

Silwet L-77* Ag

Spray Adjuvant used to lower Application Costs on Citrus



Application

Citrus ranks first in terms of value within the international fruit trade industry, and is an important fruit becoming more global in scope. Brazil is the World's largest orange producer, followed by US and Mexico. In most cases, water consumption tends to be exceptionally high for pesticide applications. This results in unnecessary water waste as well as much higher application costs associated with higher spray volumes.

Momentive's **Silwet L-77 AG** spray adjuvant is a superspreading silicone surfactant that typically lowers the surface tension of spray solutions beyond what is achievable with conventional adjuvants. To demonstrate its specific benefits, the Silwet L-77 AG spray adjuvant was compared to a standard mineral oil (COC) adjuvant in a standard pesticide treatment for citrus. The specific pesticide treatment trialed was designed to control damage from *Colletotrichum acutatum*, *Alternaria alternate*, *Leprous mite*, *White mites*, *Leafminers*, *Fruit borers* and *Diaphorina citri* (greening) insects/fungi attacking citrus fruits.

Field Trials

Location	Brazil
Crop	Citrus
Pesticides	Several Insecticides, Fungicides and Foliar Fertilizers
Pest	<i>Colletotrichum</i> , <i>Diaphorina citri</i> (greening), others
Adjuvant	Silwet L-77 AG (Use rates: 0.025%, 0.05% and 0.10%)
Application	Tank-mix (Spray rates: 6 liters/plant - average)

Note: Test data. Actual results may vary.

Results

Field trials demonstrated the following benefits resulting from the addition of the Silwet L-77 AG spray adjuvant to a standard citrus insecticide/fungicide spray treatment:

- 50% less water use per citrus plant
- 40% lower pesticide rates required for equivalent pest control
- 10% lower spray application costs (on average)

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