



Material Safety Data Sheet (MSDS)
Acilure 5 EW

IDENTIFICATION OF THE SUPPLIER:

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PRODUCT IDENTIFICATION:

Common Name: Cyfluthrin 5% w/v
Trade Name: Acilure 5 EW
Type of formulation: Emulsion oil in water (EW)
Chemical Name: cyano(4-fluoro-3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate (unstated stereochemistry)
Chemical Formula: C₂₂H₁₈Cl₂FNO₃
Molecular Weight: 434.3

PRODUCT COMPOSITION:

Active Ingredient:	% w/v	CAS #
Cyfluthrin	5 %	[68359-37-5]
Inert ingredient:		
Solvent (water)	Up to 100%	--

HAZARDS IDENTIFICATION:

HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

Will irritate eyes and skin. Not flammable.

Hazard designation: Hazardous according to criteria of Work area

Risk phrases: R36 – Irritating to the skin
R38 – Irritating to the eyes

Safety phrases: 23-Do not breathe fumes/vapour/spray.
26-In case of contact with eyes, rinse Immediately with plenty of water and seek medical advice.
36/37-Wear suitable Protective clothing and gloves.
45-In case of accident or if you feel unwell, seek Medical advice immediately (Show the label where possible).



FIRE-FIGHTING MEASURES: -

Extinguishing media:

Sprayed water jet, foam, extinguishing powder, carbon dioxide, sand.

Hazards from Combustion Products:

In the event of fire, formation of hydrogen chloride, hydrogen cyanide, hydrogen fluoride, carbon monoxide and nitrogen. Oxides can be anticipated .

Precautions for Fight fire in early stages if safe to do so.

Fire fighters: Wear respiratory protection. Well ventilated areas: wear full face mask with combination filter eg. ABEK-P2 (offers no protection from carbon monoxide) Enclosed premises: wear respirator with independent air supply. Contain firefighting water

FIRST-AID MEASURES:

Inhalation: Remove to well ventilated area, and contact a doctor.

Skin contact: If material is on skin wash off with soap and water

Eye contact: Hold eyes open and flood with water for at least 15 minutes

Ingestion: Do not induce vomiting, contact a doctor.

First Aid Facilities: Provide washing facilities in the workplace.

Symptoms: No specific symptoms of overexposure. Tingling sensations may be felt in skin and mucous membranes exposed to the chemical.

Exposure to spray mist may cause nasal irritation

Medical attention: Apply basic aid and decontamination procedures. Treat Symptomatically. There is no specific antidote. The primary presenting signs of overexposure usually relate to hyperaesthesia of nerve endings in skin and mucous membranes exposed to the chemical. These signs can only be treated symptomatically and resolve spontaneously within 24-48 hours. The skin and mucous membrane hyperaesthesia results from direct contact, not from systemic distribution of the chemical

ACCIDENTAL RELEASE:

After spillage/leakage/gas leakage:

Prevent spillage from spreading or entering waterways and drains. Take up with absorbent material such as sawdust, or soil. Fill material along with any contaminated soil etc., into sealable containers. Clean affected area with an aqueous detergent and a small amount of water. Absorb this with hydrated lime and place in sealable container. Spread hydrated lime over the affected area. Do not smoke, eat or drink during cleanup operation.



PERSONAL PROTECTION/SAFTETY:

Exposure Standards:

Exposure Standards: NOHSC has not determined exposure standards for cyfluthrin or any of the other ingredients in the product.

Engineering Controls:

No engineering controls are required in the normal use of this product according to label.

Personal Protective Equipment:

Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. When preparing and using the spray wear rubber gloves.

After use and before eating, drinking or smoking, wash hands, arms, and face thoroughly with soap and water

HANDLING AND STORAGE:

Handling: Keep out of reach of children.

Storage: Store away from food, drink or animal feeding stuffs. Store below 30°C. Keep away from heat or moisture.

PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Milky white liquid emulsion
Odor:	Aromatic
Solubility:	Emulsifiable
Density:	1.04 g/ml at 20°C
PH:	6-7

STABILITY AND REACTIVITY:

Chemical stability: product is stable product is water based- non flammable

Hazardous polymerization: Hazardous polymerization will not occur.

Conditions to avoid: Keep away from heat or moisture

Incompatible materials: Avoid strong oxidizing agents.

Hazardous decomposition products: In the event of fire, formation of hydrogen chloride, hydrogen cyanide, hydrogen fluoride, carbon monoxide and nitrogen oxides can be anticipated.



DISPOSAL CONSIDERATIONS:

- 1) **After intended use:** Triple rinse containers before disposal and add rinsing to the tank mix or dispose of in a disposal pit away from waterways. Destroy empty containers by breaking, crushing or puncturing them. Bury containers at a depth of 500 mm or more at a safe disposal site, or take them to a dump that does not burn its refuse. Do not burn empty containers or product.
- 2) **After spill or accident:** Dispose of sealed containers at an approved local waste disposal site

TOXICOLOGICAL INFORMATION:

POTENTIAL HEALTH EFFECTS

Inhalation:	Not available
Skin contact:	Will irritate skin
Eye contact:	Will irritate eyes
Ingestion:	Not available
Other:	None

ANIMAL TOXICITY DATA – PRODUCT:

Acute:

Oral toxicity:	LD ₅₀ rat: >2000 mg/kg
Dermal toxicity:	LD ₅₀ rat: >5000 mg/kg
Inhalation toxicity:	LC ₅₀ (4h) for male and female rats 0.5mg/L air (aerosol)
Skin irritation:	Slightly irritating – rabbit
Eye irritation:	Slightly irritating – rabbit
Sensitization:	Not available

Chronic:

Cyfluthrin has been shown in animal tests to be non-carcinogenic and non-mutagenic.

The effects of chronic human exposure to this chemical have not been determined.

ECOLOGICAL INFORMATION: -

Fish toxicity:	LC ₅₀ : 0.002 mg/L (96 h) Carp (<i>Cyprinus carpio</i>) LC ₅₀ : 0.0032 mg/L (96 hours) Golden orfe (<i>Leuciscus idus</i>) LC ₅₀ : 0.0005 mg/L (96 hours) Rainbow trout (<i>Salmo gairderi</i>) LC ₅₀ : 0.001 mg/L (96 hours) Bluegill (<i>Lepomis macrochirus</i>)
Daphnia toxicity:	EC ₅₀ : 0.016 mg/L (48 hours) Water flea (<i>Daphnia magna</i>)

Toxicity to algae: EC₅₀ for *Scenedesmus subspicatus* >10mg/L





Bird toxicity: Non toxic

Bee toxicity: Cyfluthrin is a toxic to bees

Environmental fate persistence and degradation:

Degradation in different soils is rapid. The leaching behaviour, can be classified as immobile, the metabolites of cyfluthrin are subject to further microbial degradation to the point of mineralisation to CO₂.

TRANSPORT INFORMATION:

International transport regulations:

Proper shipping name : Environmentally Hazardous Substances ,Liquid
n.o.s*(cyfluthrin)

UN number: 3082

Class or division: 9

Hazard label: Miscellaneous

PG : III

Passenger aircraft : 914

