

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

Pymetrozin 50% WG

1. Identification of the Substance/Preparation

- **Chemical Name:** 6-methyl-4-[(E)-pyridin-3-ylmethylideneamino]-2,5-dihydro-1,2,4-triazin-3-one
- **Empirical Formula:** C₁₀H₁₁N₅O
- **CAS Number:** 123312-89-0
- **Molecular Weight:** 217.23
- **Intended Use:** Insecticide
- **Pesticide Family:** Pyridine Azomethines
- **Manufacture/Supplier:** Cocreate Global Technologies Private Limited

2. Hazards Identification

- **Carcinogenicity, Category 2** (H351: Suspected of causing cancer)
- **Chronic Aquatic Toxicity, Category 3** (H412: Harmful to aquatic life with long-lasting effects)
- **Symptoms of Acute Exposure:** May cause eye, skin, and respiratory irritation; allergic reactions possible.
- **Fire/Explosion Hazards:** May form flammable dust-air mixtures, decomposes at high temperatures forming toxic gases.

3. Composition/Information on Ingredients

- **Active Ingredient:** Pymetrozine Technical (50.00% w/w)
- **Other Ingredients:** q.s. (up to 100% w/w)

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4. First-Aid Measures

- **Eye Contact:** Rinse eyes with clean water for 15-20 min, remove contact lenses after 5 min, seek medical attention if irritation persists.
 - **Skin Contact:** Remove contaminated clothing, wash skin thoroughly with soap and water.
 - **Inhalation:** Move victim to fresh air, seek medical help if breathing difficulties arise.
 - **Ingestion:** Do not induce vomiting; seek medical help immediately.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, or CO₂.
 - **Special Fire Hazards:** Emits toxic smoke on combustion; avoid direct exposure to fire fumes.
 - **Firefighter Protection:** Wear full protective clothing and self-contained breathing apparatus.
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6. Accidental Release Measures

- **Personal Protection:** Use gloves, protective clothing, and adequate ventilation.
 - **Environmental Precautions:** Avoid entry into water bodies, inform authorities in case of contamination.
 - **Clean-Up Methods:** Contain spill, collect material, wash area with detergent and water.
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7. Handling and Storage

- **Handling Precautions:** Avoid inhalation, ingestion, and skin contact; use protective gear.
 - **Storage Conditions:** Store in original container, in a **cool, dry, and well-ventilated area**, away from heat and sparks. Do not expose to temperatures above **40°C**.
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8. Exposure Controls/Personal Protection

- **Exposure Limits:**
 - Pymetrozine (CAS 123312-89-0): **0.8 mg/m³ TWA (GSP)**
 - Silica (CAS 61790-53-2): **4 mg/m³ TWA (WES)**
 - **Protective Equipment:**
 - **Eyes:** Chemical splash goggles.
 - **Skin:** Nitrile/butyl gloves, coveralls, chemical-resistant boots.
 - **Respiratory:** NIOSH-approved respirator in case of high airborne exposure.
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9. Physical & Chemical Properties

- **Appearance:** Beige to brown granules
 - **Odor:** Weak
 - **pH:** 7 - 11 (1% aqueous solution @ 25°C)
 - **Vapor Pressure:** 7.3×10^{-10} mmHg @ 20°C
 - **Water Solubility:** 270 mg/L @ 20°C
 - **Density:** 0.4-0.6 g/cm³ @ 25°C
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10. Stability and Reactivity

- **Chemical Stability:** Stable under normal storage conditions.
 - **Reactivity:** No dangerous reactions under normal conditions.
 - **Hazardous Decomposition Products:** None known.
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11. Toxicological Information

- **Acute Oral Toxicity (LD₅₀):** >5000 mg/kg (rat)
- **Acute Dermal Toxicity (LD₅₀):** >5000 mg/kg (rat)

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- **Acute Inhalation Toxicity (LC₅₀):** >3.09 mg/L (4 hours)
 - **Skin Irritation:** Slightly irritating (rabbit)
 - **Eye Irritation:** Minimally irritating (rabbit)
 - **Carcinogenicity:** Increased liver tumors in mice/rats at high doses.
 - **Reproductive Effects:** Developmental toxicity at high doses.
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12. Ecological Information

- **Biodegradability:** Not readily biodegradable
 - **Bioaccumulation:** Low potential (Log Pow = -0.18 @ 25°C)
 - **Soil Mobility:** Slightly mobile in soils
 - **Aquatic Toxicity:**
 - **Fish (LC₅₀, 96h):** >100 mg/L (rainbow trout)
 - **Daphnia (EC₅₀, 48h):** >100 mg/L
 - **Algae (EC₅₀, 96h):** >100 mg/L
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13. Disposal Considerations

- **Disposal Methods:** Dispose of according to local regulations; do not reuse empty containers.
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14. Transport Information

- **Classification:** Not regulated as a dangerous good (Road, Rail, Air, Sea).
 - **Marine Pollutant:** No
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15. Regulatory Information

- **WHMIS Classification:** Exempt
- **Other Regulations:** Follows WHMIS and other safety guidelines.

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16. Other Information

- **Disclaimer:** Information provided in good faith; users must conduct their own risk assessments.