

1: IDENTIFICATION

Chemical Name	Chlorpyrifos: O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate Cypermethrin : (RS)-a-cyano-3-phenoxybenzyl(1RS, 3RS; 1RS,3SR)-3- (2,2-dichlorovinyl)-2,2-dimethylcyclo propane carboxylate		
Synonyms	Chlorpyrifos 50% + Cypermethrin 5% EC		
Uses	Insecticide		
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)
Chlorpyrifos	2921-88-2	50.0%
Cypermethrin	52315-07-8	5.0%
Other	QS

3: HAZARD IDENTIFICATION

Physical/Chemical Hazard:	Acute oral toxicity, Category 3 Aquatic Chronic 1: H410	Aquatic Acute 1: H400
Environmental Hazard:	Very toxic to aquatic organisms, may cause long term adverse effects in aquatic environment	

4: FIRST AID MEASURES

General: Remove victim from polluted area. Place in the recovery position. Remove contaminated clothing. Dispose in a safe manner.
Inhalation: Remove victim to fresh air. Keep the victim warm. Allow victim to rest. Immediately get medical attention.
Ingestion: Rinse mouth. Do not induce vomiting. 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. In contact with eyes flush with plenty of water for at least 20 minutes. Remove and isolate contaminated clothing and shoes. Call medical attention.
Eye Contact: Rinse immediately with plenty of water. After 5 minutes remove contact lenses if present. Rinse again 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. Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. Treat symptomatically. Contains petroleum distillate - vomiting may cause aspiration pneumonia.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water fog. Alcohol resistant foam. Dry chemical powder. Carbon Dioxide
Unsuitable Extinguishing Media: Do not use water jet, as this may spread the fire.
Hazardous Thermal (de)composition: Harmful and toxic vapours/gasses
Special Procedures: Do not discharge extinguishing water into the environment. Move containers away from area if it can be done without risk. If possible remove containers from fire zone, cool them with water spray
Protection of Fire Fighters: Wear a self contained breathing apparatus. Wear suitable protective gloves and eye/face protection.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with spilled products or contaminated surfaces. Do not eat, drink or smoke.
Environmental Precaution: Prevent entry to sewers and public waters. Notify the authorities if product enters sewers or public waters.
Methods for Cleaning up: Clean up any spills as soon as possible, using an absorbent material to collect it. Collect spilled material in sealed containers. Remove according to national or local legislation clean the polluted area. Do not dump into the sewer, On the ground or into any body of water.

7: HANDLING & STORAGE

Handling: General precautions: 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. Eliminate all sources of ignition from areas where the material is handled or used. Good personal hygiene procedures must be practiced.
Specific Conditions: Good local exhaust ventilation. Full face protective mask.
Storage: The packages containing the insecticide shall be stored in separate room or premises away from the rooms or premises used for storage of the food articles or shall be kept in separate almirahs under lock and key depending on the quantity and the nature of the insecticide.

8:EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Minimize airborne concentration.

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 a universal filter type including particle filter.

Skin Protection: Suitable protective clothing. Long-sleeve shirt, long pants, shoes plus socks.

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

Specific Gravity [g/cc] : 1.13 to 1.15

Physical State: Liquid

Colour: Light yellow

Odour : Aromatic

Flash Point [°C]: Above 43°C

Solubility in Water: Emulsifiable

Acidity: 0.30% max

10:STABILITY & REACTIVITY

Stability: Stable for 2 years under normal circumstances

Materials to Avoid: Strong oxidizers

Conditions to Avoid: Avoid storage in moist or hot conditions and near of heat and ignition sources

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : > 800

Rat inhalation LC50 [mg/l/4h] : > 5

Dermal (rat) LD50 [mg/kg] : > 4,000

Skin irritation (rabbit): Non irritant.

Eye irritation (rabbit): Non irritant.

12: ECOLOGICAL INFORMATION

Ecotoxicity

Chlorpyrifos + Cypermethrin - LD50 -Bee, Apis indica : >38 mg/Bee

Chlorpyrifos+Cypermethrin EC50 (48 h)Daphnia:0.00034 mg/l

Chlorpyrifos+Cypermethrin-LC50(96h) Bluegill Sunfish [mg/l] : 0.21

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: Dispose of this product only by using according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Add rinsing's to spray tank.

Contaminated Packaging: (1) Rinse containers before disposal. Add rinsing's to the spray tank. DO NOT dispose of undiluted chemicals onsite. (2) Dispose of rinsed, empty containers at a local authority landfill. If no landfill is available, dispose as per the guidelines of regulatory authorities.

14: TRANSPORT INFORMATION

UN No. 3017 **Proper Shipping Name:** ORGANOPHOSPHORUS PESTICIDES, LIQUID, TOXIC, FLAMMABLE

Land Transport (ADR/RID): Class-6.1, Packing Group-III, Hazard Label-6.1,

Sea Transport (IMO/IMDG): Class-6.1, Packing group-III, Marine Pollutant-Yes

IATA: Class-6.1, Packing group-III, Environmental hazard mark-Yes

15: REGULATORY INFORMATION

Hazard Symbol: GHS06, GHS09

H- Statement: H301, H312, H330, H400, H410

16: OTHER INFORMATION

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