

**MATERIAL SAFETY DATA SHEET**

PRODUCT : Chlorantraniliprole 18.5% SC

PRODUCT DESIGNATION : Insecticide

Section 1. Product & Company Identification

Common Name	: Chlorantraniliprole
Grade	: Formulation
Active Ingredient	: Chlorantraniliprole
Chemical Name of Active Ingredient (IUPAC)	: 3-bromo-N-[4-chloro-2-methyl-6[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide
Chemical Family of A. I.	: Insecticide
Molecular Formula of A. I.	: C ₁₈ H ₁₄ BrCl ₂ N ₅ O ₂
Molecular Mass of A. I.	: 483.15g/mol
Manufacturer & Supplier	: M/s Solas Cromptech Private Limited Head office: 36, Strand Road, 4th Floor, Room No-01, Kolkata-700001
Telephone Number	: (033) 2231-3306

Section 2. Composition / Information on Ingredients

<u>Name of Components</u>	<u>Concentration% w/w</u>
Chlorantraniliprole a.i.	18.50%w/w
Other ingredients	81.50%w/w
<u>TOTAL</u>	<u>100.00% w/w</u>



Section 3. Hazards Identification

Emergency Overview: When used as directed, this product does not present a hazard to humans or domestic animals.

Potential Health Effects: May cause transient eye irritation with tearing, pain or blurred vision.

Section 4. First Aid Measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact: Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact: Rinse with water. Get medical attention if irritation develops and persists.

Ingestion: Rinse mouth. Get medical attention if symptoms occur.

Notes to physician

Treatment: Treat symptomatically

Section 5. Fire Fighting Measures

Suitable extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing: Do not use water jet as an extinguisher, as this will spread the fire media

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for fire fighters

Fire fighting equipment/instructions: Use water spray to cool unopened containers.

Specific methods: Use standard fire fighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.



Section 6. Accidental Release Measures

Safeguards (Personnel) : Evacuate personnel to safe areas. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Wear suitable protective equipment. **Spill Cleanup :** Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. **Accidental Release Measures :** Prevent material from entering sewers, waterways, or low areas. Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

Section 7. Handling & Storage

Handling (Personnel): wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Storage: Store in original container. Keep containers tightly closed in a cool, wellventilated place. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home. Keep out of the reach of children.

Section 8. Exposure Control, Personal Protection

Engineering controls : Use only with adequate ventilation.

Personal protective equipment

Respiratory protection : See skin and body protection

Hand protection : Additional protection: See skin and body protection

Eye protection : See skin and body protection **Skin and body protection :** Applicators and other handlers must wear: Long sleeved shirt and long pants Shoes plus socks **Applicators and other handlers of the diluted material must wear:** shirt, pants, socks and shoes. **Personal protective equipment required for early entry:** Long sleeved shirt and long pants Shoes plus socks

Protective measures : Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.



Section 9. Physical and Chemical Properties

Appearance / state	: Liquid suspension
Colour	: White
Odour	: Alcohol-like odour
pH	: 5-9 at 10g/l
Density	: 1.08 – 1.10
Water solubility	: Slight soluble
Oxidising Substance	: The product is not oxidising

Section

10. Stability & Reactivity

Chemical Stability : Product is stable at ambient temperature.

Materials to Avoid : Do not mix or store this product in galvanised or unlined steel containers (except stainless steel)

Hazardous Decomposition Product : None

Hazardous Polymerisation : Do not occur

Section 11. Toxicological Information

Acute Oral Toxicity LD₅₀ for rats : >5000mg/kg

Acute Dermal Toxicity LD₅₀ Rabbit : >5000 mg /kg

Acute Inhalation LC₅₀ (4h) for male and female rats : >2.0mg/l

Eye Irritation Rabbit: Non irritant

Skin Irritant Rabbit : Non irritant

Skin sensitization Guinea pig :Not a skin sensitizer

Section 12. Ecological Information

The ecotoxicity of the product is measured as: -

Fish Rainbow trout (*Oncorhynchus mykiss*) 96-h LC₅₀: > 9.9 mg/l

- Invertebrates Daphnids (*Daphnia magna*) 48-h EC₅₀: 0.035 mg/l

- Algae Green algae (*Pseudokirchneriella subcapitata*) 72-h ErC₅₀: > 20 mg

- Birds Bobwhite quail (*Colinus virginianus*) LD₅₀: > 2000 mg/kg



- Earthworms *Eisenia fetida* 14-day LC50: > 1000 mg/kg
- Insects Bees 48-h LD50, contact: g/bee μ > 541 48-h LD50, oral: g/bee μ > 541

Section 13. Disposal Consideration

Waste Treatment Methods : Keep out of drains, sewers, ditches and waterways. Left-over material that should not be used or chemically reprocessed and should be disposed of in a landfill approved for pesticide disposal. Other possible methods of disposal are controlled incineration with flue gas scrubbing.

Container Disposal: For Plastic Containers: Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. For Metal Containers (non aerosol): Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures.

Section 14. Transport Information

IMDG Classification

Shipping name : Environmentally hazardous Substance, liquid, n.o.s.
(Chlorantraniliprole)

Class : 9

Packing group : III

UN number : 3082

Marine pollutant : Yes

Section 15. Regulatory Information

Precautionary statement Prevention Avoid release to the environment.

Response Collect spillage.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 16. Other Information



All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.

Safety Division : SOLAS CROPTech PRIVATE LIMITED, SAFETY DIVISION