

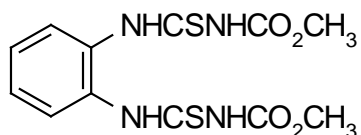
## MATERIAL SAFETY DATA SHEET

Apocalypse

**Thiophanate Methyl 70% WP**

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE

Common name: Thiophanate Methyl  
 Form: WP  
 Chemical Name: dimethyl 4,4'-(*o*-phenylene)bis(3-thioallophanate)  
 Formula: C<sub>12</sub>H<sub>14</sub>N<sub>4</sub>O<sub>4</sub>S<sub>2</sub>  
 Mol. wt: 342.4  
 Structure:



### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Physical And Chemical Properties:

Substance	Conc.	Uses
<b>Active ingredient</b>		
Thiophanate Methyl	70%	Fungicide
<b>Inert ingredient</b>		
Others	30%	
Total	100%	

### SECTION 3. HAZARDS IDENTIFICATION

No dangerous.

CARCINOGENIC EFFECTS: Not carcinogenic

MUTAGENIC EFFECTS: No mutagenic

TERATOGENIC EFFECTS: No teratogenic

DEVELOPMENTAL TOXICITY: No effect

## **SECTION 4.FIRST AID MEASURES**

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**In case of inhalation** : No dangerous  
**In case of skin contact** : Wash with water.  
**In case of eye contact** : Wash with water.  
**In case ingestion** : Drink water

## **SECTION 5.FIRE FIGHTING MEASURES**

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**Protection against fire and explosion:** No special requirement.

**Exinction methods:** Water or any other.

**Excluded extinction Methods:** None.

## **SECTION 6.ACIDENTAL RELEASE MEASURES**

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### **Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### **Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## **SECTION 7.HANDLING AND STORAGE**

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### **Precautions:**

1. Keep away from heat.
2. Do not ingest.
3. Do not breathe dust.

### **Storage:**

1. Keep container dry.
2. Keep in a cool place.

## **SECTION 8.EXPOSURE CONTROL/PERSONAL PROTECTION**

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### **Personal Protection:**

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### **Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Flowability</b>	Free flow
<b>Physical state</b>	pastes
<b>Color</b>	Off white
<b>Appearance density</b>	0.98 gm/cm <sup>3</sup> (CIPAC F p.11 MT 3 )
<b>pH solution 10%</b>	4.8 - 5
<b>Persistent foam test</b>	Accepted (CIPAC F p. 140 MT43)

### **SECTION 10. STABILITY AND REACTIVITY**

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<b>Stability</b>	Stable under normal conditions
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### **SECTION 11. TOXICOLOGICAL INFORMATION**

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**Acute toxicity:** Not toxic

**Chronic Effects:**

CARCINOGENIC EFFECTS: Not carcinogenic

MUTAGENIC EFFECTS: No mutagenic

TERATOGENIC EFFECTS: No teratogenic

DEVELOPMENTAL TOXICITY: No effect

### **SECTION 12. ECOLOGICAL INFORMATION**

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**Biodegradability:** The product is biodegradable.

**Ecological and biological effects:** None

### **SECTION 13. DISPOSAL INSTRUCTION**

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Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Small amounts of this material may be suitable for sanitary sewer or trash disposal.

### **SECTION 14. TRANSPORT INFORMATION**

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This product is not classified as a Dangerous Good.

## **SECTION 15. REGULATORY INFORMATION**

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Acute: Yes

Chronic: No

Fire: No

Read and follow all label directions.

## **SECTION 16. OTHER INFORMATION**

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The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements.