# MATERIAL SAFETY DATA SHEET

#### Distributor

SUMMIT TRADE PTE LTD 9/F Baiyun Riverscape Tower, 5 Xijiang 2nd Road, Wuzhou, Guangxi, China (543001) Last updated: June 2011

#### **Product identification**

Product name: p-Menthane (para-Menthane)

CAS NO. 99-82-1

Synonyms: 1-methyl-4-(1-methylethyl)cyclohexane,

1-isopropyl-4-methylcyclohexane

Formula: C<sub>10</sub>H<sub>20</sub>

Molecular weight: 140.26

#### Composition/information on ingredients

p-Menthane: 95-97%, Terpenoids: 3-5%, Total:100%.

#### **Hazards identification**

**Eye:** Contact with eyes may cause severe irritation, and possible eye burns.

Skin: Causes skin irritation. May cause skin

sensitization, an allergic reaction.

**Ingestion:** Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause kidney damage. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness,

drowsiness, and nausea.

**Inhalation:** May cause respiratory tract irritation.

### 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:** Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Ingestion: Do not induce vomiting. Get medical aid. **Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not or difficult breathing, give artificial respiration or oxygen.

# Fire fighting measures

**Extinguishing Media:** Use water fog, dry chemical, carbon dioxide, or regular foam.

**Other Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. As flammable Liquid, it can release vapors that form explosive mixtures at temperatures above the flashpoint.

# 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: 20 ppm TWA

NIOSH: 100 ppm TWA; 560 mg/m3 TWA 800 ppm IDLH OSHA - Final PELs: 100 ppm TWA; 560 mg/m3 TWA

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 transparent liquid Specific gravity (d 20/4): 0.790 - 0.810 Refractive index (n 20): 1.4370 - 1.4500

p-Cymene content: 0.5% max Purity (GC analysis): 95-97% min.

Flash point: 55 deg C Boiling point: 168 deg C

Vapor Pressure: 2.16 mm/Hg @ 25 deg C

## Stability and reactivity data

Acids or acidic material and strong oxidizing agents. Stability condition to avoid: material can undergo auto oxidation in air & generate heat which can build up in confined spaces causing spontaneous combust. Hazardous decomposition products: carbon monoxide and/or carbon dioxide.

# **Toxicological information**

Toxicological Information: 1985-86 TOXICICITY DATA. Rabbit, Skin: 500 mg administered for 24 hr produces severe irritation.

Man, oral, TDLO: 4700 mg/kg ingested produces behavioral changes (excitement, ataxia (loss of muscular coordination), headache).

Other toxicity data: listed in EPA TSCA Inventory, 1980.

#### **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**

IMO hazard Class: 3.3 UN No: 2319. Packing group: III

# **Regulatory Information**

MSDS collection references.

# **Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the data 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.

