



TECHNICAL DATA BULLETIN

PRODUCT TECHNICAL INFORMATION AND APPLICATIONS

CYPRINE® 100EC

(CYPERMETHRIN 10%)

1. INTRODUCTION:

Cyprine®100EC is an emulsifiable concentrate formulation of synthetic pyrethroid insecticide. It contains 100 g/L of the active ingredient Cypermethrin. It is used as for the control of a wide range of insect pests on several agricultural crops.

2. ACTIVE INGREDIENT:

Common name

Cypermethrin

Chemical Group

Synthetic pyrethroid

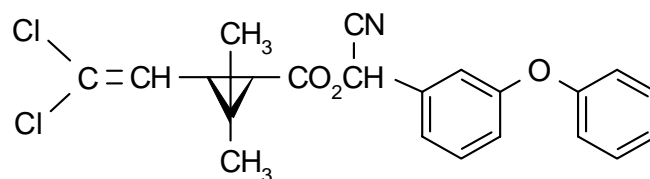
CAS Registry No.

52315-07-8

Molecular Formula

C₂₂ H₁₉ Cl₂ NO₃

Structural Formula



Molecular weight

416.3

Vapour Pressure

2.0 X 10⁻⁴ mPa @20°C

K_{ow} log P

6.6

Acute oral LD₅₀, Male rat

250 – 4150 mg/kg



3. PHYSIOCHEMICAL PROPERTIES OF THE PRODUCT:

Assay:	<i>Cypermethrin</i> 100 ± 10 g/L
Appearance:	Clear yellow liquid free of visible impurities
Odour:	Aromatic
Density:	0.9050 Kg/L
Flash Point:	26.5°C
Water contents:	0.05% w/w
Acidity as H ₂ SO ₄ :	01% w/w

4. MODE OF ACTION:

Cyprine[®]100EC is a broad-spectrum non-systemic insecticide with contact and stomach poisoning activity with anti-feeding action. It has a fast knockdown activity. It is relatively stable to sunlight and resistant to rain wash-off. It has good residual activity on the treated plants.

5. USES:

Cyprine[®]100EC is used against a wide range of insect pests including aphids, whitefly, caterpillars, fruit flies, grasshoppers, scale insects and many others. It is used in a number of crops such as wheat; barely fruit trees, citrus, vines, potatoes, carrots, pepper, cucumber, lettuce, onion, tomatoes, okra, cabbage, cotton, ornamentals and forestry.

6. COMPATIBILITY:

Cyprine[®]100EC may be tank-mixed with most pesticides and fertilizer materials. However, it is incompatible with alkaline materials.



7. APPLICATION:

Cyprine[®]100EC is applied at the rate of 0.2 – 0.7 L/ha or 20 – 150 ml /100 L of water depending on the target pest and the crop to be treated.

The following table can be used as a guide for the application of **Cyprine**[®]100EC

Recommendations for Use

Crop	Pest	Application Rate
Cereal Crops	Aphids	250 ml /ha
• Wheat	Cereal bugs	200 -400 ml /ha
• Barely	Caterpillars	250 – 500 ml /ha
• Maize	Grasshoppers	200 – 500 ml /ha
Vegetable Crops	Whitefly, Aphids, Leafminers, and cabbage lopper	50 ml /100 L water
• Tomatoes		
• Potatoes		
• Peppers		
• Lettuce	Tomato fruit warm, Army worm, Potato tuber moth and leafhoppers	40 -120 ml/100 L water
Alfalfa	Army worm, caterpillars, locust and grasshoppers	250 – 500 ml /ha
Citrus fruits	Fruit worms, aphids, Scale insects, fruit fly and mites	60 -150 ml /100 L of water

Notes:

- Cyprine 100 EC applied when insects appear and repeated as necessary.
- Good coverage is necessary since it has no systemic activity.



8. PHYTOTOXICITY:

Cyprine[®]100EC is not phytotoxic when used as directed.

9. WITHHOLDING PERIOD:

Varies with crop. See label for details.

10. SPECIAL PRECAUTIONS:

- Flammable
- Dangerous to fish.
- Harmful if swallowed.
- Irritating to eyes and skin

11. HANDLING, STORAGE AND TRANSPORTATION:

Personnel handling **Cyprine**[®]100 EC should wear clean rubber gloves, protective clothing and goggles. The product should be stored in its original container in a cool dry ventilated store away from sparkler heat devices. It must be kept under lock and key away from foodstuffs and animal feed.