



## Material Safety Data Sheet (MSDS) *Acibaz 25 EC*

### IDENTIFICATION OF THE SUPPLIER:

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### PRODUCT IDENTIFICATION:

**Common Name:** Cypermethrin  
**Trade Name:** Acibaz 25 EC  
**Chemical Name:** (RS) -  $\infty$  - Cyano-3- phenoxybenzyl (1RS , 3RS ; 1RS , 3 SR ) –  
3- (2,2-dichlorovinyl ) = 2,2- dimethylcyclopropanecarboxylate .  
**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>	CAS #	% w/v
Cypermethrin	[52315-07-8]	25% w/v
<i>Inert ingredient:</i>		
Emulsifier		7% w/v
Solvent		Up to 1 liter.



## HAZARDS IDENTIFICATION:

**Physical hazards:** Combustible liquid

**Health hazards:** irritant (eye, skin sensitization), Harmful (oral). Toxic (inhalation).

## FIRE-FIGHTING MEASURES: -

**Flash point:** 45 °C

**Extinguishing media:** Dry chemical, carbon dioxide, water spray or standard foam.

**Unsuitable extinguishing:** High pressure water jet media

**Special exposure hazards:** Do not release chemically contaminated water into drains, soil and surface waters.

**Special protective:** As for all fires involving chemicals: chemical protection suit, suitable gloves equipment for fire-fighters and boots, and self-contained breathing apparatus.

## FIRST-AID MEASURES:

**Skin contact:** Remove all contaminated clothes and shoes. Wash off immediately with soap and plenty of water (15 - 20 minutes). Get medical attention if irritation persists.

**Eye contact:** Rinse immediately with plenty of water and seek medical advice.

**Inhalation:** Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.

**Ingestion:** Do not induce vomiting. Give oxygen if respiration is depressed. Do not perform gastric lavage if victim is unconscious. Get medical attention immediately.

**Other information** Treat symptomatically and supportively

## ACCIDENTAL RELEASE:

**Personal Precautions:** Use personal protective equipments.

**Method of Cleaning up:** Do not touch spilled material. Stop leak if you can do it without risk. For small spills, take up with sand or other absorbent material and place into containers for later disposal. Move containers from spill area. For larger spills, dike far ahead of spill for later disposal. Keep unnecessary people away. Isolate hazard area and deny entry. Ventilate closed space.

**Environmental Precautions:** Prevent contamination of water.



## PERSONAL PROTECTION/SAFTETY:

**Engineering control:** Use local exhaust at all process locations where vapor or mist may be emitted. Ventilate all transport vehicles prior to unloading.

### PERSONAL PROTECTIVE EQUIPMENT

**Eyes and face:** For splash, mist or spray exposure, wear chemical protective goggles or a face shield.

**Respiratory:** For splash, mist or spray exposure wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator.

**Protective clothing:** Depending upon concentrations 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. Leather items - such as shoes, belts and watchbands – that become contaminated should be removed and destroyed. Launder all work clothing before reuse.

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

**Gloves:** Wear chemical protective gloves made of materials such as butyl rubber, nitrile or Viton® brand.

Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

## HANDLING AND STORAGE:

**Handling:** Keep product in original tightly closed container. Avoid exposure by inhalation. Do not eat, drink or smoke when handling. Wash hands before eating, drinking or smoking.

**Storage:** Keep in a cool dry place in original packing store under lock and key. Keep out of reach of children. Do not store near foodstuff. Poultry and domestic animals. Do no loads with foodstuff while transportation. Check that containers are sound and labels undamaged before dispatch.

## STABILITY AND REACTIVITY:

**Stability:** Stable for 2 years under optimum condition of storage.

**Conditions to avoid:** No special precautions other than good housekeeping of chemicals.

**Material to avoid:** Strong oxidising agents

**Hazardous decomposition:** Thermal decomposition products may emit toxic fumes of hydrogen cyanide and oxides of carbon and nitrogen.

**Incompatibility with other Material:** Incompatible with alkaline pesticides



## TOXICOLOGICAL INFORMATION:

<b>LD50 Acute Oral Rat:</b>	321.64 mg/kg b.w.
<b>Mice:</b>	269.92 mg/kg b.w.
<b>LD50 Acute Dermal Rat :</b>	>2000 mg/kg b.w.
<b>Rabbit:</b>	2500 mg/kg b.w.
<b>LD50 Acute Inhalation Rat:</b>	3.5 mg/lit. air
<b>Skin Irritation Rabbit:</b>	Slight irritation
<b>Eye Irritation Rabbit:</b>	Slight irritation
<b>Skin Sensitization:</b>	Weak skin sensitizer.

### Chronic toxicity:

2 Years study in Rat NOEL: 7.5 mg/kg

2 Years study in dog NOEL: 5 mg/kg

## ECOLOGICAL INFORMATION: -

### Environmental data:

When applied at agricultural use rates, cypermethrin has a moderate rate of degradation in the soil. At termiticidal use rates, cypermethrin degrades at a slower rate which is governed by soil characteristics (e.g., pH). The rate of cypermethrin hydrolysis is somewhat faster under alkaline conditions than at neutral or acidic pH. Cypermethrin has a high affinity for organic matter and a Log Pow of 5.0, but has demonstrated a low potential for bioconcentration (BCF = 17). Cypermethrin is not mobile in soil.

### Ecotoxicological information:

**Bees** Toxic to bees

**Birds** Bobwhite Quail LC50 = >20,000 ppm

Mallard Duck LD50 Oral = >4640 mg/kg

**The Aquatic Organisms** Daphnia Magna LD50 = >0.0002 mg/lit

Blue-Green Algac LC50 (20H) =20,000 ug/lit.

### Fishes

Bluegill Sunfish LD50 (96H) = 0.0018 mg/lit

## DISPOSAL CONSIDERATIONS:

**Disposal method:** Open dumping or burning of this material or its packaging 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:** Non-returnable containers which held this material should be cleaned, prior to disposal, by triple rinsing. Containers which held this material may be cleaned by being triple-rinsed, and recycled, with the rinsate being incinerated. Do not cut or weld metal containers.

Vapors that form may create an explosion hazard.

## TRANSPORT INFORMATION:

**UN No.** 2902

**IMCO Class:** 6.1

**IMDG PG:** 6219

**Packing Group:** III

**Proper Shipping Name:** Pyrethroid pesticide, liquid, toxic, flammable  
(Cypermethrin 25% Aromatic solution)

**Environmental risk:** Marine pollutant

