

# Exirel<sup>®</sup> Insecticide



*Fruit protection starts with Exirel<sup>®</sup>*

Citrus R&D roadshow – October 2017

## Exirel<sup>®</sup> - Features a Unique Combination of Product Benefits

- Cross spectrum activity provides
  - ✓ **Management of Kelly's citrus thrips, Light brown apple moth and Fuller's rose weevil**
- Rapid stop feeding provides
  - ✓ **Protection from feeding damage**
- Translaminar activity & local translocation from foliar application provides
  - ✓ **Rainfastness and improved availability of Exirel<sup>®</sup> to target pests**
- New MOA for Kelly's citrus thrips, Light brown apple moth and Fuller's rose weevil
  - ✓ **Management of pests resistant to other Modes Of Actions**
- Low mammalian toxicity
  - ✓ **Convenience & minimal disruption to field operations**

Photographs  
courtesy of  
R&D Solutions



Kelly's citrus thrips



Light brown apple moth



Fuller's rose weevil

## Exirel® - Label Directions for Citrus

CROP	PEST	RATE/HA	WHP	CRITICAL COMMENTS
Citrus	<p><u>Rasping pest:</u> Kelly's citrus thrips (<i>Pezothrips kellyanus</i>)</p> <p><u>Chewing pests:</u> Light brown apple moth (<i>Epiphyas postvittana</i>) Fuller's rose weevil (<i>Asynonychus cervinus</i>) (<b>Suppression only</b>)</p>	<p><u>Dilute spraying:</u> 75 mL/100 L</p> <p><b>DO NOT</b> apply more than 3 L/ha</p> <p><u>Concentrate spraying:</u> Refer to Mixing / Application section</p> <p>(<b>DO NOT</b> add a Surfactant / Wetting agent)</p>	NIL	<p>A maximum of two (2) applications are to be applied to any one crop per season.</p> <p>Monitor crops from flowering onwards for the presence of Kelly's citrus thrips and Lightbrown apple moth. Apply Exirel®, after flowering, once local pest thresholds are reached. A single application may be suitable where pest pressure is low. Continue to monitor crops and where thrips pressure is moderate to high, apply a second application, no less than 14 days after the first and prior to calyx closure.</p> <p>Fuller's rose weevil: Monitor for weevil emergence. Continue monitoring after spraying. Time at least one application to occur prior to the start of egg lay which usually occurs from late summer and through autumn. <b>DO NOT</b> retreat within fourteen (14) days. The use of Exirel® should be used in conjunction with other weevil control measures. <b>DO NOT</b> use for trunk band spraying.</p>

This means a water volume of no more than 4,000 L/ha

## Exirel® - Management tool for Fuller's rose weevil



### Fisher Navel Orange (16 yo). Griffith (Riverina), NSW.

Riverina IPM Pty Ltd, 2016-17 season. Large plot pseudo-replicated trial. Skirted trees. High later season FRW pressure.

	15.11.16	19.11.16	7.12.16	14.12.16	2.1.17	27.1.17	3.2.17	15.2.17	15.2.17	17.3.17	27.3.17	24.4.17	24.5.17	20.7.17#
Action	FRW beat	Appln	FRW beat	Appln	FRW beat	Appln	Appln	FRW beat	FRW egg raft 1	Appln	FRW beat	FRW beat	FRW beat	FRW egg raft 2
Program 1	0			TBS		Exirel		0	0	TBS	0	0	0	0 a (0%)
Program 2	0			TBS			TBS	0	0	Exirel	1	0	0	0 a (0%)
Program 3	0					Exirel		0	0	Exirel	0	1	0	2 a (0.3%)
Program 4-Std	0			TBS			TBS	0	0	TBS	6	1	2	19 b (3%)
Program 5	0	Exirel					Exirel	1	0		4	0	0	0 a (0%)
Program 6	0	Exirel					Exirel	0	0	TBS	0	0	0	0 a (0%)
Untreated	0		0		5			2	1		28	19	10	197 c (33%)

Industry recognised period for FRW peak adult emergence (mid summer to autumn)

Industry recognised period for FRW peak egg laying (late summer to autumn)

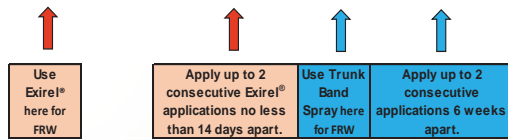
# Exirel® - Spray Timing to Protect Your Citrus from Fuller's rose weevil



Pests	May-mid August Floral induction & initiation.	September Flow ering & fruit set.	October Flow ering & fruit set.	November Flow ering & fruit set.	December	January	February	March	April Fruit maturation	May Fruit maturation	June Fruit maturation & harvest
<b>Chewing pests</b>											
Fuller's Rose Weevil ( <i>Asynonychus cervinus</i> )	Peak adult emergence										



AUE-13-101. Lane orange. FRW damage. Monak, NSW. R&D Solutions.



## Exirel® - Fruit residue considerations

### EXPORT OF TREATED PRODUCE

- Suitable Maximum Residue Limits (MRLs) or import tolerances for produce treated with Exirel® insecticide may not be established in some countries. Consult with your exporter or DuPont before applying Exirel® insecticide to crops from which produce is to be exported.

- The following table presents the most current knowledge (as of August, 2017) for global MRL's in citrus:

CITRUS MAXIMUM RESIDUE LIMITS														
For agricultural chemicals registered for use on Australian oranges, grapefruit, mandarins and lemons, for domestic and export markets														
Chemical	Australia & NZ	Codex	Canada	China <sup>1</sup>	Malaysia <sup>2</sup>	Singapore <sup>4</sup>	Japan	USA	Taiwan <sup>5</sup>	Indonesia <sup>6</sup>	Korea <sup>12</sup>	EU <sup>10</sup>	Thailand <sup>11</sup>	Hong Kong <sup>13</sup>
<b>INSECTICIDES</b>														
cyantraniliprole (Exirel)	0.7	0.7	0.7	Not set	0.7	0.7	0.7	0.7	Not set	Not set	0.7 (M) 0.5 (G) 0.6 (L) 0.7 (O)	0.9	0.7	Not set