

Material safety data sheet

Cypermethrin 5 % EC

1. IDENTIFICATION OF COMPANY & PRODUCT

Product Name	: Cypermethrin 5% EC
Chemical Name	: (RS)-Alpha-Cyano-3-phenoxybenzyl (1, RS)-cis Trans-3-(2, 2-dichlorovinyl)-2, 2-dimethyl cyclopropane Carboxylate.
Brand Name	:
Users	: Insecticide
Molecular Formula	: C ₂₂ H ₁₉ Cl ₂ NO ₃
Manufacturer	: Cocreate Global Technologies Private Limited
Address	: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Cas #	Percent Or Content(W/v)
Cypermethrin Tech based on 92% w/w a.i.	52315078	5.000 % w/v
Adjuvants	---	95.000 % w/v

3. HEALTH HAZARDS IDENTIFICATION

Symptoms of Poisoning

Accidental ingestion or large quantities could produce tumors, anxieties and weakness of limbs, nervousness convulsion and allergic manifestation.

Skin	: Coetaneous parenthesis may occur including numbness, itching, burning, tingling and warmth.
Eyes	: Mild irritant.
Inhalation	: May cause, after heavy exposure, hypersensitivity, ataxia, urinary incontinence.
Ingestion	: May cause hypersensitivity, ataxia, and urinary incontinence.
Other information	: - ---
Physical/chemical	
Effects	: Flammable product.
Environmental effects	: Toxic to aquatic organism.

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4. FIRST AID MEASURES

Skin contact	: Remove all contaminated clothes and shoes. Wash off immediately with soap and plenty of water (15 - 20 minutes). Get medical attention if irritation persists.
Eye contact	: Rinse immediately with plenty of water and seek medical advice.
Inhalation	: Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.
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.
Other information	: Treat symptomatically and supportively
Antidote	: If ingested, take the patient to hospital and give gastric lavage with care to prevent aspiration. Give symptomatic and supportive treatment. Administer antihistamine in case of allergic symptoms occur. Phenobarbital may be used to control nervous symptoms. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash point : 47°C or 63°C

Extinguishing media : Dry chemical, carbon dioxide, water spray or standard foam.

Unsuitable Extinguishing: High pressure water jet media

Special exposure Hazards: Do not release chemically contaminated water into drains, soil and surface waters.

Special protective: As for all fires involving chemicals: chemical protection suit, suitable gloves for fire-fighters and boots, and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions : Use personal protective equipment's.

Method of Cleaning up: Do not touch spilled material. Stop leak if you can do it without risk. For small spills, take up with sand or other absorbent material and place into containers for later disposal. Move containers from spill area. For larger spills, dike far ahead of spill for later disposal. Keep unnecessary people away. Isolate hazard area and deny entry. Ventilate closed space.

Environmental Precautions : Prevent contamination of water.

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7. HANDLING AND STORAGE

Handling	: Keep product in original tightly closed container. Avoid exposure by inhalation. Do not eat, drink or smoke when handling. Wash hands before eating, drinking or smoking.
Storage	: Keep in a cool dry place in original packing store under lock and key. Keep out of reach of children. Do not store near foodstuff. Poultry and domestic animals. Do no load with foodstuff while transportation? Check that containers are sound and labels undamaged before dispatch.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection	: Wear splash proof or dust resistant safety goggles and face shield.
Hand protection	: Rubber impermeable gloves
Respiration	: Wear an air respirator or self-contained breathing apparatus impervious clothes so as to avoid skin contact.
Skin and body Protection	: Wear overalls and closed footwear.
Ventilation	: Provide local exhaust or general dilution ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid
Colour	: Light Yellow
Emulsion Stability	: Stable emulsion for 24 hours (No creaming and no sedimentation)
Acidity (As H₂SO₄)	: 0.05% max.
Solubility	: Give emulsion with water
Stability	: Stable at room temperature for 2 years
Compatibility	: Compatible with non –alkaline pesticides
Odour	: Mild odour.

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Acidity as H₂SO₄ : Not > 0.15 w/w
Boiling point / range : 155 - 180°C
Melting point / range: Not applicable.
Flash point : 61°C
Flammability : Flammable/ > 61°C
Auto ignition : 47°C
Oxidizing properties : None
Vapor pressure : -2.3 x 10⁻⁴ m pa (20°C)
Density : 0.95 at 20°C
Water solubility : Emulsifies in water

10. STABILITY AND REACTIVITY

Stability : Stable for 2 years under optimum condition of storage.
Conditions to avoid : No special precautions other than good housekeeping of chemicals.
Material to avoid : Strong oxidizing agents
Hazardous Decomposition : Thermal decomposition products may emit toxic fumes of Hydrogen cyanide and oxides of carbon and nitrogen.
Incompatibility with Other Material : Incompatible with alkaline pesticides

11. TOXICOLOGICAL INFORMATION

LD50 Acute Oral : Rat = 321.64 mg/kg b.w.
: Mice = 269.92 mg/kg b.w.
LD50 Acute Dermal : Rat = >2000 mg/kg b.w.
: Rabbit = 2500 mg/kg b.w.
LD50 Acute Inhalation: Rat = 3.5 mg/lit. Air
Skin Irritation : Rabbit = Slight irritation
Eye Irritation : Rabbit = Slight irritation
Skin Sensitization : Weak skin sensitizer.

CHRONIC TOXICITY

2 Years study in Rat NOEL: 7.5mg/kg
2 Years study in dog NOEL: 5mg/kg

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12. ECOLOGICAL INFORMATION

Bees	Toxic to bees
Birds	Bobwhite Quail LC50 = >20,000 ppm Mallard Duck LD50 Oral = >4640 mg/kg
The Aquatic Organisms (Pitch, Daphnia, Algae	Daphnia Magna LD50 = >0.0002 mg/lit Blue-Green Algac (Nostoc linckia) LC50 (20H)=20,000 ug/lit.
	Fishes Bluegill Sunfish LD50 (96H) = 0.0018 mg/lit Rainbow Trout LD50 (96H) = 0.0082 mg/lit

13. DISPOSAL CONSIDERATIONS

Pesticide disposal	: Burn in high temperature incinerator with effluent scrubbing or bury in a specially designated landfill. Always dispose of in accordance with local regulations
Container disposal	: Contaminated packaging material should be treated as the product.

14. TRANSPORT INFORMATION

UN No.	2902
IMCO Class	: 6.1
IMDG PG	6219
Packing Group	III
Proper Shipping Name	: Pyrethroid pesticide, liquid, toxic, flammable (Cypermethrin 5% Aromatic solution)
Environmental risk	: Marine pollutant

15. REGULATORY INFORMATION

Hazard Symbol	: The harmful symbol (Xn)
Risk phrases	: R10, R20/22, R43 R51/53, and R57
Safety Phrases	: S1/2, S13, S20/21, S36/37/39, S29/56

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16. OTHER INFORMATION

Cypermethrin is a pyrethroid pesticide of moderate toxicity to mammals. It is readily absorbed from the gastrointestinal tract.

The information contained in this safety data sheet is given in good faith. It is accurate to our best of knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation. Cocreate Global Technologies Private Limited will not be liable for any claims or damages arising out of use of this information.