

MATERIAL SAFETY DATA SHEET

PRODUCT : Alpha-Cypermethrin 10% SC

PRODUCT DESIGNATION : Insecticide

Section 1. Product & Company Identification

Common Name : Alpha-Cypermethrin 10% SC

Grade : Formulation

Active Ingredient : Alpha-Cypermethrin

Chemical Name of Active Ingredient (IUPAC) : [Cyano-(3-phenoxyphenyl)methyl]3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropane-1-carboxylate

Chemical Family of A. I. : Pyrethroid

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

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

Manufacturer & Supplier : M/s United Chemicals
Head Office: B-371, 1st Floor, Meera Bagh, New Delhi, India
Factory: 15/1, 15/2, 15/3, industrial Area, Vidisha, M.P

Telephone Number : +91-11-25258770

Section 2. Composition / Information on Ingredients

Name of Components	Concentration% w/w
Acephate a. i.	75.00% w/w min.
Other Ingredients	25.00% w/w min.
Total	100.00% w/w

Section 3. Hazards Identification

Eyes : This product may cause slight irritation to eyes.

Skin : This product may cause paresthesia.

Ingestion : Harmful if swallowed.

Inhalation : No hazard in normal use. Product is unlikely to cause any discomfort or irritation.

Environment : Very toxic to aquatic organisms, may cause longterm adverse effects in the aquatic environment.

Section 4. First Aid Measures

Contact with eyes : Rinse immediately with plenty of water keeping eyelids open. Seek medical advice and show the container or this material safety data sheet.

Contact with skin : Immediately remove contaminated clothing and footwear and flush skin with plenty of water. Wash affected area thoroughly with soap and water as soon as possible.

Ingestion : Do not induce vomiting. Immediately rinse mouth then drink plenty of water. Seek medical attention immediately.

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

Section 5. Fire Fighting Measures

Contact with eyes : Rinse immediately with plenty of water keeping eyelids open. Seek medical advice and show the container or this material safety data sheet.

Contact with skin : Immediately remove contaminated clothing and footwear and flush skin with plenty of water. Wash affected area thoroughly with soap and water as soon as possible.

Ingestion : Do not induce vomiting. Immediately rinse mouth then drink plenty of water. Seek medical attention immediately.

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

Section 6. Accidental Release Measures

Personal precautions : Avoid contact with spilled material or contaminated surfaces. If ordinary clothing becomes contaminated remove it immediately. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing as detailed in section 8.

Environmental precautions : Do not let product contaminate subsoil. Do not allow product to enter drains. Do not flush into surface water. Prevent further spillage if safe.

Methods for cleaning up : Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with water. Washings must be prevented from entering surface water drains

Section 7. Handling & Storage

Handling : Wear chemically impervious gloves such as neoprene or nitrile. Wear safety glasses, goggles or face shield. Mechanical ventilation should be used when handling this product in enclosed spaces. Read and observe all precautions and instructions on the label.

Storage : Store in original containers, upright and closed. Store in areas that are cool, dry and well ventilated. Store away from seeds, fertilizers and animal feed stuff.

Section 8. Exposure Control, Personal Protection

Exposure limit value : ADI: 0.02 mg/kg bw (JECFA)

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

Respiratory protection : NIOSH approved organic vapor respirator in absence of mechanical ventilation.

Hand protection : Wear chemical resistant PVC or 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.

Environmental exposure controls : Keep away from food, drink and animal feed stuff. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheet.

Section 9. Physical and Chemical Properties

Appearance / state	:	White Liquid
Odour	:	Odorless
Melting Point	:	NA
pH	:	5-8
Solubility (in water)	:	Miscible in water
Flash Point	:	Not flammable

Section 10. Stability & Reactivity

Stability : Stable under normal conditions.

Conditions to avoid : Avoid excessive heat and direct sunlight.

Materials to avoid : None under normal condition of use

Incompatibility : Strong oxidizing and alkaline agents.

Section 11. Toxicological Information

Oral LD50: for rat 300-2000 mg/kg.

Skin Contact, Dermal LD50: rat >2000mg/kg

Inhalation, (4 hr) LC50: NA

Eye Irritation: Non- irritation

Skin Irritation: Non-irritation

Sensitization: Non- Sensitizing (guinea pig)

Section 12. Ecological Information

Daphnia magna, 24 hours : EC50: 0.14 µg/l water

Bees, 24 hours (oral) : LD50: 0.06 µg/bee

Mobility : No indication of a build-up of alpha-cypermethrin residues in the surface soil layers, or any evidence to suggest significant leaching into sub-surface soil layers.

Persistence and degradability : Under aerobic conditions of alpha-cypermethrin half-lives were 27 and 13 weeks for sandy clay loam and clay loam respectively.

Section 13. Disposal Consideration

Product disposal : Do not empty into drains or waterways. Disposal of product would usually be by incineration in an appropriate licensed commercial incinerator. Advice may be obtained from local waste regulation authorities.

Container disposal : Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

Section 14. Transport Information

IMDG Classification

Shipping name : PYRETHROID PESTICIDE LIQUID, TOXIC

Class : 6.1

Packing group : III

Admn. Off. : B-371, 1st Floor, Meera Bagh, Delhi-110063 (India)
Ph. : 25258770, 25258771, 25258772, 42334229

E-mail : utc_chemicals@hotmail.com
info@unitedchemicals.in

UN number : 3352

Marine pollutant : Yes

Section 15. Regulatory Information

Risk Phrases : R22: Harmful if swallowed. R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases : S2: Keep out of the reach of children. S13: Keep away from food, drink and animal feeding stuffs. S20/21: When using does not eat, drink or smoke. S23: Do not breathe gas/fumes/vapour/spray. S24/25: Avoid contact with skin and eyes. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection. S29/56: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. S61: Avoid release to the environment. Refer to special instructions/safety data sheets
Reference regulation : Regulation (EC) No 1907/2006

Section 16. Other Information

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 users own assessment of work place risk as required by other health and safety legislation. United chemicals will not be liable for any claims or damages arising out of use of this information.

Safety Division : UNITED CHEMICALS, SAFETY DIVISION