

### MATERIAL SAFETY DATA SHEET

PRODUCT : Alpha-Cypermethrin 10% EC

PRODUCT DESIGNATION : Insecticide

#### **Section 1. Product & Company Identification**

Common Name : Alpha-Cypermethrin 10% EC  
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, 1<sup>st</sup> 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**

<u>Name of Components</u>	<u>Concentration% w/w</u>
Alpha-Cypermethrin a. i.	10.00% w/w min.
Other Ingredients	90.00% 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.

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### Section 5. Fire Fighting Measures

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**FLASHPOINT:** 40.2 °C

**Extinguishing media**

**Recommended:** Water, foam, dry chemical, carbon dioxide (CO<sub>2</sub>)

**Unusual fire and explosion hazards** Minimize use of water to prevent environmental contamination. Environmental precautions .

**Hazardous products** of combustion Carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), hydrogen chloride (HCl) .

**Fire fighting equipment** Self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

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### Section 6. Accidental Release Measures

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**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

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### Section 7. Handling & Storage

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**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.

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### Section 8. Exposure Control, Personal Protection

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**ENGINEERING CONTROLS:** Control process conditions to avoid contact. Use only in well ventilated areas.

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYE PROTECTION:** Wear Safety Goggles

**CLOTHING:** Wear cotton overalls buttoned to the neck and wrist and a washable hat.

**GLOVES:** Wear elbow length PVC gloves.

**RESPIRATOR:** If inhalation is likely, wear a respirator with an organic vapour cartridge.

**Other:** After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles or face shield, respirator face piece and contaminated clothing.

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### Section 9. Physical and Chemical Properties

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Appearance / state	:	Bright Pale Straw Liquid
Odour	:	Solvent-like
Melting Point	:	137-143 °C
Alkalinity	:	0.338 % as NaOH
Solubility (in water)	:	NA
Density	:	0.917 gm/cm <sup>3</sup>
Flash Point	:	40.2 °C

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### Section 10. Stability & Reactivity

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**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** This product should be kept in a cool place, preferably below 30°C. Containers should be kept dry.

**Incompatibilities:** strong oxidising agents.

**Fire Decomposition:** Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**Polymerisation:** This product is unlikely to undergo polymerisation processes.

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### Section 11. Toxicological Information

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**Oral LD50:** for rat 64 mg/kg.

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

**Inhalation, (4 hr) LC50:** 1.59mg/l

**Eye Irritation:** Non- irritation

**Skin Irritation:** Non-irritation

**Sensitization:** Non- Sensitizing (guinea pig)

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### Section 12. Ecological Information

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**Fish LC50 (96 h) :** *Oncorhynchus mykiss* : 0.0028 mg/L

**Daphnia EC50 (48 h):** 0.0003 mg/L

**Aquatic plants EC50 (96 h) :** *Scenedesmus subspicatus/* : > 1 mg/L

**Soil organisms LD50 (14 d):** No mortality occurred in earth worm exposed to the levels of 100 mg /kg soil.

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### Section 13. Disposal Consideration

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**WASTE:** Pesticide wastes are toxic and hazardous. Dispose of in accordance with applicable and local laws and regulations. Do not discharge or pour into soil, drainage system or bodies of water.

**CONTAINER:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning (plastic containers). If burned, stay out of smoke.

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### Section 14. Transport Information

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#### IMDG Classification

Shipping name : PYRETHROID PESTICIDE LIQUID, TOXIC, FLAMMABLE

Class : 6.1

Packing group : III

UN number : 3351

Marine pollutant : Yes

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### Section 15. Regulatory Information

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EC Classification

Risk Symbols

T Toxic



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Xn Harmful

Xi Irritant

N Dangerous for the environment

Risk Phases

(R) R25 Toxic if swallowed

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R37 Irritating to respiratory system R50 Very toxic to aquatic organisms

R53 May cause long-term adverse effects in the aquatic environment.

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### Section 16. Other Information

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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**



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