

MATERIAL SAFETY DATA SHEET

Distributor

SUMMIT TRADE PTE LTD
9/F Baiyun Riverscape Tower, 5 Xijiang 2nd Road,
Wuzhou, Guangxi, China (543001)
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Product identification

Product name: PINANE
CAS NO. 6876-13-7 or 473-55-2
Synonyms: cis-pinane, pinaneendoexo
Formula: C₁₀H₁₆
Molecular weight: 136.24

Composition/information on ingredients

Mixture of isomers.

Hazards identification

Eye: Causes eye irritation. May cause chemical conjunctivitis and corneal damage.

Skin: Causes skin irritation. May cause irritation and dermatitis. May cause cyanosis of the extremities.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Ingestion of large amounts may cause CNS depression.

Inhalation: Causes respiratory tract irritation. Aspiration may lead to pulmonary edema. Vapors may cause dizziness or suffocation. Can produce delayed pulmonary edema. May cause burning sensation in the chest.

Chronic: Effects may be delayed.

First aid measures

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

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.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

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: colorless liquid

Purity (GLC): 98% min.

Cis-isomer : tran-isomer: 95 : 5 min.

Refractive index (n_{20/D}): 1.4570 - 1.4670

Specific gravity (d_{20/4}): 0.849 - 0.959

Flash point: 38 degree C

Stability and reactivity data

Chemical Stability: Stable at room temperature in closed containers under normal storage conditions.

Conditions to Avoid: Ignition sources, excess heat.

Incompatibilities with Other Materials: Oxide.

Hazardous Decomposition Products: CO, CO₂, irritating and toxic fumes and gases.

Hazardous Polymerization: Has not been reported

Toxicological information

LD50 LC50 Mixture: n/a

RTECS#: n/a

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

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