

# CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



syngenta®

ACTIVE CONSTITUENTS: 500 g/kg PYMETROZINE

GROUP	<b>9B</b>	INSECTICIDE
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Controls Cotton Aphids in Cotton

*Syngenta Crop Protection Pty Limited*  
Level 1, 2-4 Lyonpark Road, Macquarie Park NSW 2113

*In a transport emergency dial 000, Police or Fire Brigade*  
*For specialist advice in an emergency only, call 1800 033 111 (24 hours)*

APVMA Approval No.: 55023/5 or 20/0204

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## DIRECTIONS FOR USE

### Restrictions

DO NOT apply more than 2 applications per crop

DO NOT apply consecutive applications

Use FULFILL in accordance with the Cotton Industry's Insecticide Resistance Management Strategy

Crop	Pest	Rate	Critical Comments
Cotton	Cotton aphid ( <i>Aphis gossypii</i> )	400 g/ha Add 0.2%v/v organo-silicone surfactant	Apply to a developing aphid population of no greater than 40% infestation and no more than 5 aphids per leaf. Apply prior to row closure on an actively growing crop before honeydew damage has occurred. Thorough spray coverage is essential. FULFILL should be used according to the Cotton Industry's Best Management Practices Manual and its associated Spray and Drift Management Plan. FULFILL is not a knockdown. DO NOT expect to see a significant reduction in aphid numbers for at least 3 days.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

### WITHHOLDING PERIOD:

**Cotton:** DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.

**DO NOT ALLOW LIVESTOCK TO GRAZE COTTON CROP, STUBBLE OR GIN TRASH WHICH HAS BEEN TREATED WITH THIS PRODUCT.**

## GENERAL INSTRUCTIONS

### Mode of Action

FULFILL has an anti-feeding effect and is not a knockdown. Users should not expect to see a significant reduction in aphid numbers for at least 3 days. Best results are achieved when FULFILL is used early in the season to developing aphid populations of no greater than 40% infestation or no more than 5 aphids per leaf.

### Crop Checking

Different methods of scouting will produce different results. The effect of FULFILL on aphid populations is best demonstrated by recording the percentage reduction in aphid numbers before and after application, as opposed to recording a decline in the percentage of plants infested. The most reliable scouting method is to visually examine 20 to 30 leaves between the 3rd and 5th highest node of the cotton plant and to estimate or count the number of non-winged aphids present. Scouting for aphids should be made over a random sample of plants, representative of the whole crop area.

### Mixing

Add the required amount of FULFILL to clean water in a half-filled spray tank with the agitator or bypass in operation. Maintain agitation while filling the tank with the remainder of the water. Agitate whilst spraying.

### Application

To be effective FULFILL requires thorough spray coverage. Ensure that equipment is properly calibrated to give an even distribution at the correct volume and that it allows an application as a fine spray (ie 200 to 250  $\mu$ m VMD).

**Ground Application:** Apply in a minimum of 100 L water/ha.

**Aerial Application:** Apply in a minimum of 30 L water/ha.

### Compatibility

FULFILL is physically compatible with AFFIRM<sup>®</sup>, AGRIMEC<sup>®</sup> and KARATE<sup>®</sup> with ZEON<sup>®</sup> TECHNOLOGY. As formulations of other manufacturers' products are beyond the control of Syngenta Crop Protection, and water quality varies with location, all mixtures should be tested prior to mixing commercial quantities.

### Insecticide Resistance Warning

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For insecticide resistance management FULFILL Insecticide is a Group 9B insecticide. Some naturally occurring insect biotypes resistant to FULFILL and other Group 9B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if FULFILL and other Group 9B insecticides are used repeatedly. The effectiveness of FULFILL on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Syngenta Crop Protection accepts no liability for any losses that may result from failure of FULFILL to control resistant insects. FULFILL may be subject to specific resistance management strategies. For further information contact your supplier, Syngenta Crop Protection representative or local agricultural department agronomist.

### Aphid Resistance Management

Aphicides from the same chemical group should not be applied consecutively. DO NOT apply more than 2 applications of a product from the same chemical group in 1 season. For managing aphid resistance, organophosphates and carbamates should be regarded as the same chemical group. The first aphicide application of the season must be from a different chemical group than the last aphicide application of the previous season.

### PRECAUTION

DO NOT use human flaggers/markers unless they are protected by engineering controls such as enclosed cabs.

**Re-entry Period:** DO NOT allow entry into treated areas until spray has dried. When prior entry is necessary wear overalls and chemical resistant gloves. Clothing must be laundered after each day's use.

### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

May be hazardous to aquatic invertebrates. DO NOT contaminate streams, rivers or waterways with the chemical or used container. DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent areas, particularly wetlands, waterbodies or watercourses. DO NOT spray across open bodies of water.

### STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight.

#### **For hermetically sealed box:**

Shake empty container into spray tank. DO NOT dispose of undiluted chemicals on site. Puncture or shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

### SAFETY DIRECTIONS

**Will irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container, preparing the spray and using\* the spray, wear:**

- cotton overalls buttoned to the neck and wrist (or equivalent clothing),
- a washable hat, and
- elbow length PVC gloves.

**Wash hands after use. After each day's use, wash gloves and contaminated clothing.**

**\* Pilots of aircraft are not required to wear protective equipment during application.**

### FIRST AID

**If poisoning occurs contact a doctor or Poisons Information Centre. Phone 131 126.**

## **MATERIAL SAFETY DATA SHEET**

If additional hazard information is required refer to the Material Safety Data Sheet. For a copy telephone 1800 067 108 or visit our website at [www.syngenta.com.au](http://www.syngenta.com.au)

## **MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY**

Syngenta has no control over storage, handling and manner of use of this product. Where this material is not stored, handled or used correctly and in accordance with directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Syngenta accepts no liability for any loss or damage arising from incorrect storage, handling or use.

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