



ULINK AGRITECH PRIVATE LIMITED
MATERIAL SAFETY DATA SHEET : RAPIGEN GR

1: IDENTIFICATION

Chemical Name	3-bromo-N-[4-chloro-2-methyl-6-(methylcarbamoyl)phenyl]-1-(3-chloro-2-pyridinyl)pyrazole-5-carboxamide		
Synonyms	DPX-E2Y45 - 0.4%GR; Chlorantraniliprole 0.4 % gr	Trade Name	RAPIGEN GR
Uses	Insecticide	Molecular Formula	C ₁₈ H ₁₄ BrCl ₂ N ₅ O ₂
Manufacturer/ Supplier	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra		
Emergency Contact	9503095030	E-mail	info@agrostar.in

2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Chlorantraniliprole	500008-45-7	0.4 %
Silicon dioxide, amorphous	7631-86-9	85 - 90%
Other ingredients	-	9.6 - 14.6%

3: HAZARD IDENTIFICATION

Hazard Classification: Acute aquatic toxicity : Category 1 Chronic aquatic toxicity : Category 1

Human Health Hazard Safety, health and environmental regulations specific for the product in question

Environmental Hazard H410: Very toxic to aquatic life with long lasting effects. H400 Very toxic to aquatic life

4: FIRST AID MEASURES

General: Have the product container, label or safety data sheet while seeking medical attention, a poison control center or physician, or going for treatment. First aid personnel should wear appropriate protective equipment during any rescue.

Inhalation: Move patients to fresh air and keep warm and at rest in a position comfortable for breathing. Treat respiratory difficulty with artificial respiration and oxygen. Immediately seek medical attention if symptoms are severe or persist

Ingestion: Rinse mouth with water thoroughly and give plenty of water to drink. Do not induce vomiting unless directed by a doctor or a poison control center. Seek medical attention or poison control center immediately and show this container or label.

Skin Contact: In case of contact with product, gently wipe excess product and wash immediately skin area with plenty of water and soap. Remove and isolate contaminated clothing and shoes. Seek medical attention if irritation persists.

Eye Contact: Rinse immediately with plenty of water for several minutes. After 5 minutes remove contact lenses if present and continue rinsing with plenty of water. Continue to rinse with eyelid wide open for at least 15-20 minutes. Seek medical attention if irritation develops.

Note to Physician: No specific Antidote. Treat symptomatically.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide

Unsuitable Extinguishing Media: Solid water stream, as it may scatter and spread the fire

Specific Hazards: In case of fire, dense black smoke containing hazardous products of combustion can be released and exposure to these decomposition products may be a hazard to health.

Hazardous Thermal (de)composition: No hazardous decomposition products are known.

Special Procedures: Collect extinguishing water separately and do not discharge into the drain or water bodies. If risk of water pollution occurs, notify appropriate authorities. Move containers away from area if it can be done without risk. If possible without risk, remove containers from fire zone, cool them with water spray. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Protection of Fire Fighters: Do not breathe fumes, Wear fire/flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection..

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing. Use personal protective equipment.

Environmental Precaution: Do not allow runoff to enter drains and public waters. Notify the authorities if product enters.

Methods for Cleaning-up: Clean up mechanically by sweeping or shovelling and collect in suitable container for disposal. Carefully collect remainder. Minimise generation of dust. Wash contaminated area with large amounts of water and detergent.

7: HANDLING & STORAGE

Handling: Do not smoke, drink, or eat during handling. Wash hands and other exposed areas with mild soap and water before and after handling material. Wear protective equipment to avoid contact and/or inhalation with the product. Wash clothing and equipment before reuse. Good personal hygiene procedures must be practiced.

Specific Conditions: Good local exhaust ventilation. Avoid dust formation.

Storage: Store in dry, cool, well-ventilated area. Keep in original container and tightly closed when not in use. Keep product away from seeds, fertilizer, foods and animal feeds.

8:EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

General Protection: Avoid breathing dust, vapours or aerosols. Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Personal Protection: Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

Respiratory Protection: Respiratory protection not required. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Use NIOSH/MSHA approved respiratory protection equipment with dust/mist cartridge where airborne concentrations are expected to exceed exposure limits.

Skin Protection: Wear suitable protective clothing, including long sleeved shirt, long pants, gloves, coveralls, chemical-resistant boots, and chemical-resistant headgears to avoid skin contact.

Hand Protection: Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC) or Viton.

Eye Protection: Safety glasses with side-shields. Safety showers and eyewash should be easily available.

Others: Wash clothing before reusing.

9:PHYSICAL/CHEMICAL PROPERTIES

Appearance : Granules	pH : 5.0-9.0 (1% dilute solution)	Physical State: Solid	Melting Point [°C]: Not Applicable
Colour: Blue	Bulk Density[g/cc]: 1.25– 1.40	Odour: Mild pungent	Solubility in Water: No data available

10:STABILITY & REACTIVITY

Stability: Stable under normal circumstances. **Conditions to Avoid:** No decomposition if used as directed, however may decompose if heated.

Hazardous Decomp. Products: No hazardous decomposition products known under conditions of normal use.

Materials to Avoid: None reasonably foreseeable.

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : >5000	Rat inhalation LC50 [mg/l/4h] : >5.1	Skin irritation (rabbit): Non-irritant
Dermal (rat) LD50 [mg/kg] : >5000	Skin Sensitization (Guinea Pig): Non-sensitizer	Eye irritation (rabbit): Non-irritant

12: ECOLOGICAL INFORMATION

Ecotoxicity:

Rainbow trout LC50 (96 hrs)[mg/L]: >13.8 **Daphnia magna EC50(48 hrs) [mg/L]:** >0.0116 **Algae EC50 (72 h) [mg/L]:** > 2

Bio-accumulation Potential: No Bioaccumulation potential

Persistence, Degradability and Mobility in Soil: High to very high persistence. Moderately mobile

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: Dispose of this product only according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated Packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the product. Do not reuse the empty container

14: TRANSPORT INFORMATION

UN No. 3077 **Proper Shipping Name:** Environmentally Hazardous Substance, Solid N.O.S (Chlorantraniliprole)

Land Transport (ADR/RID): Class-9, Packing Group-III

Sea Transport (IMO/ IMDG): Class-9, Packing group-III, Marine Pollutant-Yes

Air Transport (IATA/ICAO): Class-9 Packing group-III, Environmental hazard mark-Yes

15: REGULATORY INFORMATION

Hazard Symbol: GHS09

H- Statement: H400, H410

Safety, health and environmental regulations specific for the product in question

16: OTHER INFORMATION

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