

## **FALL ARMYWORM (FAW) AS MAJOR GLOBAL CONCERN**

- ▶ FAW is a polyphagous insect pest that attacks more than 80 plant species including maize, sorghum, millet, sugarcane and vegetable crops.
- ▶ High fecundity rate.
- ▶ It can travel/ migrate upto 100 km distances in a night.
- ▶ It has continuous generations throughout the year.
- ▶ It can sustain adverse conditions.

## **ECONOMIC LOSS**

- ▶ In the absence of control methods, FAW has the potential to cause losses of an estimated 8.3 to 20.6 m tons of maize per annum (valued at US \$ 2481–6187 m) in 12 maize-producing countries in South Africa, which accounts for approximately 20% of the total production in the region.
- ▶ The UK Department for International Development (DFID), crop losses from just 12 countries could be between \$2.5 to \$6.3 billion.
- ▶ As per FAO, FAW could threaten the food security of more than 300 million people in Africa, and cause significant economic losses, up to \$4.8 billion from maize production alone.

## **DAMAGE SYMPTOMS**

- ▶ Ragged feeding on leaf, and moist sawdust-like frass near the funnel and upper leaves.
- ▶ Early feeding can appear to be similar to other caterpillars.
- ▶ Deep feeding in the leaf funnel may destroy the growing points and developing tassels.
- ▶ Caterpillars tend to enter through the side of the ear and feed on developing kernels.
- ▶ This is in contrast to stem borer caterpillars that normally enter the ear from the top or the bottom

So, to overcome this serious pests Warkem Biotech Pvt. Ltd. proposed an ecofriendly, biodegradable, nontoxic, novel control kits i.e. **WA395: FAWL Plus Kit**

## Technical Data

### Product Name : SuperFAWL PLUS Kit

SuperFAWL PLUS Kit can be used to prevent food, feed, fiber, oil, ornamental and industrial crops from direct and indirect damage caused by Fall army worm (FAW).

#### Kit Contents :

Part A	WA392P-1NO X 200GM WA393-1NO X 1KT	Super FAWL Kit WP Nim-Q Plus	All kit contents provided in this kit aids in prevention & control of Fall army worm infestation on food, feed, fiber, oil, ornamental & industrial crops.
Part B	WA396-1NO X 1PK	SuperFRU-G-Lure	
Part C	WA343-25NO X 1PK	I-Trap	

#### Directions For Use :

##### *For Preparation of 100 Liters Solution for Part A – [WA392P] Super FAWL Kit WP*

1. Measure out approximately 10 liters of water. To this add all Part A contents of the Kit i.e., WA392P and mix well to form a homogeneous solution.
2. Make up the final volume up to 100 liters by adding water.

##### *For Preparation of 100 Liters Solution for Part A- [WA393] Nim-Q Plus*

1. Measure out approximately 10 liters of water. To this add Part A contents of the Kit i.e., WA393 and mix well to form a homogeneous solution.
2. Make up the final volume up to 100 liters by adding water.

#### Field Application Procedure For Above Prepared Kit Contents :

1. Firstly, use WA393 [Nim-Q Plus] of Part A on desired crops through foliar/drenching/drip application in late evening.
2. After 24 hours of the above application, Use WA392P of Part A on desired crops through foliar/drenching/drip application in early morning or late evening.

#### Installation Procedure for Part B & Part C :

1. Fix the collection bag with ring to the base of I-Trap [WA343].
2. Fix canopy on the I-Trap base.
3. Insert WA396 (SuperFRU-G-Lure) septa in to middle of the canopy opening.
4. Traps should normally be attached in upright position to stakes at crop height with proper distance between each trap.

5. The collection bag can be cleaned and replaced occasionally, depending on the insect catch rate.
6. For monitoring, mass-trapping and as mating disruptor, install the trap after 15 days of sowing.

**Incompatibility :**

Do not use the product along with chemical pesticides.

**Compatibility :**

Compatible with other biofertilizers/biopesticides.

**Storage & Shelf life :**

Store the kit contents in a cool dry place away from direct heat and sunlight. Once opened use the entire contents of the kit. Empty bottles/packets should not be used for storage of water or any food products. Do not store this product along with food or animal feed. Keep the product out of children's reach. Use before the expiry date mentioned on the label.

**Precautions By User :**

- Avoid inhalation & contact with skin and eyes.
- Wear overall protective clothing such as rubber gloves, face/dust mask, safety goggles, shoes and apron during product application.
- Do not eat, drink & smoke before and after product handling.
- Destroy empty containers appropriately after use away from habitation.
- Wash protective clothing daily. Wash hands, face and exposed body parts with soap & water before & after handling the product.

**Note :**

For Agricultural use only.

**Disclaimer :**

The use and storage of this product is beyond our control. We only assure the uniform quality of the product. The company is not responsible for crop damage occurring due to improper storage or sudden changes in environmental conditions or any natural calamity.