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## MATERIAL SAFETY DATA SHEET

Date: Feb 02, 2012

### MANUFACTURER INFORMATION

Manufacturer: ZHEJIANG HEBEN PESTICIDE & CHEMICALS CO., LTD

Add: Liandun Road, Houjing Village, Yanjiang Industrial Area, Wenzhou, Zhejiang, China

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### 1. CHEMICAL PRODUCT IDENTIFICATION

**Product:** Thiophanate-methyl 700g/kg + Penconazole 25g/kg WP

**Active ingredient 1:** Thiophanate-methyl

Molecular Formula: C<sub>12</sub>H<sub>14</sub>N<sub>4</sub>O<sub>4</sub>S<sub>2</sub>

Molecular Weight: 342.4

Chemical Name: Dimethyl 4,4'-(0-phenylene) bis(3-thioallophanate) (IUPAC)

CAS No.: 23564-05-8

**Active ingredient 2:** Penconazole

Molecular Formula: C<sub>13</sub>H<sub>15</sub>Cl<sub>2</sub>N<sub>3</sub>

Molecular Weight: 284.2

Chemical Name: 1-(2,4-dichloro-β-propylphenethyl)-1H-1,2,4-triazole (IUPAC)

CAS No.: 66246-88-6



### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Composition	CAS No.	Content g/kg
Thiophanate-methyl	23564-05-8	700
Penconazole	66246-88-6	25
Other ingredients		275



### 3. HAZARDS IDENTIFICATION

**More important danger for the man:** This product may be harmful if swallowed or inhaled. Eye, skin and respiratory irritant.

**Dangers for the environment:** Penconazole is toxic to aquatic organisms. Avoid release to the environment in circumstances different to normal use. Thiophanate-methyl is some hazard to fish and wildlife. Nonphytotoxic when used as directed.

**Physical-chemical dangers:** when the product is combustible, may release hazardous decomposition products, such as carbon dioxide, nitride and carbon oxide.

### 4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre, and follow the advice given. Show this Material Safety Data Sheet to a doctor.

**Skin:** Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.

**Eyes:** First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

**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 if the person is conscious. Give glass of water. Get to a doctor.

**Notes to physician:** No specific antidote if ingested. Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Powder, foam, and carbon dioxide.



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

## 6. ACCIDENTAL RELEASE MEASURES

**Spillage disposal:** Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

## 7. HANDLING AND STORAGE

**Handling:** Do not apply to humans, their clothing, or bedding. Do not contaminate food or use on household tanks. Wash your hands with soap and plenty of water completely after handling.

**Storage:** Store at normal temperatures, away from children, domestic animals, food and feed products, seed and fertilizer. Do not contaminate other stored products or the storage area by handling or storage of this product. Keep in a well-ventilated room. Separated from acids, strong oxidants, food and feedstuffs. Dry. Keep in a well-ventilated room.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

Respiratory protection: Approved respirator;

Protective gloves: Rubber gloves;



**Dermal:** Acute percutaneous LD<sub>50</sub> for male and female rats >10000 mg/kg;

**Inhalation:** LC<sub>50</sub> (4 h) for rats 1.7 mg/l air;

Mild skin and eye irritant (rabbits);

Sensitisation: Not a skin sensitizer (guinea pigs);

Chronic toxic: Not mutagenic, teratogenic and carcinogenic;

**Active Ingredient 2:** Penconazole

**Oral:** Acute oral LD<sub>50</sub> for rats ≥5000 mg/kg;

**Dermal:** Acute percutaneous LD<sub>50</sub> for rats >1000 mg/kg;

**Inhalation:** LC<sub>50</sub> for rats (1 h) 20 mg/l air;

Strong eye irritant; skin reacts after repeated and long-lasting exposure (rabbits);

Sensitisation: Not known;

Chronic toxic: No relevant mutagenic or embryotoxic effect.

## 12. ECO-TOXICOLOGICAL INFORMATION

The following information is from technical product:

**Active ingredient 1:** Thiophanate-methyl

**Aquatic organisms:**

Fish: LC<sub>50</sub> (96 h) for rainbow trout 7.8, carp 1.1 mg/kg;

Daphnia: LC<sub>50</sub> (48 h) 20.2 mg/l;

Algae: EC<sub>50</sub> (96 h) for Chlorella 0.8 mg/l;

**Other Animals (Non-target species):**

Birds: Acute oral and percutaneous LD<sub>50</sub> for Japanese quail >5000 mg/kg feed;

Bees: Not toxic to bees; LD<sub>50</sub> (topical) >100 µg/kg;

**Active ingredient 2:** Penconazole

**Aquatic organisms:**

Fish: LC<sub>50</sub> (96 h) for golden orfe 0.1 mg/l;

Daphnia: LC<sub>50</sub> (48 h) 0.2 mg/l;





Algae:  $E_rC_{50}$  for *Scenedesmus subspicatus* 5 mg/l;

**Other Animals (Non-target species):**

Birds: Acute oral  $LD_{50}$  for mallard ducks >500 mg/kg;

Bees: No significant mortality effects;

### 13. DISPOSAL CONSIDERATIONS

Material which can not be used at the site should be disposed of in an approved waste disposal facility following all applicable Federal, State and Local regulations. If burned, stay out of smoke. Do not contaminate water supplies by disposal of wastes or containers.

### 14. TRANSPORT INFORMATION

Don't transport with food and feedstuff.

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (containing Thiophanate-methyl 70% + Penconazole 2.5%WP);

UN No.:3077

UN hazardous class: 9

Packaging group: III

### 15. REGULATORY INFORMATION

Symbol: Xn (Harmful); N (Dangerous in environment);

R phrases:

R20/22: Harmful by inhalation and if swallowed.

R43: May cause sensation by skin contact.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases:





S1/2: Keep locked up and out of the reach of children.

S7/9: Keep container tightly closed in a well-ventilated place.

S24/25: Avoid contact with skin and eyes.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S46: If swallowed, seek medical advice immediately and show this container or label.

S57: Use appropriate container to avoid environmental contamination.

S60: 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 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.

