

1: IDENTIFICATION

Chemical Name	Dimethyl 4, 4'-(o-phenylene) bis (3-thioallophanate)	
Synonyms	Thiophanate methyl 70% WP	Trade Name TMT 70
Uses	Fungicide	Molecular Formula C ₉ H ₇ N ₃ S
Manufacturer/ Supplier	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra	
Emergency Contact	9503095030	E-mail info@agrostar.in

2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Thiophanate-methyl	23564-05-08	70.00%
Other Ingredient	-	30.00%

3: HAZARD IDENTIFICATION

Physical/Chemical Hazard:	Acute Toxicity 4	Aquatic chronic toxicity 2
EUH401 To avoid risks to human health and the environment, comply with the instructions for use		
Human Health Hazard:	H332 Harmful if inhaled	H341 Suspected of causing genetic defect
H350 May cause cancer		
Environmental Hazard:	H373 May cause damage to chest and respiratory system through prolonged or repeated exposure	
	H411 Toxic to aquatic life with long lasting effects	

4: FIRST AID MEASURES

General: Have the product container, label or safety data sheet while seeking medical attention, a poison control center or physician, or going for treatment.

Inhalation: Move patients to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing is difficult, treat with artificial respiration and oxygen. Immediately seek medical attention if symptoms are severe or persist

Ingestion: Rinse mouth with water thoroughly and give plenty of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention or poison control center immediately and show this container or label.

Skin Contact: In case of contact with product, remove contaminated clothes and wash exposed skin area with plenty of water and soap immediately. Seek medical attention if irritation persists.

Eye Contact: Rinse immediately with plenty of water for several minutes. After 5 minutes remove contact lenses if present and continue rinsing with plenty of water. Continue to rinse with eyelid wide open for at least 15-20 minutes. Seek medical attention if irritation develops.

Note to physician: No specific Antidote. Treat symptomatically.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water spray or fog, alcohol-resistant foam, dry chemical powder or carbon dioxide

Unsuitable Extinguishing Media: Not known

Specific Hazards: Thermal decomposition or combustion may produce harmful and irritant gas/fume such as carbon dioxide, carbon monoxide, sulphur oxides and nitrogen oxides.

Hazardous Thermal (de)composition: The decomposition products are toxic fumes such as oxides of carbon, sulphur and nitrogen

Special Procedures: Collect extinguishing water separately and do not discharge into the drain or water bodies. If risk of water pollution occurs, notify appropriate authorities. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Protection of Fire Fighters: Do not breathe fumes. Wear fire/flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing. Use personal protective equipment. Evacuate personnel to safe areas and keep them away from and upwind of spill/leak.

Environmental Precaution: Do not allow runoff to enter drains and public waters. Notify the authorities if product enters.

Methods for Cleaning-up: Sweep/ shovel up the spill. Avoid dust formation. Collect and transfer into containers for disposal. Clean contaminated floors and objects thoroughly with water and detergents. Dispose of in accordance with local regulations.

7: HANDLING & STORAGE

Handling: Do not smoke, drink, or eat during handling. Wash hands and other exposed areas with mild soap and water before and after handling material. Wear protective equipments to avoid contact and/or inhalation with the product. Wash clothing and equipment before reuse. Good personal hygiene procedures must be practiced.

Specific Conditions: Good local exhaust ventilation.

Storage: Store in dry, cool, well-ventilated area. Keep in original container and tightly closed when not in use. Keep product away from children, seeds, fertilizer, foods and animal feeds. Protect from direct contact with water or excessive moisture, acids or bases.

8:EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

General Protection: Avoid breathing dust, vapours or aerosols. Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Personal Protection: Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

Respiratory Protection: Always use NIOSH/MSHA approved respiratory protection equipment with a universal filter type including particle filter.

Skin Protection: Wear suitable protective clothing, including long sleeved shirt, long pants, gloves, coveralls, and boots to avoid skin contact.

Hand Protection: Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC) or Viton.

Eye Protection: Safety goggles, chemical splash goggles or face shield should be used. Safety showers and eyewash should be easily available.

Others: Wash clothing before reusing.

9:PHYSICAL/CHEMICAL PROPERTIES

Appearance: Fine powder.

pH: 4.0 – 7.0 (CIPAC method)

Physical State: Solid

Flammability: Flammable

Colour: Off white

Bulk Density[g/cc]: 0.2 - 0.3

Odour : Faint sulfur odor.

Solubility in water: Dispersible

10:STABILITY & REACTIVITY

Stability: Stable under normal circumstances.

Conditions to Avoid: High temperature.

Hazardous Decomp. Products: If heated to decomposition or when involved in fire, carbon monoxide, mercaptan or hydrazine derivatives may be produced

Materials to Avoid: Oxidizing agents, strong acids or bases.

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg]: >5000

Rat inhalation LC50 [mg/l/4h] : >1.8

Skin irritation (rabbit): Non irritant

Dermal (rat) LD50 [mg/kg]: >5000

Skin Sensitization (Guinea Pig): Non-sensitizer

Eye irritation (rabbit): Mild irritant

12: ECOLOGICAL INFORMATION

Ecotoxicity:

Rainbow trout LC50 (96 hrs)[mg/L]: >2.2

Daphnia magna EC50(48 hrs) [mg/L]: 15.6

Green algae EC₅₀ (72 hrs)[mg/L]: >4.7

Bio-accumulation Potential: No data available

Persistence, Degradability and Mobility in soil: No data available

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: Dispose of this product only according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Break, crush, or puncture and dispose to waste management facility or dispose of in compliance with local regulations. DO NOT burn empty containers or product.

Contaminated Packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the product. Do not reuse container unless they are specifically designed to be refilled

14: TRANSPORT INFORMATION

UN No. 3077 **Proper Shipping Name:** Pesticide, Solid, Toxic, N.O.S.

Land Transport (ADR/RID): Class-9, Packing Group-III **Sea Transport (IMO) (IMDG):** Class-9, Packing group-III, Marine Pollutant-Yes

Air Transport (IATA / ICAO): Class-9 Packing group-III, Environmental hazard mark-Yes

15: REGULATORY INFORMATION

Hazard Symbol: GHS07, GHS08, GHS09 , Xn Harmful

International WHO Toxicity: Classification II Moderately toxic

H - Statement: H 332, H341, H350, H373, H411, EUH208, EUH401

16: OTHER INFORMATION

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