1. IDENTIFICATION OF COMPANY & PRODUCT

Product Name : Thiophanate methyl 70% WP
Chemical Name : Dimethyl 4, 4’-(o-phenylene) bis (3-thioallophanate)
Brand Name : THICROP
Users : Fungicide
Molecular Formula : C9H7N3S
Manufacturer : CROP LIFE SCIENCE LTD.
Address : Plot No. 5165, 5166, 5151, G.I.D.C., Ankleshwar-393002
           Gujarat, India
Tele Fax Number : 91 2646 238479

2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Percent or content (w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thiophanate-methyl</td>
<td>23564-05-8</td>
<td>70.00 %</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>--</td>
<td>30.00 %</td>
</tr>
</tbody>
</table>

3. HEALTH HAZARDS IDENTIFICATION

Emergency Overview
Pale brown powder with a faint odor as sulfur-containing compounds.
Stable in normal condition.
Harmful if inhaled.
Suspected of causing genetic defects.
May cause damage to chest and respiratory system through prolonged or repeated exposure.
Toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

4. FIRST AID MEASURES

Eye contact : Immediately flush eyes with plenty of water for at least 15min. Get medical advice if irritation persists.
Skin contact : Wash skin with soap and water while removing contaminated clothing and shoes.
Inhalation : Remove to fresh air and call a physician.
Ingestion : Induce vomiting immediately, as directed by a physician. Wash out mouth with
water. Never give anything by mouth to an unconscious person. Call a physician.

Medical instructions : 
Note to Physician : No specific antidote. Supportive care. Treatment based on judgment of the physician in response to the reactions of the patient.

5. FIRE FIGHTING MEASURES

Flash point : Not applicable 
Fire and Explosion Hazards : Toxic, irritating fumes may be formed under conditions. 
Suitable extinguishing Media : Use water, CO2, dry chemical, foam 
Protective Equipment For firefighting : Wear positive-pressure, self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Protective equipment: Wear personal protective equipment. Refer to Section 8 for personal protective equipment. 
Personal precaution: Avoid raising dust. 
Environment precaution: Prevent from releasing it to the environment as this product is toxic to aquatic organisms. 
Cleaning procedure: Obey all Federal, State or local regulations for health & safety and environmental protection when the accidental release is treated.

7. HANDLING AND STORAGE

Handling 
Wear personal protective equipment. 
Refer to Section 8 for personal protective equipment. 
Handle as an organic dust. 
Avoid release to environment. 
Avoid contact with eyes, skin and clothing. 
Avoid breathing dust. 
Use only in a well-ventilated areas, or chemical fume hood. 
Wash thoroughly after handling. Keep out of the reach of children.
8. EXPOSURE CONTROLS/PERSOAL PROTECTION

**Breathing Protection**: Use respirator or laboratory fume hood. In production settings, airline supplied hood-type respirators are preferred to provide face, eye and respiratory protection. Shower and change clothing is skin contact occurs

**Eye protection**: Goggles or appropriate respirator

**Skin Protection**: Impervious gloves and body covering to prevent skin covering

**Ingestion**: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**: Off-white fine powder.

**Powder Odor**: Faint sulfur odor.

**Melting point**: Not applicable.

**Boiling point**: Not applicable

**Vapour pressure**: Not applicable

**Flammability**: Flammable

**pH**: 4.0 – 7.0 (CIPAC method)

**Corrosive properties**: Non corrosive

**Solubility in water**: Disperse in water

**Specific gravity**: Non-applicable

**Bulk density**: 0.2 to 0.3 g/cm3

10. STABILITY AND REACTIVITY

**Stability**: Stable under normal storage conditions

**Incompatibility**: None known

**Hazardous Polymerization**: Will not occur.
Hazardous
Decomposition Products: Will produce carbon monoxide, mercaptan or hydrazine derivatives if heated to decomposition or when involved in a fire.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Oral (rat) LD50 >5000 mg/kg (male), 4350 mg/kg (female)
Dermal (rat) LD50 >5000 mg/kg (male, female)
Inhalation (rat) LC50 (4hr) >1.8 mg/L (male, female)
Irritation:
Eyes (rabbit): Mild
Dermal (rabbit): Negative

Chronic Toxicity and Carcinogenicity (Active ingredient)
Chronic toxicity/Carcinogenicity test (2years)
NOEL (mouse): 16mg/kg/day (male), 64mg/kg/day (female)
NOEL (rat): 8.8mg/kg/day (male), 10.2 mg/kg/day (female)

12. ECOLOGICAL INFORMATION

Ecological Toxicity
Acute Toxicity to aquatic organisms
Acute Toxicity to Fish: LC50 (Carp) >100 mg/L (96hrs) (RD 8923)
        LC50 (Trout) 2.2 mg/L (96hrs) (RD 8329)
Acute Toxicity to Daphnia: EC50 (Daphnia magna) 15.6 mg/L (48hrs) (RD8303)
Acute Toxicity to Algae: EbC50 (Green Algae) 4.7 mg/L (72hrs) (RD 8305)

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of any cleanup materials and waste residue according to applicable federal, state and local regulations. Avoid contamination of water sources.
14. TRANSPORT INFORMATION

Rail/Road (RID/ADR)
Proper Shipper Name: PESTICIDE, SOLID, TOXIC, N.O.S.
Class: 9
UN No.: 3077

Packing Group: III

Sea (IMDG – Code)
Proper Shipper Name: PESTICIDE, SOLID, TOXIC, N.O.S.
Class: 9
UN No.: 3077
Packing Group: III

Air (ICAO/IATA)
Proper Shipper Name: PESTICIDE, SOLID, TOXIC, N.O.S.
Class: 9
UN No.: 3077
Packing Group: III

15. REGULATORY INFORMATION

EU- Classification Hazard Symbol
Xn Harmful

Special Risks (R-Phrases)
R21/22 Harmful in contact with skin and if swallowed
R40 Limited evidence of a carcinogenic effect

Safety Advice (S- Phrases)
S2 Keep out of the reach of children
S13 Keep away from food, drink and animal feeding stuffs
S22 Do not breathe dust
S36/37 Wear suitable protective clothing and gloves

International WHO Toxicity Classification
II Moderately toxic
16. OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.