

MATERIAL SAFETY DATA SHEET

Isoprothiolane TC

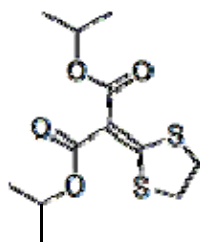
1. Chemical Product Identification

Product Name: Isoprothiolane

Molecular Formula: C₁₂H₁₈O₄S₂

Molecular Weight: 290.4

Structural Formula:



Chemical Name: Diisopropyl 1,3-dithiolan-2-ylidenemalonate

Form: Powder

Color: Pale yellow

Odor: Irritating smell

CAS No.: 50512-35-1

Manufacturer/information service:

Manufacturer: Shanghai Tenglong Agrochem Co., Ltd.

Address: Yangpu building 24B, No.2005, Huangxing Road, Yangpu
Shanghai 200002, China

Telephone: +86 21 5506 3225

Fax: +86 21 5506 3699

2. Composition / Information on Ingredients

Composition	CAS No.	Content (%)
Isoprothiolane	50512-35-1	95.0
Other ingredients	-	5.0

3. Hazards Identification

More important danger for the man: none

Dangers for the environment: toxic to aquatic.

Physical-chemical dangers: can decompose at high temperatures forming toxic gases.

4. First Aid Measures

Skin: remove contaminated clothing and shoes, flush with plenty of water and soap.

Eyes: flush with plenty of clear water for 15-20 minutes.

Inhalation: move affect person to fresh air and keep at rest until recovered. If not breathing, give

artificial respiration and get to a doctor.

Ingestion: do not induce vomiting; drink plenty of water. Then see doctor immediately.

5. Fire-Fighting Measures

Extinguishing media

To be used: water spray, foam, dry chemical powder and carbon oxide.

Don't use: not applicable.

Particular risk: none.

Measures of personal protection: safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

Environmental cautions

EX: prevent the contamination of the floor and of beds of water.

6. Accidental Release Measures

Personal cautions: The product is harmful if inhaled or swallowed. Will irritate the eyes, nose, throat and skin. Avoid inhaling spray mist. Keep people and animals away.

Cleaning methods

EX: clear the liquid formation. Transfer to a properly labelled deposit that will be closed and sealed until the recovery of elimination of the product.

Environmental cautions

EX: prevent the contamination of the floor and of beds of water.

7. Handling and Storage

Product is stable if stored in an airtight container and free of moisture and high humidity. Keep out of reach of children. Do not contaminate water, food, or feed by storage or disposal. Keep from contact with fertilizers, insecticides, fungicides, and seeds during storage. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, and clothing. Do not apply, drain, or flush equipment on or near desirable trees or other plants.

8. Exposure Controls/Personal Protection

PEL: not applicable

Personal protective equipment: full-length overalls

Respiratory protection: approved respirator.

Protective gloves: rubber gloves

Eye protection: safety goggles or face shield.

Industrial hygiene: ventilation

9. Physical and Chemical Properties

Form: Powder

Color: Pale yellow

Odor: Irritating smell

Melting point: 50-51°C

Boiling point: 167-169°C (0.5mmHg)

Vapor pressure: 1.41×10^{-4} mmHg at 25°C

Shanghai Tenglong Agrochem Co., Ltd www.tlongagro.com

Tel: (86)21-55063225 Fax: (86)21-55063699

Add: Yangpu building 24B, No.2005, Huangxing Road, Yangpu Shanghai

Solubility: in Water: 48ppm at 20°C

Solubility in organic solvents at 25°C: methanol 150g/100g solvent; dimethyl sulfoxide 230g/100g solvent; acetone 400g/100g solvent; chloroform 230g/100g solvent; benzene 300g/100g solvent; xylene 230g/100g solvent; n-hexane 4g/100g solvent.

Relative density: 1.044

Partition coefficient: Kow logP = 3.3

10. Stability and Reactivity

Conditions to avoid: avoid heat and fire.

Products to avoid: not applicable

Thermal decomposition: not applicable

Hazardous decomposition products: toxic gases.

Hazardous reaction: none.

11. Toxicological Information

Acute Oral LD₅₀: 1100mg/kg (for male rat); 1330mg/kg (for female rat)

Acute Dermal LD₅₀: >2000mg/kg

Contact with the skin: non-irritation to skin for rabbit.

Contact with the eyes: slight irritation to eyes for rabbit.

Inhalation LC₅₀ (rat, 4h): >2.0mg/L

Ingestion: not applicable.

Sensitivity: non-sensitive.

12. Ecological and Ecotoxicological Information

Fish toxicity:

48 hour LC₅₀, Rainbow trout- 6.8mg/L

48 hour LC₅₀, Carp- 0.7mg/L

Avian toxicity:

Oral LD₅₀, Japan male quail- 4710mg/Kg

Oral LD₅₀, Japan female quail - 4180mg/kg

3 hour LD₅₀ daphnia: 62mg/L

13. Disposal Considerations

Waste: Pesticide wastes are acutely hazardous. Dispose of in accordance with applicable local laws and regulations.

Container: Refer to product label.

14. Transport Information

Not applicable.

15. Regulatory Information

Not applicable.

16. Other Information

Shanghai Tenglong Agrochem Co., Ltd www.tlongagro.com

Tel: (86)21-55063225 Fax: (86)21-55063699

Add: Yangpu building 24B, No.2005, Huangxing Road, Yangpu Shanghai



This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Tenglong Agrochem