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
Chlorantraniliprole Technical

1. Chemical Product and Company Identification

- **Product Name:** Chlorantraniliprole Technical
- **Chemical Name:** 3-Bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide
- **CAS Number:** 500008-45-7
- **Intended Use:** Insecticide for agricultural applications
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

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2. Hazard Identification

- **GHS Classification:**
  - Acute Aquatic Toxicity: Category 1
  - Chronic Aquatic Toxicity: Category 1
- **Signal Word:** Warning
- **Hazard Statements:**
  - Very toxic to aquatic life
  - Very toxic to aquatic life with long-lasting effects
- **Precautionary Statements:**
  - Avoid release into the environment
  - Collect spillage

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3. Composition/Information on Ingredients

- **Active Ingredient:** Chlorantraniliprole (≥95% purity)
- **Inert Ingredients:** Up to 5% (proprietary formulation additives)

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4. First-Aid Measures

- **Inhalation:** Remove victim to fresh air. If breathing difficulties occur, seek medical attention.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation develops.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting unless instructed by medical personnel. Seek immediate medical assistance.

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5. Fire-Fighting Measures

- **Extinguishing Media:** Use foam, dry chemical, carbon dioxide (CO_2), or water spray.
- **Hazards from Combustion:** May release toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides during combustion.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective gear.

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6. Accidental Release Measures

- **Personal Precautions:** Wear suitable protective clothing and equipment. Avoid contact with skin and eyes.
- **Environmental Precautions:** Prevent contamination of water bodies and drains. Contain spills immediately.

- **Methods for Cleanup:** Sweep up the material carefully, place it in a sealed container, and dispose of it according to local regulations.

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7. Handling and Storage

- **Handling:** Use personal protective equipment (PPE). Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling.
- **Storage:** Store in a cool, dry, well-ventilated area away from direct sunlight. Keep containers tightly closed. Temperature range: 2-10°C.

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8. Exposure Controls/Personal Protection

- **Engineering Controls:** Ensure adequate ventilation during handling.
- **Personal Protective Equipment (PPE):**
  - **Respiratory Protection:** Use an approved mask if dust levels are high.
  - **Hand Protection:** Chemical-resistant gloves (nitrile or rubber).
  - **Eye Protection:** Safety goggles or face shield.
  - **Skin Protection:** Protective clothing to minimize skin contact.

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9. Physical and Chemical Properties

- **Appearance:** Off-white crystalline powder
- **Odor:** Odorless
- **Melting Point:** 209°C
- **Solubility in Water:** Slightly soluble
- **Density:** 1.56 g/cm³
- **Partition Coefficient (log Pow):** 2.86
- **pH:** 7.5 (1% aqueous solution)

- **Vapor Pressure:** 1.5×10^{-8} Pa at 20°C

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10. Stability and Reactivity

- **Chemical Stability:** Stable under recommended storage conditions.
- **Conditions to Avoid:** Extreme temperatures, direct sunlight, and moisture.
- **Incompatible Materials:** Strong oxidizing agents and reducing agents.
- **Decomposition Products:** Carbon monoxide, carbon dioxide, and nitrogen oxides under combustion conditions.

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11. Toxicological Information

- **Acute Toxicity:**
  - Oral LD50 (Rat): >5000 mg/kg
  - Dermal LD50 (Rat): >5000 mg/kg
  - Inhalation LC50 (Rat, 4h): >5.1 mg/L
- **Skin Corrosion/Irritation:** Mild irritant
- **Eye Damage/Irritation:** May cause mild eye irritation
- **Respiratory or Skin Sensitization:** Not a sensitizer
- **Chronic Effects:** No data indicating mutagenicity, carcinogenicity, or reproductive toxicity

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12. Ecological Information

- **Aquatic Toxicity:**
  - Fish (96h LC50): >12 mg/L
  - Daphnia Magna (48h EC50): 0.0116 mg/L
  - Algae (72h EC50): >4 mg/L

- **Bird Toxicity:**
    - Oral LD50 (Bobwhite Quail): >2250 mg/kg
    - Dietary LC50 (Mallard Duck): >5620 mg/kg
- **Bioaccumulation Potential:** Low
- **Environmental Impact:** Very toxic to aquatic organisms with long-lasting effects

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13. Disposal Considerations

- **Waste Disposal:** Dispose of contents/container according to local, regional, and national regulations.
- **Packaging Disposal:** Triple-rinse containers and puncture after use. Dispose of properly according to environmental regulations.

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14. Transport Information

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

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15. Regulatory Information

- **US EPA Registration:** Listed
- **EU Classification:** Very toxic to aquatic life (Aquatic Chronic 1)
- **GHS Label Elements:**
    - Hazard Symbol:

- Signal Word: Warning

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16. Other Information

- **Disclaimer:** The information provided is accurate to the best of our knowledge but should not be considered a guarantee. Users are responsible for ensuring compliance with all relevant laws and regulations.