water heater). Dispose of in accordance with current laws and regulations.

7. HANDLING & STORAGE:

Handling:	Measures indicated in Section 8 should be taken to prevent contacts from skin and eyes. Vapors may form explosive mixtures with air, provide suitable air extraction ventilation in the work areas. Avoid contact with heat, sparks and flames, smoking should not be permitted in work areas.
Storage:	Keep away from heat, sparks and flames. Store in a tightly closed and suitable container, containers should be stored in a cool and dry place.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Engineering Controls: Use adequate ventilation to keep the vapor concentration in work areas out from explosion limits.

Protective Equipment:

- Eyes: Wear chemical safety goggles if splashing is possible, wash contaminated goggles before reuse.
- Skin: Wear Compatible chemical-resistant gloves and appropriate protective clothing, wash contaminated gloves and clothing before reuse.
- Inhalation: Do not breathe vapors. In confined or poorly ventilated areas, the use of an appropriate respiratory protection may be required.

9. PHYSICAL & CHEMICAL PROPERTIES:

- Appearance: Clear, impurity & suspended matters free.
- Odour: Not available
- Melting Point: -61°C @ 760 mm Hg
- Flash Point: 32°C
- Boiling Point: 164-169°C @ 760 mm Hg
- Specific Gravity (D420): 0.868
- Vapor Pressure: 2 mm Hg @ 20°C
- Vapor Density: 4.7 (Air=1)
- Solubility In Water: Insoluble

10. STABILITY & REACTIVITY:

- Chemical Stability: Stable under ordinary conditions of use and storage.
- Conditions to Avoid: Heat, sparks, open flames and other sources of ignition.
- Incompatible Materials: Strong oxidizing agents.
- Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, irritating and toxic fumes and gases.
- Hazardous Polymerization: Not available.

11. TOXICOLOGICAL INFORMATION:

- Acute Effects: Irritant, irritating to eyes, skin, digestive and respiratory system.
- Toxicity data: LD50 ORL-RAT 4700mg/kg
- RTECS: DT5077000

12. ECOLOGICAL INFORMATION:



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General Information: Prevent contamination of soil, ground and surface waters. Do not discharge product unmonitored into the environment.

13. DISPOSAL CONSIDERATIONS:

Dispose of in accordance with all national and local environmental regulations.

14. TRANSPORT INFORMATION:

Land Transport (RID/ADR)

Shipping Name:	Beta Pinene
Hazard Class:	3
UN Number:	2319
Packing Group:	III

Marine Transport (IMDG)

Shipping Name:	Beta Pinene
Hazard Class:	3
UN Number:	2319
Packing Group:	III

Air Transport (IATA)

Shipping Name:	Beta Pinene
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