

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



Material Safety Data Sheet

Chlorantraniliprole 0.4% Gr.

Manufacturer Information

FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout,

Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

1 chemical product identification

- Product Name: Chlorantraniliprole 0.4% m/m GR
- Technical Name: Chlorantraniliprole
- Molecular Formula: $C_{18}H_{14}BrCl_2N_5O_2$
- Molecular Weight: 483.1 g/mol
- Chemical Name: 5-bromo-N-[4-chloro-2-methyl-6-(methylcarbamoyl)phenyl]-2-(3-chloropyridin-2-yl)pyrazole-3-carboxamide
- Color: Dark Blue
- Odor: None
- CAS Number: 500008-45-7

2 Composition / Information on Ingredients

S. No.	Ingredients	%	CAS No.
1	Chlorantraniliprole	0.4% m/m	500008-45-7
2	Silicon dioxide, Amorphous	85 – 90% m/m	7631-86-9
3	Other Ingredients	9.6 – 14.6% m/m	Not specified

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3 Hazards Identification

Product Hazard Classification:

- Acute Aquatic Toxicity: Category 1
- Chronic Aquatic Toxicity: Category 1

Note: Endpoints that are not classified, cannot be classified, or are not applicable are not shown.

- Signal Word: Warning
- Hazardous Warnings: Very toxic to aquatic life with long-lasting effects.
- Precautionary Statements:
 - Collect spillage.
 - Dispose of contents/container to an approved waste disposal plant.

4 First Aid Measures

- General Advice: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
1. Inhalation:
 - Move to fresh air.
 - Artificial respiration and/or oxygen may be necessary.
 - Call a poison control center or doctor for treatment advice.
 2. Skin Contact:
 - Remove all contaminated clothing immediately.
 - Rinse skin thoroughly with plenty of water for 15-20 minutes.
 - Call a poison control center or doctor for treatment advice.
 3. Eye Contact:
 - Hold the eye open and rinse slowly and gently with water for 15-20 minutes.
 - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye.

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- Call a poison control center or doctor for treatment advice.

4 Ingestion:

- Do not induce vomiting unless specifically directed by medical personnel.

Offer the person water to sip if they can swallow.

Call a poison control center or doctor for advice.

5 Most Important Symptoms/Effects, Acute and Delayed:

- Currently, no information is available.

6 Protection of First-Aiders:

- Currently, no information is available.

7 Notes to Physician:

- Currently, no information is available.

5. Firefighting Measures

• Suitable Extinguishing Media:

- Water spray
- Foam
- Dry chemical
- Carbon dioxide (CO₂)

• Specific Hazards:

- No information available.

• Special Protective Equipment for Firefighters:

- In the event of a fire, wear self-contained breathing apparatus.
- Use personal protective equipment.

• Specific Extinguishing Methods:

- No information available.

• Further Information:

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- For small fires, if the area is heavily exposed to fire and conditions permit, let the fire burn itself out since water may increase contamination in the area.
- Cool containers or tanks with water spray.

6. Accidental Release Measures

- Personal Precautions, Protective Equipment, and Emergency Procedures:
 - Avoid breathing dust.
- Environmental Precautions:
 - Prevent further leakage or spillage.
 - Do not flush into surface water or sanitary sewer systems.
 - Do not allow material to contaminate groundwater systems.
- Methods and Materials for Containment and Cleaning Up:
 - Clean up promptly by scoop or vacuum.
 - Shovel into a suitable container for disposal.
- Additional Advice:
 - Never return spills to the original containers for reuse.

7. Handling and Storage

Handling

- Technical Measures/Precautions:
 - Wash hands before breaks and immediately after handling the product.
 - Remove and wash contaminated clothing before re-use.
- Precautions for Safe Handling:
 - No information available.

Storage

- Suitable Storage Conditions:
 - Store the product in its original container only in a location inaccessible to children and pets.
 - Do not contaminate water, other pesticides, fertilizers, food, or feed during storage.

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8. Exposure Controls / Personal Protection

Engineering Measures:

- Use only with adequate ventilation.

Biological Occupational Exposure Limits:

- No information available.

Personal Protective Equipment:

1. Respiratory Protection:

- Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with a dust/mist cartridge.

2. Hand Protection:

- Material: Protective gloves.

