

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

Website: www.scimplify.com



SAFETY DATA SHEET

Fipronil 0.3% GR

1. Identification

- **Product Name:** Fipronil 0.3% GR
- **Common Name:** Fipronil
- **CAS Number:** 120068-37-3
- **Molecular Formula:** $C_{12}H_4Cl_2F_6N_4OS$
- **Molecular Weight:** 437.2 g/mol
- **Intended Use:** Insecticide
- **Supplier:** Cocreate Global Technologies Private Limited

2. Composition / Information on Ingredients

- **Active Ingredient:** Fipronil (0.3%)
- **Other Ingredients:** 99.7%

3. Hazards Identification

- **Hazard Classification:**
 - Acute toxicity, Category 4
 - Reproductive toxicity, Category 1B
- **Signal Word:** DANGER
- **Hazard Statements:**
 - **H302:** Harmful if swallowed.
 - **H360Df:** May damage the unborn child and suspected of damaging fertility.
- **Precautionary Statements:**
 - **P201:** Obtain special instructions before use.

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- **P280:** Wear protective gloves, clothing, and eye protection.
 - **P308 + P313:** If exposed or concerned, seek medical advice.
 - **Potential Exposure Routes:** Inhalation, ingestion, skin, and eye contact.
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4. First Aid Measures

- **Ingestion:** Seek immediate medical attention. **Do not induce vomiting.**
 - **Eye Contact:** Rinse with plenty of water for at least 15 minutes. Seek medical attention.
 - **Skin Contact:** Remove contaminated clothing and wash affected area with water.
 - **Inhalation:** Move to fresh air and seek medical attention if breathing is irregular.
 - **Advice to Physician:** No specific antidote. Treat symptomatically.
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5. Fire-Fighting Measures

- **Fire Hazard:** Not explosive under normal conditions.
 - **Suitable Extinguishing Media:**
 - Small fires: Water spray, alcohol-resistant foam, dry chemical, CO₂.
 - Large fires: Alcohol-resistant foam, water spray. **Avoid solid water streams.**
 - **Hazardous Combustion Products:** Produces **toxic fumes (CO, CO₂, NO_x)** under fire conditions.
 - **Protective Equipment:** Full protective clothing and self-contained breathing apparatus (SCBA).
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6. Accidental Release Measures

- **Personal Precautions:** Wear protective gloves, goggles, and long clothing.
- **Environmental Precautions:** Prevent contamination of waterways.
- **Cleanup Procedures:**
 - Absorb with sand or soil.

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- Shovel absorbed material into drums for disposal.
 - Decontaminate the spill area with detergent and rinse with minimal water.
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7. Handling and Storage

- **Handling:**
 - Avoid skin and eye contact.
 - Do not inhale mist or vapor.
 - Wash hands thoroughly after use.
 - **Storage:**
 - Keep in a tightly sealed original container.
 - Store in a **dry, secure location, away from food, feed, and fertilizers.**
 - **Protect from direct sunlight.**
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8. Exposure Control / Personal Protection

- **Engineering Controls:** Maintain good ventilation.
 - **Personal Protective Equipment (PPE):**
 - **Eye Protection:** Chemical splash goggles or face shield.
 - **Skin Protection:** Chemical-resistant gloves, coveralls, and apron.
 - **Respiratory Protection:** Use **NIOSH/MSHA-approved respirators** with a universal filter.
 - **General Hygiene Measures:** Wash hands after handling and before eating, drinking, or smoking.
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9. Physical and Chemical Properties

- **Appearance:** Pink granular solid
 - **Physical State:** Solid
 - **Density:** 1.477–1.626 g/mL (at 20°C)
 - **pH (1% solution):** 5.0–7.0
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10. Stability and Reactivity

- **Stability:** Stable under normal storage conditions.
 - **Conditions to Avoid:** Heat, moisture, strong oxidizing agents.
 - **Hazardous Decomposition Products:** May produce toxic gases at high temperatures.
 - **Polymerization:** Will not occur.
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11. Toxicological Information

- **Acute Toxicity:**
 - **Oral LD50 (Rat):** >1999 mg/kg
 - **Dermal LD50 (Rabbit):** >2000 mg/kg
 - **Inhalation LC50 (Rat):** >1.7 mg/L (4 hours)
 - **Skin Irritation:** Slightly irritating (Rabbit).
 - **Eye Irritation:** Slightly irritating (Rabbit).
 - **Sensitization:** Not a skin sensitizer.
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12. Ecological Information

- **Aquatic Toxicity:**
 - **Bluegill Sunfish LC50 (96h):** 0.083 mg/L
 - **Rainbow Trout LC50 (96h):** 0.246 mg/L
 - **Sheephead Minnow LC50 (96h):** 0.13 mg/L
 - **Water Flea (Daphnia) NOEL:** 9.8 µg/L
 - **Avian Toxicity:**
 - **Bobwhite Quail LD50:** >11.3 mg/kg
 - **Environmental Impact:** Toxic to aquatic life. **Avoid contamination of water bodies.**
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13. Disposal Considerations

- **Disposal of Product:**
 - Do not dispose of undiluted product in the environment.
 - Add rinsing water to spray tanks.
 - **Disposal of Containers:**
 - Triple rinse containers before disposal.
 - Dispose of containers in authorized landfill sites.
 - Do not burn empty containers.
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14. Transport Information

- **Shipping Name:** Environmentally Hazardous Substance, Liquid, n.o.s. (Fipronil)
- **UN Number:** 3082
- **Transport Class:** 9 (Miscellaneous Dangerous Substances and Articles)
- **Packing Group:** III
- **Marine Pollutant:** Yes

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15. Regulatory Information

- **Hazard Symbol:** ☠️ **Dangerous for the Environment (N)**
- **Risk Phrases:**
 - **R22:** Harmful if swallowed.
 - **R38:** Irritating to skin.
 - **R41:** Risk of serious eye damage.
 - **R43:** May cause sensitization by skin contact.
- **Safety Phrases:**
 - **S1/2:** Keep locked up and out of reach of children.
 - **S26:** In case of eye contact, rinse immediately with water and seek medical attention.
 - **S35:** Dispose of the material and its container safely.

16. Other Information

- **Disclaimer:**
 - The information in this MSDS is based on the current state of knowledge.
 - Users are responsible for ensuring proper handling and compliance with regulations.