

1: IDENTIFICATION

Chemical Name	4-bromo-2-(4-chlorophenyl)-1-ethoxymethyl-5-trifluoromethylpyrrole-3-carbonitrile		
Synonyms	Chlorfenapyr 10% SC	Trade Name INSPYR	
Uses	Insecticide	Molecular Formula	C ₁₅ H ₁₁ BrClF ₃ N ₂ O
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)
Chlorfenapyr	122453-73-0	10.00%
Inert Ingredients	-	Q.S

3: HAZARD IDENTIFICATION

Classification of the Substance or Mixture : Acute Tox. 3 (oral) Acute Tox. 4 (Inhalation - mist)
 STOT SE (Central nervous system) 2 STOT RE (Central nervous system) 2
 Aquatic Acute 1 Aquatic Chronic 1 M-factor acute: 100 M-factor chronic: 100
 H330, H301, H371, H373, H400, H410

According to UN GHS Criteria - Hazard Determining Component(s) for Labelling: Chlorfenapyr

4: FIRST AID MEASURES

General: First aid personnel should pay attention to their own safety. Have the product container, label or Safety Data Sheet while seeking medical attention, a poison control center or physician, or going for treatment.

Inhalation: Move patients to fresh air. Keep the patients warm and at rest. If person is not breathing then give artificial respiration. Allow patients to rest. Immediately seek medical attention.

Ingestion: Rinse mouth with water and give plenty of water to drink. Do not induce vomiting unless told by doctor. Do not give anything by mouth to an unconscious person. Seek medical attention immediately and show this container or label.

Skin Contact: In case of contact with product, wash immediately skin area with plenty of water and soap. Speed in removing material from skin is extremely important. Remove and isolate contaminated clothing and shoes. Call medical attention.

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 (decontamination, vital functions).

5: FIRE FIGHTING MEASURES

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

Unsuitable Extinguishing Media: Water jet

Specific Hazards: The product can burn in fire, irritating and toxic gases of carbon monoxide, carbon dioxide, hydrogen bromide, hydrogen chloride, hydrogen fluoride, nitrogen oxides, sulfur oxides, silica compounds, halogenated compounds, aluminum compounds due to thermal decomposition or combustion may release.

Special Procedures: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. In case of fire and/or explosion, do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

Protection of Fire Fighters: Do not breathe a fumes, Wear self-contained breathing apparatus and chemical-protective clothing.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate spillage area. Avoid breathing fume. Use personal protective equipment as required. Evacuate personnel to safe areas, away from spill/ fumes.

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

Methods for Cleaning-up: For small amounts : Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). For large amounts: Dike spillage. Pump off product. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents. Dispose of absorbed material in accordance with local regulations. Wear suitable protective equipment.

7: HANDLING & STORAGE

Handling: No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. Do not smoke, drink, or eat during handling. Wash hands using liquid detergent. Wear protective clothing to avoid contact and/or inhalation with the product. Good personal hygiene procedures must be practiced.

No special precautions necessary against fire and explosion. The substance/product is non-combustible and non-explosive.

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. Keep away from heat. Protect from direct sunlight. Storage temperature range : > 0 °C to < 40 °C

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Ensure area is well-ventilated, especially confined area. Handle in accordance with good industrial hygiene and safety practice.

General Protection: Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist. Elbow-length PVC gloves and face shield. 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: Always use NIOSH/MSHA approved respiratory protection equipment with combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles.

Skin Protection: Wear suitable protective clothing, including boots, gloves, lab coat, apron or cover all, as appropriate to avoid skin contact. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

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 goggles, chemical splash goggles or face shield for eyes protection should be used. Safety showers and eyewash should be easily available.

Others: Wash clothing before reusing.

9: PHYSICAL/CHEMICAL PROPERTIES

Appearance : Liquid	Odour : faint odour, bitter almond-like	pH : 6 - 8	Physical State: Liquid
Colour: Off-white	Boiling Point [°C]: ~ 100		Melting Point [°C]: ~ 0
Solubility in Water: No data	Auto-Ignition Temperature [°C]: ~520		Density [g/cc]: 1.07

10: STABILITY & REACTIVITY

Stability: Stable upto 60 months under normal circumstances. **Conditions to Avoid:** Direct sunlight. Temperature below 0°C and above 40°C

Hazardous Decomp. Products: No hazardous decomposition products if stored and handled as prescribed/indicated

Materials to Avoid : Strong acids, strong bases, strong oxidizing agents

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : 50 - < 300	Rat inhalation LC50 [mg/l/4h] : 2.62	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

Cyprinus carpio LC50 (96 hrs) mg/L: 0.463 Daphnia magna EC50 (48 hrs) mg/L: 0.0407

Pseudokirchneriella subcapitata EC50 (72 hrs) mg/L: 126 (growth rate)

Bio-accumulation Potential: The product has not been tested

Persistence, Degradability and Mobility in Soil: The product has not been tested

Results of PBT and vPvB Assessment : The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: Dispose of this product only according to the label or must be sent to a suitable incineration plant, observing local regulations Do not contaminate drains, streams, rivers or waterways with the chemical or used container.

Contaminated Packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14: TRANSPORT INFORMATION

UN No. 2902 **Proper Shipping Name:** PESTICIDE, LIQUID, TOXIC, N.O.S. (CHLORFENAPYR)

Land Transport (ADR/RID): Class -6.1, EHSM, Packing group - III, Environmental hazards - Yes, Tunnel code - E

Sea Transport (IMO/IMDG): Class -6.1, EHSM, Packing group - III, Marine Pollutant-Yes, EmS: F-A; S-A

Air Transport (IATA/ICAO): Class -6.1, EHSM, Packing group - III, Environmental hazards - No

15: REGULATORY INFORMATION

Hazard Symbol: GHS06, GHS08, GHS09

H-statement : H332, H301, H371, H373, H400, H410

To avoid risks to man and the environment, comply with the instructions for use.

16: OTHER INFORMATION

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