

COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

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SAFETY DATA SHEET

Emamectin Benzoate 3% + Thiamethoxam 12% WG

1. Product Identification

- **Product Name:** Emamectin Benzoate 3% + Thiamethoxam 12% WG
- **Formulation Type:** Water-Dispersible Granules (WG)
- **Chemical Class:** Avermectin derivative (Emamectin Benzoate) and Neonicotinoid (Thiamethoxam)
- **Intended Use:** Broad-spectrum systemic and contact insecticide for agricultural pest control
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

2. Hazard Identification

- **GHS Classification:**
 - Acute Toxicity, Oral: Category 4
 - Skin Sensitization: Category 1
 - Eye Irritation: Category 2A
 - Hazardous to the Aquatic Environment, Acute: Category 1
 - Hazardous to the Aquatic Environment, Chronic: Category 1
- **Signal Word:** Warning
- **Hazard Statements:**
 - H302: Harmful if swallowed
 - H317: May cause an allergic skin reaction
 - H319: Causes serious eye irritation
 - H410: Very toxic to aquatic life with long-lasting effects

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- **Precautionary Statements:**

- P261: Avoid breathing dust or spray
- P280: Wear protective gloves, clothing, and eye protection
- P273: Avoid release into the environment
- P302+P352: IF ON SKIN: Wash with plenty of water
- P501: Dispose of contents/container in accordance with local regulations

3. Composition and Information on Ingredients

- **Active Ingredients:**

- **Emamectin Benzoate (3%)**
 - CAS Number: 155569-91-8
 - Mode of Action: Affects the nerve and muscle function in insects, causing paralysis
- **Thiamethoxam (12%)**
 - CAS Number: 153719-23-4
 - Mode of Action: Systemic action targeting nicotinic acetylcholine receptors in pests

- **Inert Ingredients:** Up to 85%

4. First-Aid Measures

- **Inhalation:** Remove the affected person to fresh air. Seek medical attention if symptoms develop.
- **Skin Contact:** Remove contaminated clothing and wash affected area thoroughly with soap and water.
- **Eye Contact:** Rinse eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

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- **Ingestion:** Do not induce vomiting. Rinse mouth thoroughly. Seek immediate medical attention.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, foam, or carbon dioxide
- **Specific Hazards:** May produce toxic fumes of carbon monoxide, carbon dioxide, and nitrogen oxides when burned
- **Protective Equipment for Firefighters:** Wear self-contained breathing apparatus and full protective clothing

6. Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment (PPE) to avoid contact with skin and eyes
- **Environmental Precautions:** Prevent contamination of waterways and drains
- **Cleanup Methods:**
 - Collect spilled material mechanically
 - Place into properly labeled containers for disposal in accordance with local regulations

7. Handling and Storage

- **Handling:**
 - Avoid inhalation and contact with skin, eyes, and clothing
 - Wear appropriate protective equipment when handling
- **Storage:**
 - Store in a cool, dry, well-ventilated area
 - Keep away from direct sunlight and moisture

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- Store in original containers and keep tightly sealed
- **Shelf Life:** 2 years when stored under recommended conditions

8. Exposure Controls and Personal Protection

- **Occupational Exposure Limits:** No established exposure limits for this product
- **Engineering Controls:** Provide adequate ventilation to minimize dust exposure
- **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Use a dust mask in poorly ventilated areas
 - **Eye Protection:** Chemical-resistant safety goggles
 - **Hand Protection:** Chemical-resistant gloves
 - **Skin Protection:** Protective clothing (long sleeves and trousers)

9. Physical and Chemical Properties

- **Appearance:** Light brown or beige granular powder
 - **Odor:** Faint characteristic odor
 - **pH (1% solution):** 6.0–8.0
 - **Solubility:** Dispersible in water
 - **Bulk Density:** 0.5–0.8 g/cm³
 - **Melting Point:** Not applicable (mixture)
 - **Boiling Point:** Not applicable (mixture)
 - **Partition Coefficient (log Pow):**
 - Emamectin Benzoate: 4.2
 - Thiamethoxam: -0.13
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10. Stability and Reactivity

- **Chemical Stability:** Stable under normal storage conditions
 - **Conditions to Avoid:** Exposure to moisture, direct sunlight, and extreme temperatures
 - **Incompatible Materials:** Strong acids and oxidizing agents
 - **Hazardous Decomposition Products:** May release carbon monoxide, carbon dioxide, and nitrogen oxides under fire conditions
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11. Toxicological Information

- **Acute Toxicity:**
 - Oral LD50 (Rat): 200-300 mg/kg
 - Dermal LD50 (Rat): >2000 mg/kg
 - Inhalation LC50 (Rat, 4h): >1.0 mg/L
 - **Skin Irritation:** May cause mild skin irritation
 - **Eye Irritation:** Causes moderate to severe eye irritation
 - **Sensitization:** May cause skin sensitization
 - **Carcinogenicity:** No known carcinogenic effects based on available data
 - **Mutagenicity:** No mutagenic effects detected in standard tests
 - **Reproductive Toxicity:** No reproductive toxicity observed in animal studies
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12. Ecological Information

- **Aquatic Toxicity:**
 - Fish (96h LC50 - Rainbow trout): 0.005 mg/L
 - Daphnia Magna (48h EC50): 0.001 mg/L
 - Algae (72h EC50): 0.02 mg/L

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- **Bee Toxicity:** Highly toxic; avoid application during pollinator activity
- **Environmental Persistence:** Moderate degradation in soil
- **Bioaccumulation Potential:** Moderate for Emamectin Benzoate; Low for Thiamethoxam

13. Disposal Considerations

- **Product Disposal:** Dispose of waste in accordance with local environmental regulations
- **Container Disposal:** Rinse containers thoroughly and dispose of in accordance with national guidelines
- **Environmental Precautions:** Do not allow to enter waterways or soil

14. Transport Information

- **UN Number:** UN3077
- **Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (Emamectin Benzoate, Thiamethoxam)
- **Hazard Class:** 9 (Miscellaneous dangerous substances)
- **Packing Group:** III
- **Marine Pollutant:** Yes

15. Regulatory Information

- **U.S. EPA Registration:** Registered pesticide product
 - **EU Classification:** Toxic to aquatic organisms, may cause long-term adverse effects
 - **International Regulations:**
 - Compliant with REACH (EU)
 - Registered under FAO International Code of Conduct on Pesticide Management
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16. Other Information

- **Disclaimer:** The information provided is accurate to the best of our knowledge and based on current legislation and best practices. It is the responsibility of the user to ensure safe handling and compliance with local regulations.