

MATERIAL SAFETY DATA SHEET

ALERT 50 SC

Section 1. Chemical Product and Company Identification

Hailir Pesticides and Chemicals Co., Ltd

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Product Name: Thiophanate-methyl 50% SC

Common Name: Thiophanate-methyl

Chemical Name (IUPAC): dimethyl 4,4'-(*o*-phenylene)bis(3-thioallophanate)

Section 2. Composition/Information on Ingredients

Component	CAS Number	Content (%)
Thiophanate-methyl	[23564-05-8]	50%
Others	Not available	50%

Section 3. Hazards Identification

Emergency overview: Caution! Keep out of reach of children. Harmful if swallowed, inhaled or absorbed through skin. Causes eye irritation. May cause thyroid & liver damage after repeated exposure based on animal data. May cause allergic skin reaction.

Routes of entry: Ingestion, inhalation, absorbed through skin.

Health hazards: Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, it is considered to be practically non-toxic if swallowed, no more than slightly toxic if absorbed through skin, slightly toxic if inhaled, non-irritating to skin and slightly irritating to eyes. Repeated exposure may cause an allergic skin reaction. Repeated or long-term exposure may cause adverse effects on the liver or thyroid.

Section 4. First Aid Measures

General: Have the product container, label or Material Safety Data Sheet with you when going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Skin contact: Wash with plenty of soap and water. Get medical attention if irritation persists.

Eye contact: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center for treatment advice.

Ingestion: Call a physician or poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation: Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.

Note to physician: No specific antidote. Treat symptomatically.

Section 5. Fire Fighting Measures

Flash point: NA

Flammable limits: LFL: Not determined. UFL: Not determined.

Autoignition temperature: Not determined.

Hazardous combustion products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing media: Use water spray, carbon dioxide, foam or dry chemical.

Protective equipment for firefighters: Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear and self-contained breathing apparatus. Fire fighting equipment should be thoroughly decontaminated after use.

Section 6. Accidental Release Measures

Personal precautions: Wear protective clothing and personal protective equipment as

prescribed in Section 8 “Exposure Controls/Personal Protection”. Keep unprotected persons and animals out of area.

Environmental precautions: Prevent spilled product from entering sewers or natural water. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

Method for cleaning up: Contain spill. Sweep or scoop up and remove to suitable container. Flush with water.

Section 7. Handling and Storage

Handling: Read the label before use. Keep out of reach of children. Harmful if swallowed. Causes skin irritation and sensitivity. Avoid contact with skin and clothing. After work, remove protective clothing and equipment, wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Clean up spilled material immediately, and wash clothes, equipment and work area after use.

Storage: Store in tightly closed original container in a cool, dry well-ventilated area out of direct sunlight when not in use. This product can be stored in an unheated building. Do not store with food, feed stuffs, fertilizers and seeds. See product label for further handling/storage precautions relative to the end use of this product.

Section 8. Exposure Controls/Personal Protection

Exposure limits: No exposure limits have been established for this material.

Engineering controls: Provide ventilation if necessary to control exposure levels.

Personal protective equipment (PPE):

Respiratory protection: Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply.

Skin protection: Wear rubber gloves.

Eyes and face protection: Where there is potential for eye contact, wear chemical goggles and have eye flushing equipment immediately available.

Section 9. Physical and Chemical Properties

Appearance: White to off-white liquid

Specific Gravity: 1.20 g/cm³ at 20°C

Flammability: Non-flammable

Behaviour in Water: Dispersible

pH: 6.8

Corrosiveness: None to HDPE

Section 10. Stability and Reactivity

Chemical stability: Stable under normal conditions.

Conditions to avoid: High temperatures, incompatible materials, excess heat.

Hazardous decomposition products: Nitride, sulfide and carbon dioxide.

Incompatible materials: Incompatible with pesticides alkaline in reaction or copper compounds.

Hazardous reactions: Hazardous polymerization will not occur.

Section 11. Toxicological Information

Eye Irritation: non- irritation

Skin Irritation: non- irritation

Acute oral LD₅₀(rat) ; >2150mg/kg

Dermal LD₅₀(rat): >5000mg/kg

Inhalation LC₅₀(rat, 4h) : 3.62 mg/L

Section 12. Ecological Information

96 hour LC₅₀, trout – 23.4mg/L

Oral LD₅₀, mallard - >4640mg/kg

48 hour LC₅₀ daphnia : 11.6mg/L

48hour LD₅₀ bee : > 100µg/bee (Honeybee 48 h)

Section 13. Disposal Considerations

Do not reuse containers. After bag is emptied, dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Section 14. Transport Information

DOT HAZARD CLASS OR

DIVISION .: Not Regulated

U.S. DOT PROPER

SHIPPING NAME: N/A

UN NUMBER: N/A

DOT PACKING GROUP: N/A

REPORTABLE QUANTITY: None

MARINE POLLUTANT: Not Listed

U.S. SURFACE

FREIGHT CLASS: Agricultural Fungicides,

Section 15. Regulator Information

Follow all regulations in your country.

Section 16. Other Information

MSD Issued Date : July, 2014

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Disclaimer

The Content given here in, are as per the declaration given by the manufacturer and EABCL Claims zero Responsibility.

ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail

CAS Number Chemical Abstracts Service Registry Number

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Prepared by: Register Department.