



Hangzhou Tianlong Biotechnology Co., Ltd.

Add: Room 1906, Fengqi Times Tower, No.338, Fengqi East Road, Hangzhou, Zhejiang, China.

MATERIAL SAFETY DATA SHEET

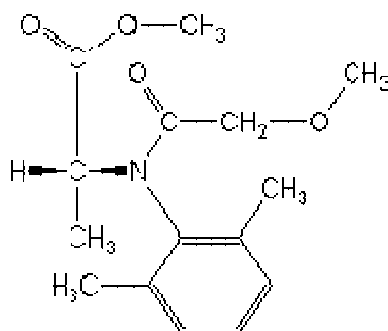
1. Chemical Product and company Identification

Product Name: Metalaxyl-M

Molecular Formula: C₁₅H₂₁NO₄

Molecular Weight: 279.30

Structural Formula:



Chemical Name: methyl *N*-(methoxyacetyl)-*N*-(2,6-xylyl)-Dalaninate; methyl (*R*)-2-[[[(2,6-dimethylphenyl) methoxyacetyl] amino]propionate (IUPAC)

CAS No.: 70630-17-0

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

Address: Room 1906, Fengqi Times Tower, No.338 Fengqi East Road, Hangzhou, China, 310020

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2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Metalaxyl-M	70630-17-0	90.0
Other ingredients		10.0

3. Hazards Summarizing

Symptoms of Acute Exposure: May cause eye irritation

Hazardous Decomposition Products: Can decompose at high temperature forming toxic gases

Unusual fire, Explosion and Reactivity Hazards: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

4. First Aid Measures

Ingestion: If swallowed, call a Poison control center or a Doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless to do so by a Poison Control center or Doctor. Do not give anything by mouth to an unconscious person.

Eye: If in eyes, Hold eye open and rinse slowly and gently with water for 15 –20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin: Wash affected area with plenty of soap and water for 15 – 20 minutes. Remove contaminated clothing. Launder contaminated clothing separately. Get medical attention.

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

Note to Physician: There is no specific antidote if this product is ingested. Treat symptomatically.

5. Fire-Fighting Measures

Fire and Explosion:

Flash point : >40 °C

Flammable Limits (% in Air): Not Available

Auto ignition Temperature: Not Available

Flammability: Combustible Liquid

Unusual Fire, Explosion and Reactivity Hazards: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In case of Fire: Use dry, chemical, foam or CO₂ extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. Accidental Release Measures

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 in protective equipment section. 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

Store the product in a well-ventilated, secure area out of reach of children and domestic animals. Do not use or store near heat or open flame. Do not store food, beverages, tobacco or feed in storage area. Prevent eating, drinking, smoking and cosmetic application in areas where there is a potential exposure to the product. Wash thoroughly with soap and water after handling.

8. Exposure Controls/Personal Protection

Applicable control measures, including engineering controls: Please refer to the product label for personal protective clothing/equipment.

Personal protective equipment for each exposure route:

Ingestion: Do not eat, drink, smoke or apply cosmetics in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

Eye Contact: To avoid eye contact, wear safety glasses with side shields or chemical goggles.

Skin Contact: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.

Inhalation: To avoid breathing dust, wear pesticide respirator with particulate prefilters. Select N or R or P type as appropriate for the oil characteristics of any other air contaminants present. Filter efficiency ranges from 95-99.7% as appropriate for the size distribution of dust present.

9. Physical and Chemical Properties

Appearance: Pale yellow to light brown, viscous liquid.

Melting Point: -38.7 °C

PH: 7 – 9 (1% solution in H₂O @ 25°C)

Vapour pressure and reference temperature- for Metalaxyl-M: 3.30E -03 Pa @ 25°C.

Vapour density: Not available

Specific gravity or density: 0.60g/cm³.

Evaporation Rate: Not applicable

Water/oil partition coefficient: Not available

Viscosity: Not applicable. Product is a solid

Solubility in water: 26.0 g/L @ 25°C. In n-hexane 59 g/l; miscible with acetone, ethyl acetate, methanol, dichloromethane, toluene, n-octanol.

10. Stability and Reactivity

Chemical stability: Stable under normal use and storage conditions.

Conditions to avoid: None known

Incompatibility with other materials: None known
Hazardous decomposition products: Can decompose at high temperatures forming toxic gases.
Hazardous polymerization: Will not occur

11. Toxicological Information

Acute toxicity-This product is unlikely to present a toxicity hazard normal use(WHO Hazard Class III)

Swallowed: Low toxicity

Tests on rates indicate the product is not harmful following single doses of undiluted product.

(LD₅₀=5000mg/kg)

Skin: Low toxicity

Tests on rates indicate the product is not harmful due to skin following single doses of undiluted product.

(LD₅₀>5000mg/kg)

Inhaled: Low toxicity

Tests on rates indicate the product is not harmful due to inhalation of undiluted product.

(LD₅₀(4hr)>5340 mg/m³ - highest attainable concentration)

Eye irritation (rabbits): Slight irritant.

Skin irritation (rabbits): Slight irritant.

Skin sensitization (Guinea pigs): Potential skin sensitiser.

Poisoning symptoms: No case of human poisoning due to this product is on record. The poisoning symptoms observed for laboratory mammals were non-specific and transient only. The same can be expected for humans.

Chronic: No evidence of mutagenic, teratogenic or reproductive effects was obtained.

12. Ecological Information

Practically non-toxic to birds in dietary exposure and slightly toxic in direct oral exposure. Non-toxic to bees. Non toxic to slightly toxic to aquatic invertebrates and fish. Slightly toxic to mammals

13. Disposal Considerations

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, provincial, and federal health and environmental guidelines.

14. Transport Information

Class: 9

UN No: 3082

Packaging Group III

15. Regulatory Information

Safety Phrases: Keep out of reach of children

Keep away from food, drink and animal feeding stuff

Do not breathe spray

When using do not eat, drink or smoke

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

In case of accident or if you feel unwell, seek medical advice immediately (Show the label where possible)

Use appropriate containment to avoid environmental contamination

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.