



MATERIAL SAFETY DATA SHEET

PRODUCT : Cypermethrin 10% EC

PRODUCT DESIGNATION : Insecticide

Section 1. Product & Company Identification

Common Name : Cypermethrin 10% EC

Grade : Formulation

Active Ingredient : Cypermethrin

Chemical Name of Active Ingredient (IUPAC) : (RS)-a-cyano-3-phenoxybenzyl (IRS, 3RS; IRS, 3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropane carboxylate

Chemical Family of A. I. : Pyrethroid, Insecticide

Molecular Formula of A. I. : $C_{22}H_{19}Cl_2NO_3$

Molecular Mass of A. I. : 416.3 g/mol

Manufacturer & Supplier : **M/s PERFECT SOLUTIONS**
Office Add: B-371, Paschim Vihar, New Delhi - 110063 (India)
Factory Add: 15/1, 15/2, 15/3 Industrial Estate, Vidisha - 464001 (M.P)
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Telephone Number :

Section 2. Composition / Information on Ingredients

Identity	% W/W content
Cypermethrin Tech. (based on 92% w/w a.i.)	10.87 % w/w
Emulsifier Mixture of ethylene oxide Condensate of alkyle phenol & Sulphonated alkyl benzene	10.00 % w/w
Solvent Xylene	63.88% w/w
Cyclohexanone	15.25 % w/w
Total	100.00 % w/w



Section 3. Hazards Identification

Emergency Overview

Warning Statements: Keep out of reach of children

Skin: Remove all contaminated clothes and shoes. Wash off immediately with soap and plenty of water (15 - 20 minutes). Get medical attention if irritation persists.

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.

Section 4. First Aid Measures

Emergency and First Aid Procedure –

If in Eyes: Wash with copious amount of water. Avoid exposing affected eyes to bright light.

If on Skin: Remove contaminated clothing and clean the affected skin area. First, soak up any liquid remaining on the skin with readily disposable material wash the affected area with warm water and alkaline soap.

If Inhaled: If inhaled, remove to fresh air and keep at rest. Obtain medical aid if require

If Swallowed: If the material was swallowed and signs of toxicity are severe, induce Vomiting. In the event of collapse, apply artificial respiration.

Section 5. Fire Fighting Measures

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

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

Section 6. Accidental Release Measures



Personal Precaution: Personnel handling this material should be thoroughly trained to handle spills and releases. Wear appropriate gear for the situation.

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: Do not flush to drain. If spilled on the ground, the affected area should be scraped and placed in an appropriate container for disposal. Prevent material from entering public sewer system or any water way.

Section 7. Handling & 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 not load with foodstuff while transportation? Check that containers are sound and labels undamaged before dispatch.

Section 8. Exposure Control, Personal Protection

Personal Protection: Wash hands thoroughly after handling. Do not breathe mist or vapours. Use personal protective equipment as required.

Protective Gloves: Wear chemical resistant nitrile gloves

Eye Protection: Wear safety goggles with imperforated side shield and face shield

Skin Protection: Avoid contact with skin. Wear apron, boots and full protective suit.

Engineering Control: Mechanical ventilation should be used when handling this product in closed spaces.

Section 9. Physical and Chemical Properties

Appearance / state	:	Viscous yellow liquid
Odour	:	Mild odour
Colour	:	Light yellow colour



Boiling point	:	155-180 °C
Vapour pressure	:	-2.3 x 10 ⁻⁴ mPa (20 °C)
pH	:	4 – 6
Degradation point	:	220 °C
Density	:	.95 at 20 °C
Flash Point	:	61 °C
Solubility	:	Emulsifies in water

Section 10. Stability & 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.

Incompatible materials: Incompatible with alkaline pesticides.

Hazardous decomposition products: Thermal decomposition products may emit toxic fumes of Hydrogen cyanide and oxides of carbon and nitrogen.

Section 11. Toxicological Information

Acute Oral Toxicity- LD ₅₀	rat: 320 mg/kg b.w.
Acute Dermal Toxicity- LD ₅₀	rat: >2000 mg/kg b.w
Acute Inhalation - LD ₅₀	rat: 3.5 mg/l Air
Eye Irritation	Irritant to eyes
Skin Irritation	Slight irritating

Section 12. Ecological Information

Toxicity to Fishes	8.2 µg/l
Toxicity to daphnia	0.20 µg/l
Toxicity to Bees	80 µg/bee
Toxicity to Birds	Bobwhite quail : 20,000 mg/kg b.w

Section 13. Disposal Consideration

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.

Section 14. Transport Information

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Toxic substances under the applicable, ICAO/IATA, IMO, ADG.

IMDG Classification

Shipping name : Pyrethroid pesticide, liquid, toxic, flammable
(Cypermethrin 25% Aromatic solution)

Class : 6.1

Packing group : III

UN number : 3351

Marine pollutant : Yes

Section 15. Regulatory Information

Hazards Symbol : Xn

Risk phrases : R10, R20/22, R43 R51/53, R57

Safety phrases : S1/2, S13, S20/21, S36/37/39, S29/56

Section 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 work place risk as required by other health and safety legislation. PERFECT SOLUTIONS will not be liable for any claims or damages arising out of use of this information.

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