MOMENTIVE

Silwet L-77* Ag

Spray Adjuvant use for Insect Control on Cotton Crops





Application

Cotton is a natural and one of the oldest fibers harvested from the cotton plant. Cotton is cultivated with the aid of many insecticides protecting this crop from harmful pests such as boll weevil, bugs, stink bugs, aphids and most notably the larvae of moths and butterflies. The five leading cotton producers are the United States, India, Uzbekistan, Brazil and Pakistan.

Momentive's **Silwet L-77 AG** spray adjuvant is a superspreading silicone surfactant, which typically lowers the surface tension of spray solutions beyond what is achievable with conventional adjuvants. To demonstrate its specifics benefits, Silwet L-77 AG spray adjuvant was trialled in a standard spray treatment with Bifenthrin and *Bacillus thurigiensis* (Bt) insecticides on cotton.

Field Trials			
Location	Brazil		
Crop	Cotton		
Pesticides	Bifenthrin (100g/l) + Bacillus thurigiensis (540g/kg): Rates: 550 ml/ha + 500 ml/ha		
Pests	Spodoptera and Plusias		
Adjuvants	Silwet L-77 AG (40ml/100 liters) and Mineral Oil (500ml/100 liters)		
Application	Tank-mix (Spray Rate: 150 liters/ha)		
Field data	Check (no treatment) BB ⁽¹⁾ + Silwet L-77 BB ⁽¹⁾ + Mineral Oil	Spodoptera Control (%) 33.3 97 76	Plusias Control (%) 17 75.5 65

Note: Test data. Actual results may vary.

 $BB^{(1)} = Bifentrin + (Bt)$

Results

Field trials demonstrated the following benefits resulting from the addition of Silwet L-77 AG spray adjuvant to Bifenthrin and *Bacilus thurigiensis* inseciticides applied on cotton crops:

- 21% and 11% higher control of Spodoptera and Plusias, relative to mineral oil treatment
- 12 times less adjuvant per 100 liter treatment (40ml Silwet L-77 AG spray adjuvant versus 500 ml Oil)
- Similar low spray volume treatments (150 liters/ha)

Customer Service Centers

Worldwide Hotline

4information@momentive.com

+1 614 986 2495 /T +1 800 295 2392

North America

Silicones – Fluids, UA, Silanes, Specialty Coatings, RTV and Elastomers T +1 800 523 5862 / +1 800 334 4674 F +1 304 746 1654 / +1 304 746 1623

Consumer Sealants/ Construction Sealants and Adhesives T +1 877 943 7325 F +1 304 746 1654

Latin America

South America T +55 11 4534 9650 F +55 11 4534 9660

Mexico and Central America T +52 55 2169 7670 F +52 55 2169 7699

Europe, Middle East, Africa and India T +00 800 4321 1000 / +40 21 3111848

1 1000 / +40 21 3111848

Pacific

China T +800 820 0202 / +86 21 3860 4892

Japan T +0120 975 400 / +81 276 20 6182 F +81 276 31 6259

Korea T +82 2 6201 4600 F +82 2 6201 4601

Malaysia T +60 3 9206 1555 F +60 3 9206 1533

Thailand T +66 2207 3456 F +66 2207 3488

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22 Corporate Woods Boulevard Albany, NY 12211 USA momentive.com