



## TECHNICAL DATA BULLETIN

PRODUCT TECHNICAL INFORMATION AND APPLICATIONS

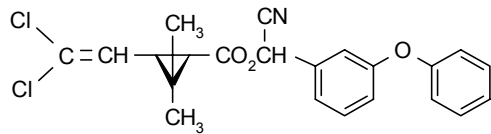
### CYGNET<sup>®</sup> 100EC

"Cypermethrin 100 gm/L EC"

#### 1. INTRODUCTION:

**Cygnnet** 100EC is a non-systemic pyrethroid Insecticide as an emulsifiable concentrate formulation containing 100 gm / L of the active ingredient Cypermethrin. It is used for the control of a wide range of insect pests in public health household, animal places and warehouses.

#### 2. ACTIVE INGREDIENT:

Common name	Cypermethrin
Chemical Group	Pyrethriod
CAS Registry No.	52315-07-8
Molecular Formula	C <sub>22</sub> H <sub>19</sub> Cl <sub>2</sub> NO <sub>3</sub>
Chemical Name (IUPAC)	(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-dimethylcyclopropanecarboxylate
Structural Formula	
Molecular weight	416.3
Vapour Pressure	2.0 x10 <sup>-4</sup> mPa @20°C
K <sub>ow</sub> log P	6.6
Acute oral LD <sub>50</sub> , Male rat	250 - 4150 mg/kg



### 3. PHYSIOCHEMICAL PROPERTIES OF THE PRODUCT:

Assay Cypermethrin	100 ± 10 g/L
Appearance	Clear yellow liquid free of visible impurities
Density	0.930 g/ml
Flash Point	> 40.0°C
Water contents	<2.0 g/Kg
Acidity as H <sub>2</sub> SO <sub>4</sub>	<1.5 g/Kg
Stability in Water	Forms emulsion

### 4. MODE OF ACTION:

**Cygnnet** 100EC is Non-systemic insecticide with contact and stomach action. Also exhibits anti-feeding action. Good residual activity.

### 5. USES:

**Cygnnet** 100EC Control of a wide range of insects and used for the Control of flies and other insects in animal houses and mosquitoes, cockroaches, houseflies and other insect pests in public health..

### 6. COMPATIBILITY:

**Cygnnet** 100EC is incompatible with alkaline materials

### 7. APPLICATION:

**Cygnnet** 100EC is applied as surface residual spray, ULV spray of thermal fogging. The product is applied after being diluted with water or a suitable carrier such as C-Deck, Diesel oil or Kerosene.



The following table can be used as a guide for the application of **Cygnnet 100EC**

Insect Pests	Application Rate
House fly & Mosquitoes	<ul style="list-style-type: none"> <li>• <b>Residual Surface Application:</b> 100 - 200 ml/5 L of water</li> <li>• <b>ULV Applications:</b> Dilute 1:9 and Spray 0.5 L/ha</li> <li>• <b>Thermal Fogging:</b> Dilute 1:40 and spray 0.5 L/ha For heavy infestations dilute 1:20 and spray 0.5 L/ha</li> </ul>
Mosquito larvae	Dilute 40 ml. in 100 L of Water
Store pests	Dilute 100 ml. in 5 Lt of Water
Beetles	Dilute 250 ml. in 5 Lt of Water
Store Beetle	Mist Application: 350 ml./5 Lt of water Fogging: 100ml/5 Lt. Desil or Carrier

#### 8. HANDLING, STORAGE AND TRANSPORTATION:

**Cygnnet 100EC** should be transported its original labeled, tightly closed container and stored in a dry well ventilated store at room temperature and away from direct sunlight. It should also be kept away from children, animals, food, feed and drinks and unauthorized personnel. Personnel involved in handling this material should wear protective gloves, clean protective clothing and a facemask.