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# **SAFETY DATA SHEET**

### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name:  $\alpha$ -Terpinene Product code: M0317

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Revision number: 1

# 2. HAZARDS IDENTIFICATION

Classification of the GHS
PHYSICAL HAZARDS

Flammable liquids Category 3

**HEALTH HAZARDS** 

Acute toxicity (Oral)Category 4Skin corrosion/irritationCategory 3Serious eye damage/eye irritationCategory 2A

**ENVIRONMENTAL HAZARDS** 

Acute aquatic toxicity Category 2
Chronic aquatic toxicity Category 2

**GHS label elements** 

Pictograms or hazard symbols







Signal word Hazard statement Warning

Flammable liquid and vapour

Harmful if swallowed Causes mild skin irritation Causes serious eye irritation

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

Precautionary statements [Prevention]

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary

measures against ignition by the static discharge and the spark.

Avoid release to the environment.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Wear protective gloves/eye protection/face protection.

# 2. HAZARDS IDENTIFICATION

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. [Response]

Rinse mouth.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

If skin irritation occurs: Get medical advice/attention.

Collect spillage.

[Storage] Store in a well-ventilated place. Keep cool.

Dispose of contents/container through a waste management company authorized by [Disposal]

the local government

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance α-Terpinene Component(s): Percent: >90.0%(GC) 99-86-5 **CAS Number:** 

Synonyms: p-Mentha-1,3-diene

**Chemical Formula:** C<sub>10</sub>H<sub>16</sub>

#### 4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical advice/attention if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of

soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Ingestion: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-

tight goggles.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing

Dry chemical, foam, carbon dioxide.

media:

up:

**Extinguishing media not to** Water (It may scatter and spread fire.)

be used:

Specific methods:

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by

spraying with water. Eliminate all ignition sources if safe to do so.

Special protective

equipment for firefighters:

When extinguishing fire, be sure to wear personal protective equipment.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Environmental precautions: Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.

Methods and materials for containment and cleaning

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with

appropriate laws and regulations.

# 6. ACCIDENTAL RELEASE MEASURES

Prevention of secondary

Remove all sources of ignition. Fire-extinguishing devices should be prepared in

hazards:

case of a fire. Use spark-proof tools and explosion-proof equipment.

# 7. HANDLING AND STORAGE

Handling

**Technical measures:** Handling is performed in a well ventilated place. Wear suitable protective equipment.

Prevent generation of vapor or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after

handling.

Use a closed system if possible. Use a ventilation, local exhaust if vapor or aerosol

will be generated.

Advice on safe handling: Avoid contact with skin, eyes and clothing.

**Storage** 

**Storage conditions:** Keep container tightly closed. Store in a cool, dark and well-ventilated place.

Store away from incompatible materials such as oxidizing agents.

Packaging material: Law is followed.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:** Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

**Respiratory protection:** Vapor respirator. Follow local and national regulations.

Hand protection: Protective gloves.

**Eye protection:** Safety glasses. A face-shield, if the situation requires. **Skin and body protection:** Protective clothing. Protective boots, if the situation requires.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid clear

Color: Colorless - Slightly pale yellow

Odor: Lemon-like
pH: No data available
Melting point/freezing point: No data available

**Boiling Point/Range:** 173 °C Flash Point: 52°C

**Explosive limits** 

Lower: No data available No data available Vapor Pressure: No data available 0.1kPa/20°C

Density: 0.84

Solubility: Miscible with : Alcohol Ether

Insoluble in: Water

#### 10. STABILITY AND REACTIVITY

**Stability:** Stable under proper conditions.

**Reactivity:** No special reactivity has been reported.

**Incompartible materials:** oxidizing agents

Hazardous Decomposition Carbon monoxide, Carbon dioxide

**Products:** 

### 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: orl-rat LD50:1680 mg/kg
Skin corrosion/irritation: skn-rbt 15 %/24H MLD
No data available

damage/irritation:

Germ cell mutagenicity: No data available

# 11. TOXICOLOGICAL INFORMATION

Carcinogenicity:

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available
RTECS Number: OS8060000

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** 

Fish: No data available
Crustacea: No data available
Algae: No data available
Persistence / degradability: No data available
Bioaccumulative No data available

potential(BCF): Mobillity in soil

log Pow:No data availableSoil adsorption (Koc):No data availableHenry's LawNo data available

constant(PaM³/mol):

# 13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

# 14. TRANSPORT INFORMATION

**Hazards Class:** 3: Flammable liquid.

**UN-No:** 2319

**Proper shipping name:** Terpene hydrocarbons, n.o.s.

Packing group:

# 15. REGULATORY INFORMATION

Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

### 16. OTHER INFORMATION

The reference company name of written contents

Company: TCI (Shanghai) DEVELOPMENT CO., LTD.

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