

Silwet* 408

Spray Adjuvant to control Pathogen Brown Spot on Apples



Application

China is the largest world producer and consume apple. Aphids are pests causing severe damage to apple. To ensure high crop yields and better quality, growers treat apple orchard with broad-spectrum insecticides, such as Rovral®.

Momentive's **Silwet 408** spray adjuvant can decrease the surface tension of pesticide spray treatments significantly more than other conventional spray adjuvants. This along with its unique Superspreading properties typically leads to improved spray coverage, lower spray volumes, lower application cost. To demonstrate the specific benefits of silicone spray adjuvants, the Silwet 408 spray adjuvant was trialled with 50% Iprodione WP spray treatments on apple trees.

Field Trials

Location	Shandong province, China																	
Crop	Apple																	
Insecticide	Rovral® 50% WP (Iprodione, Bayer) (Pesticide Rates: 3.33 L/Ha ; 2.775 L/Ha ; 2.22 L/Ha)																	
Pest	Pathogen Brown Spot																	
Adjuvant	Silwet 408 (Adjuvant Rates: 0.025%)																	
Application	Tank-mix (Spray Rates: 3330 L/Ha; 2775 L/Ha; 2220 L/Ha)																	
Field Data (10 DAT)																		
	<table border="1"> <tr> <td>Water L/Ha</td> <td>3330</td> <td>3330</td> <td>2775</td> <td>2220</td> </tr> <tr> <td>Active</td> <td>3.33</td> <td>3.33</td> <td>2.775</td> <td>2.22</td> </tr> <tr> <td>Silwet* 408 Adjuvant</td> <td>-</td> <td>0.025%</td> <td>0.025%</td> <td>0.025%</td> </tr> </table>	Water L/Ha	3330	3330	2775	2220	Active	3.33	3.33	2.775	2.22	Silwet* 408 Adjuvant	-	0.025%	0.025%	0.025%		
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Note: Test data. Actual results may vary.

Results

Trials demonstrated the following benefits from the Silwet 408 spray adjuvant addition to Iprodione sprayed on apple plants:

- Treatment containing Rovral +Silwet 408 gave equivalent control to the standard treatment, but the treatment w/ 408 gave:
- 33% less spray volumes, resulting to lower application costs
- 33% lower Iprodione pesticide dose rates with higher performance

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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

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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MOMENTIVE™

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