



Hangzhou Tianlong Biotechnology Co., Ltd.

Add: Room 1906, Fengqi Times Tower, No.338, Fengqi East Road, Hangzhou, Zhejiang, China.

MATERIAL SAFETY DATA SHEET

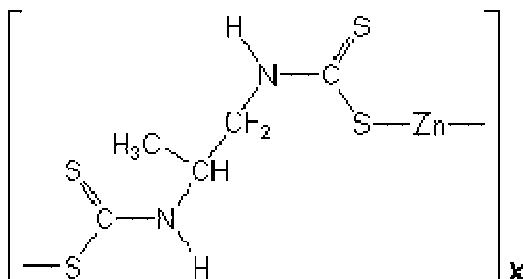
1. Chemical Product and company Identification

Product Name: Propineb

Molecular Formula: (C₅H₈N₂S₄Zn) x

Molecular Weight: 289.8

Structural Formula:



Chemical Name: [[2-[(dithiocarboxy) amino]-1-methylethyl] carbamodithioato]] (2-)-κS, S'] zinc

CAS No.: 12071-83-9

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Propineb	12071-83-9	85.0
Other ingredients		15.0

3. Hazards Identification

Harmful by inhalation. May cause sensitization by skin contact.

Harmful: dangerous of serious damage to health by prolonged exposure if

swallowed.

4. First Aid Measures

Inhalation: If inhaled remove to fresh air and keep at rest. Obtain medical advice.

Skin contact: Carefully remove contaminated clothing. Wash affected areas with soap and water. Seek medical aid if at all worried.

Eye contact: Rinse eyes immediately with clean water for at least 15 minutes and obtain medical aid.

Ingestion: Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice as above. Avoid giving alcohol.

First Aid Facilities: Ensure eyewash and shower facilities are available.

5. Fire-Fighting Measures

Extinguishing media: Water spray, foam, dry agent, carbon dioxide, sand

Hazards from combustion products: In a fire, formation of oxides of sulphur and nitrogen can be expected.

6. Accidental Release Measures

Avoid contact with spilled material or contaminated surfaces. Extinguish possible sources of ignition. Do not smoke, eat or drink during the clean up process. Wear personal protective clothing and equipment as detailed in Section 8. Keep people and animals away. Prevent spilled material from entering drains or watercourses. Avoid creation of dust, damping down if necessary. Sweep up and collect and store in properly labeled drums for safe disposal. Clean floor with a damp cloth and place it in the drum. Seal drums and label ready for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses etc. is unavoidable, warn the local water authority.

7. Handling and Storage

Handling: Keep out of reach of children. Repeated exposure may cause

allergic disorders. Avoid contact with eyes and skin. Do not inhale dust. Interacts with alcohol-avoid alcohol on days of use. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing.

Storage: Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

8. Exposure Controls/Personal Protection

Engineering controls: Control process conditions to avoid contact. Use in a well-ventilated area only.

Personal Protective Equipment:

Eyes: Safety goggles if exposure is possible.

Clothing: Suitable work clothes to avoid skin contact with the product.

Gloves: Elbow-length PVC gloves if exposure to the product is likely.

Respiratory: Wear a respirator if inhalation is possible.

9. Physical and Chemical Properties

Appearance: White or light yellow powder

PH: 5.0 to 7.0 (1% in water)

Vapor pressure: <1.0 mPa at 20 °C

Vapor density: Not available

Melting point: Decomposes above 160 °C

Solubility: Disperses in water.

Relative density: 1.831

Partition coefficient : KowlogP= -0.26@20°C

10. Stability and Reactivity

Chemical stability: Stable under normal conditions of use.

Conditions to avoid: Moisture, heat

Incompatible materials: Strong acids and alkalis, strong oxidizing agents.

Hazardous decomposition products: In a fire, formation of oxides of sulphur and nitrogen can be expected.

Hazardous reactions: If this product comes into contact with acids, carbon disulphide and hydrogen sulphide may be evolved.

11. Toxicological Information

Oral toxicity: LD50 rat: 3708 mg/kg

Dermal toxicity: LD50 rat: >5000mg/kg

Inhalation toxicity: LC50 rat (4 hour): approximately 5.04 mg/L

Skin irritation: Non irritating (rabbit)

Eye irritation: Non irritating (rabbit)

12. Ecological Information

Ecotoxicity: Fish toxicity: LC50 (96 h) golden orfe 133mg/L

LC50 (96h) rainbow trout 0.4 mg/L

Daphnia toxicity: EC50 (48h) water flea 4.7 mg/L

13. Disposal Considerations

Single rinse before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on-site. Puncture and bury empty container in a local authority landfill. If no landfill is available, bury the container below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Dispose of waste product through a reputable waste contractor.

14. Transport Information

Class: 6.1

UN No.: 2588;

Packing group III

15. Regulatory Information

Safety Phrases: Keep out of reach of children

Keep away from food, drink and animal feeding stuff

Do not breathe spray

When using do not eat, drink or smoke

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

In case of accident or if you feel unwell, seek medical advice immediately (Show the label where possible)

Use appropriate containment to avoid environmental contamination

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith

and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.