



## *Material Safety Data Sheet (MSDS)* *ALFABAZ 5 EC*

### IDENTIFICATION OF THE SUPPLIER:

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### PRODUCT IDENTIFICATION:

**Trade Name:** ALFABAZ 5 EC

**Common Name:** Alpha -Cypermethrin

**Chemical Name:**

(S)-  $\alpha$ -cyano-phenoxybenzyl(1R,3R)-3-(2,2-dichlorovinyl)-2,2-dimethylpropanecarboxylate and  $\alpha$ -cyano-3-phenoxybenzyl(1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylpropanecarboxylate.

**Chemical Formula:** C<sub>22</sub>H<sub>19</sub>Cl<sub>2</sub>NO<sub>3</sub>

**Molecular Weight:** 416.3

### PRODUCT COMPOSITION:

<i>Active Ingredient:</i>	<i>% w/v</i>	<i>CAS #</i>
Alpha-cypermethrin	5 %	[67375-30-8]
<i>Inert ingredient:</i>		
Emulsifier	8%	--
Solvent	Up to 100%	--



## HAZARDS IDENTIFICATION:

### Emergency Overview

- White to pale liquid with weak aromatic odor.
- 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 paresthesia.

## FIRE-FIGHTING MEASURES: -

**FLASH POINT** - Not autoflammable

**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.

## 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.

### **ACCIDENTAL RELEASE:**

- 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

### **PERSONAL PROTECTION/SAFETY:**

#### **General Precautions:**

Good local exhaust ventilation.

Avoid long-term exposure, even small quantities. Repeated inhalation or skin contact may without symptoms

#### **Personnel Protection**

Facial skin contact may cause temporary facial numbness. Sensitive workers should use protective clothing. Avoid contact with eyes and skin.

Do not inhale spray mist. When preparing spray wear cotton overalls buttoned to the neck and wrist and washable hat, elbow length





PVC gloves and face shield or goggles. 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, face shield or goggles and contaminated clothing.

**Skin Protection:**

Natural rubber gloves and appropriate protective clothing, necessary to prevent skin contact with the product

**Other protective equipment:**

Showers and eye - washers in working area.

**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.

**PHYSICAL-CHEMICAL DATA:**

**State:** Liquid.

**Colour:** Light yellow

**Odour:** mild aromatic

**PH:** 6.5

**Density:** 0.89 g/L

**STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable

**CONDITIONS TO AVOID:** Not known.

**MATERIALS TO AVOID :** Strong oxidizing agents

**HAZARDOUS POLYMERISATION:** Product will not undergo polymerization.



## TOXICITY INFORMATION:

### ACUTE TOXICITY:

<b>Oral LD 50 (rat) –</b>	474 mg/kg body weight
<b>Dermal LD 50 (rat) -</b>	>2000mg/kg body weight
<b>Inhalation LC 50 (rat)-</b>	0.32 mg/l of air
<b>Eye Irritation (rabbit) –</b>	Mild Irritant
<b>Skin Irritation (rabbit) –</b>	Mild irritant
<b>Sensitization (guinea pig) –</b>	Moderate-sensitiser

## ECOLOGICAL INFORMATION: -

This ecological assessment is calculated from data available on the Environmental Summary:

- Alphacypermethrin is highly toxic to fish and aquatic organisms.
- Alphacypermethrin is also toxic to bees.

## DISPOSAL CONSIDERATIONS:

- Empty container retains product residue.
  - Observe all hazard precautions.
  - Do not distribute or make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from containers by triple rinsing and puncture or otherwise destroy empty containers before disposal.
  - Do not contaminate waterways by cleaning of equipment or disposal of wastes  
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.





## Transport Information

**UN No. - 3352**

**IMDG - 6219**

**Packaging Class and Group – 6.1 and III**

**Label – Toxic M.P.**

**EMS No.- 6.1-02**

