

# MATERIAL SAFETY DATA SHEET

## Distributor

SUMMIT TRADE PTE LTD  
9/F Baiyun Riverscape Tower, 5 Xijiang 2nd Road,  
Wuzhou, Guangxi, China (543001)  
Last updated: July 07

## Product identification

Product name: DIPENTENE  
CAS NO. 138-86-3  
Synonyms: p-menthane, dl-limonene  
Formula: C<sub>10</sub>H<sub>16</sub>  
Molecular weight: 136.24

## Composition/information on ingredients

Dipentene: all.

## 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

Color: colorless or slight-yellowish transparent liquid

Specific gravity (20 degree C): 0.85 - 0.88

Diopre (20 degree C): 1.460 - 1.490

Range of distillation (170-190 degree C): 90% min.

Flash point: 46 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, CO<sub>2</sub>, irritating and toxic fumes and gases.

**Hazardous Polymerization:** Has not been reported

## Toxicological information

LD50 LC50 Mixture:LD50: (RAT) 5000 MG/KG  
RTECS#:

Draize test, rabbit, skin: 500 mg/24H Moderate;

Inhalation, mouse: LC50 = 67500 mg/m<sup>3</sup>;

Oral, mouse: LD50 = 5550 uL/kg;

Oral, rat: LD50 = 5300 mg/kg;

## 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: 2052. Packing group: III

## 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.