



**Hangzhou Tianlong Biotechnology Co., Ltd.**

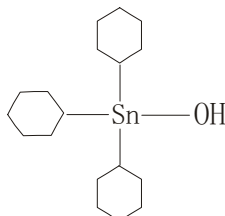
Add: Room 1906, Fengqi Times Tower, No.338, Fengqi East Road, Hangzhou, Zhejiang, China.

## MATERIAL SAFETY DATA SHEET

### 1. Chemical Product Identification

Product Name: Cyhexatin

Molecular Formula:



Molecular Weight: 385.2

Chemical Name: Tricyclohexyltin Hydroxide

Empirical formula: C<sub>18</sub>H<sub>34</sub>OSn

CAS No.: 13121-70-5

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### 2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Cyhexatin	13121-70-5	95.0
Other ingredients		5.0

### 3. Hazards Summarizing

Routes of exposure:

Skin, inhalation, oral

More important danger for the man: absorb plenty of the pesticide, may injury CNS

Dangers for the environment: be toxic to aquatic

Physical-chemical dangers: not applicable

### 4. First Aid Measures

Skin: wash with soap and water.

Eyes: flush with plenty of water for at least 15 minutes. See medical attention if irritation develops or persists.

Inhalation: move to fresh air. Do not breathe spray mist.

Ingestion: Call physician/poison control center immediately.

## **5. Fire-Fighting Measures**

Extinguishing media

To be used: dry chemical, foam, carbon dioxide.

Don't use: not applicable

Particular risk: not applicable

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

Cleaning methods

EX: pick up for sweeping or capsulation avoiding the powder formation.

Transfer to a properly labeled deposit that will be closed and sealed until the recovery of culmination of the product.

Environmental cautions

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

## **7. Handling and Storage**

Handling: do not apply to humans, their clothing, or bedding. Do not contaminate food or use on household tank.

Storage: store in original container only in cool, dry, well-ventilated, secure area out of reach of children and animals.

Fire and explosion protection:

## **8. Exposure Controls / Personal Protection**

Engineering measures

Exposure control measures: Ensure adequate ventilation when handling in an enclosed space.

Personal Protective Equipment

Respiratory system: Full mask with filter

Skin and body: Wear long sleeved shirt, water proof boots and trousers worn outside of boots.

Hands: Protective gloves for chemicals.

Eyes: Goggles.

General hygiene: Wash hands and exposed skin before meals and after work. Do not eat drink or smoke when handling.

## **9. Physical and Chemical Properties**

Color: Colorless and powder crystal.

Odor: Faint fragrance

Melting point: 195—198°C.

Vapour Pressure: < 0.01 mPa at 25°C  
Density: not applicable  
Bulk density: not applicable  
Water solubility: is very insoluble in water.  
Other solubilities: It is soluble in some organic solvents.  
PH value: 5-7  
Flash point: not applicable  
Ignition temperature: not applicable

#### **10. Stability and Reactivity**

Stability: (25°C) in water <1mg/L, in acetone 1.3g/L, in dimethyl benzene 3.6g/L, in carbon tetrachloride 28g/L. in dichloro-methane 34g/L. Water suspension from weak acid (pH=6) to alkali stable. No erosive and resolve in the ultraviolet light.

Conditions to avoid: acid and light Products to avoid: acid pesticide Thermal decomposition: 228°C

Hazardous decomposition products: not applicable

Hazardous reaction: not applicable

#### **11. Toxicological Information**

Oral LD50 (Rat)>5,400 mg/kg. Dermal LD50 (Rabbit) >2,000 mg/kg. It is no harmful to most of insect.

Contact with the skin: weakness, headaches, salivation, sweating, nausea

Contact with the eyes: eyes become red, blurred vision, nonreactive pinpoint pupils and pain.

Inhalation: weakness, headaches, tightness in the chest, abdominal cramps and salivation.

Ingestion: salivation, sweating, nausea, vomiting, diarrhea, abdominal cramps, and slurred speech.

Sharp toxicity: not applicable effects for chronic

#### **12. Ecological Information**

Avian acute oral LD50: Approximately 250 mg to 400 mg technical cyhexatin/kg body weight for quail (moderately toxic).

Avian dietary LC50: 195 ppm for bobwhite quail (highly toxic).

Freshwater fish acute LC50: coldwater species (rainbow trout), 6 ppb for technical; warmwater species (bluegill), 4 ppb for technical.

Aquatic freshwater invertebrate toxicity: <<Daphnia> 0.2 g/l

Additional data are required to fully characterize the ecological effects of cyhexatin.

Mechanism of pesticidal action: It is suspected that cyhexatin inhibits adenosine triphosphate (ATP) enzymes.

Metabolism and persistence in plants and animals: Available data suggest that plant degradates of cyhexatin are translocated following root exposure; however, these data are insufficient to adequately characterize plant metabolism. Known animal metabolism is summarized above.

**13. Disposal Considerations**

Dispose of in compliance with all state and local laws and regulation.

After use: Triple rinse empty container with water and empty contents into spray tank. Destroy the empty container by puncturing and crushing. Dispose of destroyed container by taking to an approved council disposal site or alternatively bury under at least 50cm of soil in a location away from houses, crops, water supply, and ground water.

#### **14. Transport Information**

Class: 6.1

UN No.: 2787

Packaging Group III

Other Information: Highly toxic.

#### **15. Regulatory Information**

Safety Phrases: Keep out of reach of children

Keep away from food, drink and animal feeding stuff

Do not breathe dust.

Avoid contact with skin and eyes

Wear suitable protective clothing and gloves.

This material and its container must be disposed of as hazardous waste

#### **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 recipients 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.