9. Physical and Chemical Properties

- Appearance (Physical State, Form, Colour, etc.):
 - Physical State: Solid
 - Form: Granules
 - Colour: Blue
- Odour: None
- Odour Threshold: No information available
- pH: 7 – 8.5
- Melting Point/Freezing Point: No information available
- Initial Boiling Point and Boiling Range: No information available
- Flash Point: No information available
- Evaporation Rate: No information available

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- Flammability (Solid, Gas): No information available
- Upper/Lower Flammability or Explosive Limits:
 - Upper Explosion Limit: No information available
 - Lower Explosion Limit: No information available
- Vapour Pressure: No information available
- Vapour Density: No information available
- Density: 1.3 g/cm³
- Solubility(ies):
 - Water Solubility: No information available
- Partition Coefficient: n-Octanol/Water: No information available
- Auto-Ignition Temperature: No information available
- Decomposition Temperature: No information available

10. Stability and Reactivity

Chemical Stability:

- Stable under normal temperatures and storage conditions.

Possibility of Hazardous Reactions:

- Polymerization will not occur.

Conditions to Avoid:

- No information available.

Materials to Avoid:

- None reasonably foreseeable.

11. Toxicological Information

Acute Toxicity:

- Oral Chlorantraniliprole:
 - LD50/Rat: > 5,000 mg/kg

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- Inhalation Chlorantraniliprole:
 - LC50/4 h/Rat (dust/mist): > 5.1 mg/l
- Dermal Chlorantraniliprole:
 - LD50/Rat: > 5,000 mg/kg

Skin Corrosion/Irritation:

- Chlorantraniliprole:
 - Species: Rabbit
 - Result: No skin irritation
 - Classification: Not classified as irritant

Serious Eye Damage/Eye Irritation:

- Chlorantraniliprole:
 - Species: Rabbit
 - Result: No eye irritation
 - Classification: Not classified as irritant
 - Minimal effects that do not meet the threshold for classification.

Respiratory or Skin Sensitisation:

- Chlorantraniliprole:
 - Species: Multiple species
 - Result: Did not cause sensitisation on laboratory animals.
 - Classification: Not a skin sensitizer

Germ Cell Mutagenicity:

- Chlorantraniliprole:
 - Animal testing did not show any mutagenic effects.
 - Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity:

- Chlorantraniliprole:
 - Animal testing did not show any carcinogenic effects.

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- Not classifiable as a human carcinogen.

12. Ecological Information

Ecotoxicity Effects:

1. Acute and Prolonged Toxicity to Fish (Chlorantraniliprole):
 - LC50/96 h/Oncorhynchus mykiss (Rainbow trout): > 13.8 mg/l
 - LC50/96 h/Ictalurus catus (Catfish): > 13.4 mg/l
 - LC50/96 h/Lepomis macrochirus (Bluegill sunfish): > 15.1 mg/l
2. Toxicity to Aquatic Plants (Chlorantraniliprole):
 - ErC50/72 h/Selenastrum capricornutum (Green algae): > 2 mg/l
3. Acute Toxicity to Aquatic Invertebrates (Chlorantraniliprole):
 - EC50/48 h/Daphnia magna (Water flea): 0.0116 mg/l

Persistence and Degradability:

- No information available.

Bioaccumulation:

- No information available.

Mobility in Soil:

- No information available.

Other Adverse Effects:

- No information available.

13. Disposal Considerations

Waste Disposal Methods:

- Dispose of waste in accordance with local and national regulations.
- The product should not be allowed to enter drains, water courses, or the soil.

Contaminated Packaging:

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- Do not reuse empty containers.
- Dispose of containers in accordance with local and national regulations.

14. Transport Information

- Classification: Not classified as dangerous in the meaning of transport regulations.

IMDG (International Maritime Dangerous Goods Code):

- UN Number: Not applicable
- UN Proper Shipping Name: Not applicable
- Transport Hazard Class: Not applicable
- Packing Group: Not applicable
- Hazchem Code: Not applicable
- Marine Pollutant: Not applicable

IATA (International Air Transport Association):

- UN Number: Not applicable
- UN Proper Shipping Name: Not applicable
- Transport Hazard Class: Not applicable
- Packing Group: Not applicable

Special Precautions:

- Not applicable.

15. Regulatory Information

- Regulations:
 - The product is subject to regulatory requirements under the Indian Insecticides Act, 1968, and the Indian Insecticides Rules, 1971.

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16. Other Information

Sources of Key Data Used to Compile the Safety Data Sheet:

1. The Factories Act, 1948:
 - The Second Schedule: Permissible levels of certain chemical substances in the work environment, as amended through April 2001.
2. Manufacture, Storage, and Import of Hazardous Chemical Rules, 1989:
 - As amended through January 2000.

Disclaimer:

- The information provided in this Safety Data Sheet (SDS) is correct to the best of knowledge, information, and belief as of the date of its publication.
- The information is designed solely as a guide for safe handling, use, processing, storage, transportation, disposal, and release.
- It should not be considered a warranty or quality specification.
- The information pertains specifically to the material described and may not be valid for its use in combination with other materials, processes, or if altered or processed, unless specified in the text.