

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

Product name: Chlorpyrifos 25%+Abamectin 1.5% EC

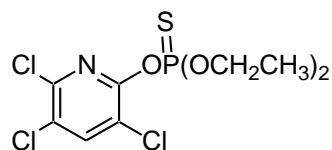
Chemical name:

Chlorpyrifos: O, O-diethyl O-(3, 5, 6-trichloro-2-pyridinyl) phosphorothioate

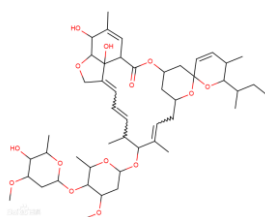
Abamectin: 5-O-demethylavermectin A_{1a} (i) mixture with 5-O-demethyl-25-de(1-methylpropyl)-25-(1-methylethyl) avermectin A_{1a} (ii)

Structural formula:

Chlorpyrifos:



Abamectin:



CAS No.:

Chlorpyrifos: 2921-88-2

Cypermethrin: 71751-41-2



SECTION 2: COMPOSITION AND INGREDIENT INFORMATION

Chlorpyrifos	25%
Cypermethrin	1.5%
Others add up to	1000 g/l

SECTION 3: HEALTH HAZARD INFORMATION

Emergency overview: Harmful by inhalation and if swallowed. Irritate to eyes and skin. May be cause sensitization by skin contact.

SECTION 4: FIRST AID MEASURES

Ingestion: Do not induce vomiting. Remove by gastric lavage and catharsis. Maintain blood pressure and airway. Give oxygen if respiration is depressed. Do not perform gastric lavage if victim is unconscious. Get medical attention immediately. Administration of gastric lavage or oxygen should be performed by qualified medical personnel.

Eyes: In case of eye contact, check for and remove any contact lenses. Immediately irrigate eyes with plenty of running water for at least 20 minutes, keeping eyelids open. Seek immediate medical attention.

Skin: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

Inhalation: Remove victim to fresh air. Keep victim warm and at rest. If breathing is difficult: Give oxygen. If not breathing: apply artificial respiration. Immediately get medical attention.



SECTION 5: FIRE AND EXPLOSION INFORMATION

Extinguishing media:

In case of a small fire: Dry chemical, carbon dioxide.

In case of a large fire: Water spray or alcohol resistant foam.

Hazards from combustion products: CO, CO₂, SO_x, NO_x, PO_x, HCl, chlorides and sulfides.

Fire fighting instructions: Fight fires from a protected location. Dike fire control water for later disposal. Keep container cool by spraying with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. Do not breathe in fumes. Wear full protective clothing.

In case of spill or leak:

In the event of minor spillage: Absorb in sand or other inert material. Use appropriate containment to avoid environmental contamination.

In the event of major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

SECTION 7: HANDLING AND STORAGE

Handling: Do not breathe fumes. Avoid contact with skin and eyes.

Storage: Keep locked up. Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place. Keep container dry. Keep away from strong bases. Keep away from sources of ignition.



SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ventilation required. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

Personal protective equipment:

Respiratory system: During spraying wear suitable respiratory equipment.

Skin and body: Wear suitable protective clothing.

Hands: Wear suitable gloves.

Eyes: Safety goggles or face shield.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Odor: Characteristic

SECTION 10: STABILITY AND REACTIVITY INFORMATION

Stability: Stable under normal conditions of handling and storage.

Conditions to avoid: Protect from (sun) light and excessive heat. Avoid temperatures above 75 °C.

Hazardous decomposition: CO, CO₂, SO_x, NO_x, PO_x, HCl, chlorides and sulfides.

Incompatible hazardous: Strong oxidizing agents, strong acids, strong bases.

Hazardous polymerization: Has not been reported.

SECTION 11: TOXICOLOGICAL INFORMATION

For Chlorpyrifos technical:

Oral: Acute oral LD₅₀ for rats 135-163, guinea pigs 504, rabbits 1000-2000 mg/kg.

Skin and eye: Acute percutaneous LD₅₀ for rabbits >5000 mg/kg; (tech.) for rats >2000 mg/kg.

Inhalation: LC₅₀ (4-6 h) for rats >0.2 mg/l (14 ppb).

For Abamectin technical

Oral: LD₅₀ = 316 mg/kg (rats)

Dermal: LD₅₀ > 2000 mg/kg (rats)

Inhalation: LC₅₀ > 2.0 mg/l air (4 h, rats)

Skin: Moderately irritant to rabbit skin.

Eye: Moderately to rabbit eye.

Sensitization: None.

SECTION 12: ECOLOGICAL INFORMATION

For Chlorpyrifos technical:

Birds: Acute oral LD₅₀ for mallard ducks 490, house sparrows (*Passer domesticus*) 122, chickens 32-102 mg/kg. Dietary LC₅₀ (8 d) for bobwhite quail 423 ppm.



Fish: LC₅₀ (96 h) for bluegill sunfish 0.002-0.010, rainbow trout 0.007-0.051, roach 0.25, fathead minnow 0.12-0.54 mg/l.

Daphnia: LC₅₀ (48 h) 1.7 mg/l.

Algae: NOEC for *Selenastrum capricornutum* >0.4 mg/l.

Bees: Toxic to bees. LD₅₀ (oral) 360 ng/bee; (contact) 70 ng/bee.

Worms: LC₅₀ (14 d) for *Eisenia foetida* 210 mg/kg soil.

For Abamectin technical

Birds: Acute oral LD₅₀ for mallard ducks 84.6, bobwhite quail >2000 mg/kg.

Fish: LC₅₀ (96 h) for rainbow trout 3.2, bluegill sunfish 9.6 µg/l.

Daphnia: EC₅₀ (48 h) 0.34 ppb.

Algae: (72 h) for *Pseudokirchneriella subcapitata* >100 mg/l.

Bees: Toxic to bees.

Worms: LC₅₀ (28 d) for earthworms 28 mg/kg soil.



SECTION 13: DISPOSAL CONSIDERATIONS

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

SECTION 14: TRANSPORT INFORMATION

UN No.: 3082

Class: 9

PG: III

SECTION 15: REGULATORY INFORMATION

Not applicable.

SECTION 16: OTHER INFORMATION

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein. Buyer assumes all responsibility for safety and use not in accordance with the product label instructions.