



UPL Limited
(Estate India) Private Limited

UPL LIMITED

CYPERMETHRIN 25 EC

MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL NATURE

PRODUCT : Cypermethrin 10 EC – Agricultural Insecticide
CHEMICAL NAME: a-cyano (3-phenoxyphenyl) methyl-cis, Trans-3-(2, 2-dichloroethyl)-2, 2-Dimethylcyclopropanecarboxylate.
CHEMICAL FAMILY: Parathyroid
CHEMICAL FORMULA: $C_{22}H_{19}Cl_2NO_3$
MOLECULAR WEIGHT: 416.3

SECTION 2 – COMPOSITION, INFORMATION OF INGREDIENTS COMPONENT

	Percent Purity	CAS NO.	OSHO PEL	ACIGH TLV
Cypermethrin	25%	52315-07-8	not listed	not listed
Other ingredients like Emulsifiers & solvents	75%			

SECTION 3 – HAZARDS IDENTIFICATION SUMMARY

Emergency Overview

Yellowish brown coloured, odorless liquid.
Thermal decomposition may form toxic gasses.
For larger exposures or fire, wear personal protective equipments.
Highly toxic to fish and aquatic organisms.
Keep away from drains and water sources.

Potential Health Hazards:

Harmful if inhaled or swallowed. Dust, mist or vapor irritating to eyes and respiratory tract. May cause skin irritation. May cause temporary itching, tingling, burning or numbness of exposed skin, called parenthesis.



UPL Limited
(Estate India) Private Limited

UPL LIMITED

CYPERMETHRIN 25 EC

SECTION 4 – FIRST AID MEASURES

IF INHALED: Remove person from exposure area to fresh air. Give artificial respiration, preferably mouth to mouth. If not breathing difficulty or discomfort occurs or persists get medical attention.

IF ON SKIN: Take off contaminated clothing. Wash skin with plenty of soap and water.

IF SWALLOWED: Do not induce vomiting unless told to do so. Immediately contact physician, Poison Control or an emergency center before inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES: Hold eye open and rinse with plenty of water for 15 to 20 minutes. If irritation continues, call a doctor.

ANTIDOTE: Give symptomatic treatment as per symptoms and cause.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT - Not auto flammable

EXTINGUISHING MEDIA: Use dry chemicals. Foam, CO₂ or dry chemical. Soft stream of water fog only if needed.

FIRE AND EXPLOSION HAZARD: Slightly combustible. Material may not support combustion at elevated temperatures.

FIRE FIGHTING EQUIPMENT: Isolate fire area. Evacuate down wind. Wear self-contained breathing apparatus pressure and protective gears. Do not smoke gasses or vapor generated.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, Carbon Monoxide, Dry chemicals.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, observing precautions. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Vacuum or sweep up material and place in properly labeled disposal container. Dike to confine spill and absorb with non-combustible absorbent like clay, sand or soil. Vacuum shovel or pump waste in to drum and label contents for disposal. Large spills may be neutralized with dilute solutions of soda ash or with appropriate alcohol. After removal, flush contaminated area thoroughly with water. Do not allow any material to run off in soil, drainage systems or bodies of water. Notify and consult with proper regulatory authorities.



UPL Limited
(Estate India) Private Limited

UPL LIMITED

CYPERMETHRIN 25 EC

SECTION 7 – HANDLING AND STORAGE

GENERAL PROCEDURES: Store in a cool dry, well ventilated place in original container away from children and animals. Keep away from food, animal feed, other pesticides fertilizers and drinking water. Prevent eating, drinking tobacco use and cosmetic application in areas where there is a potential for exposure to the material.

SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROL: Use local exhaust ventilation at all processes locations where vapor or mist may be emitted. Ventilate all transport vehicles prior to unloading.

EYE AND FACE PROTECTION - Safety goggles or face shield. Storing facility should be equipped with eye wash facility and safety shower.

CLOTHING – Long sleeved shirt and long pants, shoes plus socks, chemical resistant headgear for overhead exposures.

GLOVES – Wear waterproof gloves.

USER SAFETY RECOMMENDATIONS – Wash hands before eating, drinking, and chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change in to clean clothing.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Yellowish brown coloured, odorless liquid.

ODOR: Odorless

CHEMICAL FORMULA: $C_{22}H_{19}Cl_2NO_3$

MOLECULAR WEIGHT: 416.3

pH: 4.47

DENSITY: 0.9307

SECTION 10 – STABILTY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Not known.

MATERIALS TO AVOID: Strong oxidizing agents

HAZARDOUS POLYMERISATION: Product will not undergo polymerizatio



UPL Limited
(Estate India) Private Limited

UPL LIMITED

CYPERMETHRIN 25 EC

SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	Oral LD ₅₀ (rat)	310.2 mg/kg body weight
	Dermal LD ₅₀ (rat)	1026.66 mg/kg body weight
	Inhalation LC ₅₀ (rat)	2.063 mg/l of air
	Eye Irritation (rabbit)	Irritant
	Skin Irritation (rabbit)	Non irritant
	Sensitization (guinea pig)	Moderate-sensitizer

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Summary –

Acute oral LD₅₀ – Japanese quail >2000mg/kg.

Cypermethrin is highly toxic to fish.

Toxicity to Honey bees – LC₅₀ 0.0009%

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste – Dispose of in accordance with applicable Federal, State, local laws and regulations.

Container – Do not re-use the container. Dispose of empty containers in a sanitary landfill or incineration so as to avoid environmental or water pollution.

SECTION 14 – TRANSPORT INFORMATION

IATA / Air Transport :-

Proper Shipping Name – Pyrethroid pesticide, liquid, toxic (Cypermethrin 10 EC)

UN No. – UN 3352

Packaging Class and Group – 6.1 and III



UPL Limited
(Estate Insect Pesticides Limited)

UPL LIMITED

CYPERMETHRIN 25 EC

SECTION 15 - MANUFACTURE'S / SUPPLIER'S DATA

Name of Firm: UPL LIMITED

Mailing: UNIPHOS HOUSE, MADHU PARK,
KHAR (WEST), MUMBAI-400 52.
MAHARASHTRA (INDIA)

Manufacturing Site

UPL Limited,
3101/2, GIDC,
Ankleshwar- 393002

Tel. 0091-22 - 2640 1111

Fax 0091-22- 2640 1010

Local Bodies Involved

Gujarat, India

SECTION 16 - DISCLAIMER

The Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties, of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is however ensured that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold as the case may be by us. **UPL Limited** makes no warranty expressed or implied in respect of the adequacy of this document for any particular purpose.

Date: 14/09/2014