

# MATERIAL SAFETY DATA SHEET

## Distributor

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## Product identification

Product name: BETA PINENE  
CAS NO. 127-91-3 / 18172-67-3  
Synonyms: b-pinene, nopinene, pseudopinene  
Formula: C<sub>10</sub>H<sub>16</sub>  
Molecular weight: 136.24

## Composition/information on ingredients

Beta pinene: all.

## Hazards identification

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** May cause irritation of the digestive tract.  
The toxicological properties of this substance have not been fully investigated.

**Inhalation:** May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. Vapors may cause dizziness or suffocation.

## First aid measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Remove contaminated clothing and shoes.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

## Fire fighting measures

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

## Accidental release measures

Absorb with inert material (eg vermiculite, sand or earth), then place in suitable container. Use a spark-proof tool.

## Handling and storage

**Handling:** Use only in a well-ventilated area. Ground and bond containers when transferring material. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

**Storage:** Keep away from sources of ignition. Store in a cool place in the original container and protect from sunlight. Store in a tightly closed container

## Exposure controls/Personal protection

ACGIH / NIOSH / OSHA - Final PELs: none listed

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate gloves to prevent skin exposure.

**Respirators:** If exposure limits are exceeded.

## Physical and chemical properties

Appearance: transparent liquid.

Color (Pt-Co method): 35 max.

Specific gravity (d 20/4): 0.860 - 0.870

Refractive index (n 20/D): 1.4750 - 1.4820

Acid value (mgKOH/g): 0.5 max.

Moisture: 0.1% max.

Purity (GC analysis): 95% min.

Flash point: 32 degree C

## Stability and reactivity data

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, ignition sources, excess heat, strong oxidants.

**Incompatibilities with Other Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

## Toxicological information

RTECS#: unlisted.

LD50/LC50: n/a

Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA.

## Ecological information

Ecotoxicity: n/a

Environmental: n/a

Other: May be toxic to aquatic organisms; May cause long-term adverse effects in the aquatic environment.

## Disposal considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

## Transport Information

DOT hazard Class: 3. UN No: 2319. Packing group: III  
AS TERPENE HYDROCARBONS NOS.

## Regulatory Information

European Labeling in Accordance with EC Directives.

Hazard Symbols: Xi. Risk Phrases: R 10 Flammable. R 36/37/38 Irritating to eyes, respiratory system and skin.

## Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.