

Material Safety Data Sheet (MSDS)

Acicam 5 D

IDENTIFICATION OF THE SUPPLIER:

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PRODUCT IDENTIFICATION:

Trade Name: Acicam 5 D

Common Name: Cypermethrin

Chemical Name: (RS) - α - Cyano-3- phenoxybenzyl (1RS , 3RS ; 1RS , 3SR) -3-(2,2-dichlorovinyl) - 2,2-dimethylcyclopropanecarboxylate .

Roth: (RS)- α -cyano-3-phenoxybenzyl (1RS)-cis-trans-3-(2, 2-dichlorovinyl) -2,2-dimethyl cyclopropane carboxylate.

Molecular Weight: 416.3

Chemical Formula: C₂₂H₁₉Cl₂NO₃

PRODUCT COMPOSITION:

Active Ingredient: Cypermethrin 5 g/kg

Inert ingredient carrier: Up to 1 Kg

HAZARDS IDENTIFICATION:

Hazard Description: May be an irritant; may cause irritation to eyes, skin, and mucous membranes.

Information pertaining to particular dangers for man and environment:

HMIS Ratings: Health= 1 Flammability= 0 Reactivity= 0

FIRST-AID MEASURES:

- **If inhaled**, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
- In case of skin contact**, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
- **In case of contact with eyes**, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
- **If swallowed** don't induce vomiting. Call a physician immediately.

ACCIDENTAL RELEASE MEASURES:

Measure for cleaning: collecting the contaminated area by collecting the material then disposal it, this dust product is easily to clean.
Wear self contained breathing apparatus, protective clothing and rubber gloves.

HANDLING AND STORAGE:

Information for safe handling: avoid contact with skin, eyes and clothing; material may be an irritant.
Storage: Store material in a dry cool, well ventilated area away from stuff and animal feed.

EXPOSURE CONTROLS AND PERSONAL:

Personal protective equipment as follows:

Breathing equipment: NIOSH/MSHA- approved respirator.

Protection for hand: Chemical resistant rubber gloves.

Eye protection: Chemical safety goggles.

Industrial hygiene: Safety shower and eye wash should be provided at work place; Do not eat, drink, smoke while working, wash hand before meals and after work with soap.

PHYSICAL AND CHEMICAL PROPERTIES:

Form: powder

Color: Off white - white

Odor: Odorless.

PH: 7

Density: 1g/kg

Flammability: Non flammable

Explosivity: Non explosive

Corrosivity: Non corrosion

STABILITY AND REACTIVITY:

Stability: Avoid acids and bases.

Thermal decomposition/ conditions to be avoided: Protect from light and heat.

Dangerous products of decomposition: Thermal decomposition may produce toxic gases such as carbon monoxide and carbon dioxide.

TOXICOLOGICAL INFORMATION:

◆ **Acute Toxicity:**

Oral LD50 : Rate 250-4150 mg/kg (active).

Dermal (LD50) : 1600mg/ kg (active).

Inhalation (LC50): rat 2.5mg/L (active).

◆ **Primary irritant effect:**

On the skin: slight skin irritant

On the eye : slight eye irritant.

ECOLOGICAL INFORMATION: -

General notes:

-Mallard ducks: > 10000 mg/kg.(toxic to bird) .

-Fish LC₅₀ (96h): Rainbow trout= 0.69 mg/L (Extremely toxic to fish).

Sheep shead minnow= 2.37 µg/L

-Bees LD₅₀ (24h): 0.035 µg /bee (toxic to bees).

-Daphnia EC₅₀: 0.15 µg/L.



ENVIRONMENTAL FATE:

-Animal: Elimination of cypermethrin was rapid in most animals, in most tissues the half life was approximately one day.

-Soil: in soil, hydrolysis with cleavage of the ester bond occurs within 16 weeks, further hydrolytic and oxidative degradation occurs, photodegrades rapidly with a half-life of 8 to 16 days.

- Water: in river water, rapid degradation occurs DT50 0.5d.

DISPOSAL CONSIDERATIONS:

Dispose of in accordance with prevailing country, federal, state and local regulations.

TRANSPORT INFORMATION:

Proper shipping name: Pyrethroid insecticide, solid.

Non-Hazardous for transport: this substance is considered to be non-hazardous for transport.

Toxicity class: II.

REGULATIONS:

Risk phrases: May be irritation to eyes, skin and respiratory system.

Safety Phrases: In case of accident, flush eyes or skin with copious amount of water; remove contaminated clothing and shoes; call a physician.

EFFECT OF OVER EXPOURE:

Ocular: May cause eye irritation

Dermal: Slight skin irritation.

Carcinogenicity: Non carcinogenic.

Teratogenicity: Non teratogenic.

Mutagenicity: Non mutagenic.