



# BR AGROTECH LIMITED

Regd. & Corp. Off. : 1505, Vikram Tower, Rajendra Place, New Delhi-110008  
Phones : 43661111, 41538383 • Fax : +91-11-25727781, 43661100  
E-mail: info@bharatgroup.co.in • Website : www.bharatgroup.co.in  
CIN : U74899DL2000PLC103860

## MATERIAL SAFETY DATA SHEET

**Manufacturer** B.R. Agrotech Limited  
1505, Vikram Tower,  
Rajendra Place  
New Delhi – 110008, India

### 1. PRODUCT IDENTIFICATION

**Product** Alphacypermethrin 10% EC  
**Intended Use** Insecticide  
**IUPAC Name** A racemate comprising (S)-alpha-cyano-3-phenoxybenzyl (1R,3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropane carboxylate and (R)-alpha-cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropane carboxylate; and  
a racemate comprising (S)-alpha-cyano-3-phenoxybenzyl (1R)-cis-3-(2,2-dichloro-vinyl)-2,2-dimethylcyclopropane carboxylate and (R)-alpha-cyano-3-phenoxybenzyl (1S)-cis-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropane carboxylate  
**Chemical formula**  $C_{22}H_{19}Cl_2NO_3$

### 2. CHEMICAL COMPOSITION

Chemical Name	CAS No.	Content (%w/w)
Alphacypermethrin	67375–30–8	10% min
Other Ingredient	–	90% Max

### 3. HAZARDOUS IDENTIFICATION

**Skin** Non irritant  
**Eyes** Non irritant  
**Environmental Hazard** Noxious for animals. Do not contaminate water courses.

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## 4. FIRST AID MEASURES

<b>Eyes</b>	Flush eyes with plenty of cold water.
<b>Skin</b>	Wash with plenty of soap and water.
<b>Ingestion</b>	Induce vomiting if swallowed by tickling back of the throat with the finger.
<b>Inhalation</b>	Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.
<b>Note To Medical Doctor</b>	No specific antidote, treat symptomatically.

## 5. FIRE FIGHTING MEASURES

<b>Extinguishing Media</b>	Sprayed water jet, foam, extinguishing powder, CO <sub>2</sub> , Sand. Fight fire in early stages if safe to do so.
<b>Well ventilated areas</b>	Full face mask with combination filter, e.g. ABEK-P2 (offers no protection from carbon monoxide!)
<b>Fire Fighting Procedures</b>	Respirator with independent air supply. Contain firefighting water. In the event of fire, the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide, sulphur dioxide and nitrogen oxides must be anticipated.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Release Notes</b>	Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed accordingly. Keep unprotected persons and animals out of the area. Keep material out of lakes, streams, and ponds. Large spills should be covered to prevent dispersal. To clean and neutralize contaminated area, scrub area with a solution of detergent (e.g. commercial product such as Super soap, Tide or other high pH detergents) and water. Repeat if necessary to remove visible staining. Applying bleach to affected area can make additional decontamination.
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## 7. HANDLING AND STORAGE

**Handling And Storage** Store in a cool, dry, well ventilated place. Do not use or store near heat, open flames or hot surfaces. Store in original containers only. Keep out of the reach of the children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** No open flames. Prevent deposition of dust. Use closed system, consider use of explosion-proof electrical equipment and lighting. Use local exhaust at all process locations. Ventilate all transport vehicles prior to unloading.

**Eyes And Face** For protection against exposure, wear chemical protective goggles or a face shield.

**Respiratory** For protection against exposures wear, as a minimum, a properly fitted half – face or full face air purifying respirator, which is approved for pesticides (U.S. NIOSH/MSHA, EU CEN or comparable certification organization). Respirator use and selection must be based on airborne concentration.

**Protective Clothing** Depending upon concentration encountered, wear coveralls or long – sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a PVC SUIT. Leather items – such as shoes, belts and watchbands – that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).

**Gloves** Wear chemical protective gloves made of material such as rubber or neoprene. Thoroughly wash the outside of gloves soap and water prior to removal. Inspect regularly for leaks.

**Work Hygienic Practices** Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum, or using tobacco. Shower at the end of the workday.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Liquid

### Physical State

**Colour** Pale Yellow to Brown

**Solubility in Water** Emulsible

## 10. STABILITY AND REACTIVITY

**Conditions To Avoid** Excessive heat and fire.

**Stability** Stable under NTP conditions

## 11. TOXICOLOGICAL INFORMATION

**Acute Oral LD50 Rat** 400 mg/kg bw.

**Acute Dermal LD50 Rat** >2000 mg/kg

**Acute Inhalation LC50 Rat** 2.7 mg/l air

**Skin irritation (Rabbit)** Non irritant

**Eye irritation (Rabbit)** Mild irritant

**Skin Sensitizer** Not a Skin Sensitizer

## 12. ECOLOGICAL INFORMATION

**Toxicity to Quail (MLD)** >2000 mg/kg

**Toxicity to Bee (LD50)** 0.059 µg/bee

**Toxicity to Fish (LC50)** 2.8 µg/l

**Toxicity to Daphnia** 0.3 µg/l

## 13. ISPOSAL CONSIDERATIONS

**Disposal Method** Open dumping or burning of this material or its packing is prohibited. If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations. However, because acceptable methods of disposal may vary by location and regulatory requirements may change, the appropriate agencies should be contacted prior to disposal.

**Empty Container** Completely empty package into application equipment then dispose of empty package in accordance with all Federal, State and local regulations.

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## 14. TRANSPORT INFORMATION

### ADR/RID Classification

**Proper shipping Name** Pyrethroid pesticide, Liquid toxic N.O.S (Contains alphacypermethrin)  
**UN No.** 3349  
**Packing Group** III  
**Hazard Class** 6.1

### IMDG Classification

**Proper shipping Name** Pyrethroid pesticide, Liquid toxic N.O.S (Contains alphacypermethrin)  
**UN No.** 3349  
**Packing Group** III  
**Hazard Class** 6.1

### IATA/ICAO Classification

**Proper shipping Name** Pyrethroid pesticide, Liquid toxic N.O.S (Contains alphacypermethrin)  
**UN No.** 3349  
**Packing Group** III  
**Hazard Class** 6.1

## 15. REGULATORY INFORMATION

Xn



Harmful or Irritant

N



Dangerous for environment

**Hazard symbol**

Xn, N

**Risk Phrase**

**R21** Harmful in contact in skin

**Safety Phrase**

**S2** Keep out of reach of children

**S60** This material and its container must be disposed of as hazardous waste

**S61** Avoid release to the environment. refer to special instructions/safety data sheets



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## 16. OTHER INFORMATION

*This MSDS summarises best knowledge of the health and safety hazard information of the product. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. The responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.*

Date: 25 – 3 – 2014

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