

Date: Jun.9th, 2025

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company

Identification Product Name: Chlorfenapyr TC

Common Name: Chlorfenapyr Chemical Name

(IUPAC):

4-Bromo-2-(4-chlorophenyl)-1-(ethoxymethyl)-5-(trifluoromethyl)-1H-pyrrole-3-carbonitrile

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Section 2. Composition/Information on

Ingredients Component CAS Number Content

(%)

Component	CAS Number	Content
Chlorfenapyr	122453-73-0	Min 96.0
Inerts	Not applicable	Balance to 100

Section 3. Hazards Identification

Harmful by inhalation, in contact with skin and if swallowed.

Section 4. First Aid Measures

Inhalation Over-exposure by inhalation is improbable. Check for other causes of observed symptoms and seek medical advice.

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Ingestion If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre. Make every effort to prevent vomit from entering the lungs by careful placement of the patient. These instructions are suitable for ingestion of spray solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the concentrate have been swallowed (more than about 10ml) AND if medical assistance is more than 30 minutes away, the induction of vomiting should be CONSIDERED, preferably based on MEDICAL ADVICE if a physician can be contacted by phone. All care must be taken to prevent vomit from being inhaled. Do not give anything by mouth to a semi-conscious or unconscious person.

Skin Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

Eye If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice.

First Aid Facilities If poisoning occurs, contact a doctor or Poisons Information Centre

Section 5. Fire Fighting Measures

Extinguishing Media If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material. Avoid using large volumes of water which would spread the product.

Specific Hazards Considered low risk due to water content, however upon evaporation of water the product is combustible.

Hazardous Combustion Products If involved in a fire, the dehydrated components may emit oxides of carbon and nitrogen, halogenated hydrocarbons (F, BR, Cl) and hydrogen cyanide.

Emergency Action in case of Fire If exposed to fire, keep container cool by spraying with water.

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Protective Equipment Breathable air apparatus should be worn when fighting a fire in which chlorfenapyr is involved.

Other Information Prevent fire water from entering drains or water bodies.

Section 6. Accidental Release Measures

Spills & Disposal Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal.

Personal Protection For appropriate personal protective equipment (PPE), refer Section 8.

Environmental Precautions Prevent from entering drains, waterways or sewers. Use earthen bunds or absorbent bunding to prevent spreading of spillage.

Section 7. Handling and Storage

Handling Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.

Storage Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

Section 8. Exposure Controls/Personal Protection

Exposure Limits No exposure standards have been set for this product.

Respiratory Protection Do not inhale spray mist.

Personal Protective Equipment When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.

Eng. Controls Handle in well ventilated areas, generally natural ventilation is adequate. **Hygiene Measures** After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

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Requirements Concerning Special Training NSW regulations require that people who use pesticides in their job or business must have training in the application of the materials. By 1st September, 2005 all users must have received such training.

Section 9. Physical and Chemical Properties

Appearance: Off-white powder

Odour: No characteristic odour

Melting point: 101–102 °C; Boiling point: 444°C

Corrosion properties: Non-corrosive

Vapour pressure: $<1.2 \times 10^{-2}$ mPa (20 °C)

Solubility in water and organic solvents: In water 0.14 mg/l (pH 7, 25 °C). In hexane 0.89, methanol 7.09, acetonitrile 68.4, toluene 75.4, acetone 114, dichloromethane 141 (all in g/100 ml, 25 °C).

pH (acidity/alkalinity): 5.0-9.0

Section 10. Stability and Reactivity

Stability Stable under normal conditions.

Hazardous Polymerization Hazardous polymerisation is not possible.

Hazardous Reaction Keep away from strong oxidising agents.

Section 11. Toxicological Information

Acute Oral Toxicity: Acute oral LD50 for male rats 441, female rats 1152mg/kg

Acute Dermal Toxicity: Acute dermal LD50 for rat >2000 mg/kg

Acute Inhalation Toxicity: LC50 for rats 1.9 mg tech./l air.

Skin Irritation: Non-irritating to skin (rat)

Eye Irritation: Moderately-irritating to eye (rat)

Skin sensitization: Non-sensitizing to skin (Guinea pig)

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Section 12. Ecological Information

Known Harmful Effects on the Environment May adversely affect mite predators and

other beneficial organisms.

Other Precautions Do not spray on vegetation where honeybees are foraging. Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.

Persistence /Degradability Soil adsorption Koc 10,000 - 15,000 mg/kg. In water, half life for chlorfenapyr is 4.8 - 7.5 days.

Acute Toxicity - Fish The following is data for the active ingredient, chlorfenapyr. Toxic to fish. LC50 (96hr) for rainbow trout is 0.00744 mg/l. LC50 (96 hr) for bluegill sunfish is 0.011 mg/l.

Acute Toxicity –Daphnia LC50 (48 hr) for daphnia is 0.00611 mg/l for chlorfenapyr. **Acute Toxicity – Other Organisms** The following data is for the active ingredient, chlorfenapyr.

LD50 for mallard duck is 10 mg/kg

LD50 for bobwhite quail is 34 mg/kg

Bees: Toxic to bees. LD50 0.2 µg/bee.

Section 13. Disposal Considerations

Product Disposal On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemCollect).

Container Disposal Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. Drum MUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the

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label on your container carries the drumMuster symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Section 14. Transport Information

U.N. Number None Allocated

DG Class None Allocated

Hazchem Code None Allocated

Packing Group None Allocated

Storage and Transport Considered non dangerous for transport.

UN Number (Sea Transport) 2588

IMO Class/Packing Group Class 6.1; Packing Group: III

IMO Proper Shipping Name ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S.(contains chlorfenapyr)

Section 15. Regulator Information

Risk Phrase R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Safety Phrase S13 Keep away from food,drink and animal feeding stuffs. S2 Keep out of reach of children. S46 If swallowed, seek medical advice immediately and show this container or label.

Poisons Schedule S6 Hazard Category Harmful

Packaging &Labelling POISON; KEEP OUT OF REACH OF CHILDREN; READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Section 16. Other Information

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