

Exirel[®] Insect Control

Powered by Cyazypyr[®] active



CITRUS — FLORIDA

Help your citrus realize its ultimate potential.

Exirel[®] insect control powered by Cyazypyr[®] active is a cross spectrum product that provides protection from key sucking and chewing insect pests. Exirel insect control offers a unique new mode of action for management of Asian citrus psyllid and reduces the opportunity for transmission of citrus greening. It also minimizes leaf damage and entry wounds for canker through control of citrus leafminer, resulting in an improved harvest this year and enhanced grove health long term.

Exirel insect control

Active ingredient name: Cyantranilprole

Chemical class: IRAC Group 28, *anthranilic diamide*

Formulation: 0.83 lb./gal. SE (suspoemulsion)

Signal word: Caution

REI: 12 hours

PHI: One day

Registered by the EPA under its Reduced Risk.
Pesticide Program for use on citrus.¹



Key Benefits of Exirel insect control

When applied early in the pest infestation cycle, Exirel insect control helps manage pest populations, helps keep feeding damage to a minimum and reduces transmission of insect-vectored pathogens.

Reduce Tree Stress

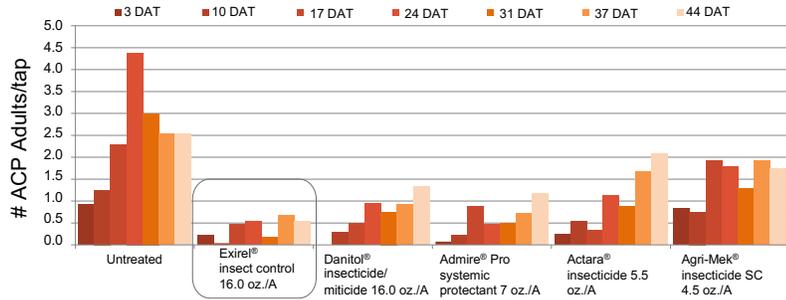
- Protects expanding flush through local systemic movement.
- Rapid feeding cessation minimizes leaf damage and entry wounds for canker through control of citrus leafminer.
- Control of both psyllid adults and nymphs for up to four weeks on average.
- Unique cross spectrum control of chewing and sucking pests, such as diaprepes root weevil adults, cotton aphid and citrus thrips (foliage feeding only).
- Impact on multiple life stages including pest reproduction.

Sustains Long-Term Grove Viability

- Overall reduction in psyllid populations.
- New MOA for sucking insects is ideal for resistance management.
- Worker protection standard profile: One-day PHI; 12- hour REI; Caution signal word; standard PPE.
- Strong fit in IPM programs with moderate to no impact on parasitoids and predators.
- Minimum impact on *Tamarixia radiata*, a parasitic wasp released by USDA.

Asian Citrus Psyllid Control in Citrus

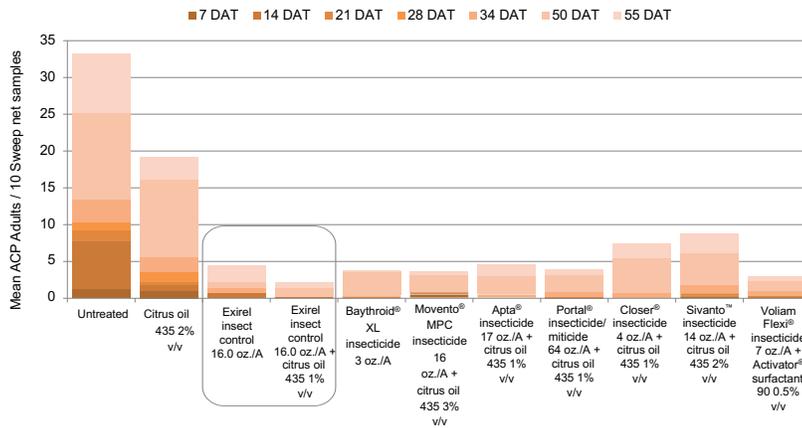
Immokalee, FL, University of Florida, SWFREC IFAS UF, 2012



The ACP protection is outstanding and lasts for up to four weeks on average.

Asian Citrus Psyllid Control in Citrus

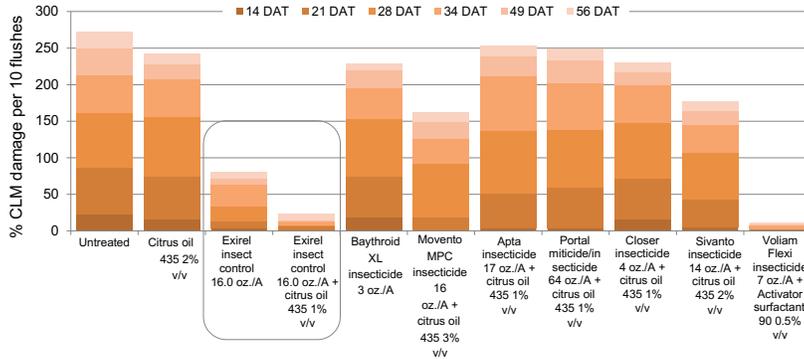
Winter Garden, FL, University of Florida, IFAS, Lake Alfred 2013 (SOW-13-015)



In this field test conducted by the University of Florida, Orange County, FL in 2013, Exirel insect control at 16 oz./A alone or plus oil delivered outstanding control of adult Asian citrus psyllid adults.

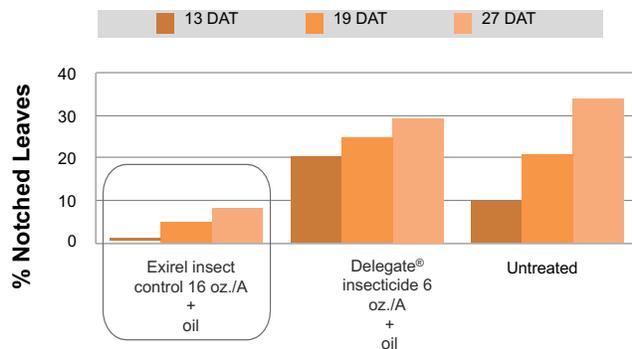
Citrus Leafminer (CLM) Control in Citrus

Winter Garden, FL, University of Florida, IFAS, Lake Alfred 2013 (SOW-13-015)



In this field test conducted by the University of Florida, Orange County, FL in 2013, Exirel insect control at 16 oz./A plus oil delivered outstanding control of citrus leafminer.

Reducing Stress by Reducing Notched Leaves from Diaprepes Root Weevil Adults in Citrus



In this field study conducted in Bradenton, FL in 2014, Exirel insect control at 16 oz./A plus oil delivered outstanding and long-lasting control of diaprepes root weevil adults, superior to that of Delegate insecticide.

Exirel® insect control powered by Cyazypyr® active directions for use on citrus crops

Target pest	Exirel insect control rate		PHI (days)	REI (hours)	Restrictions and comments
	Lb. ai/A	Fl. oz./A			
Asian citrus psyllid ² Citrus thrips Citrus leafminer Cotton aphid ³ Diaprepes root weevil adults Orange dog caterpillar ⁴	0.088–0.133	13.5–20.5	1	12	<ul style="list-style-type: none"> • Minimum application interval between treatments is seven days. • Do not apply a total of more than 61.5 fl. oz. of Exirel insect control or 0.4 lb. active ingredient cyantraniliprole-containing products per acre per calendar year. • Make no more than two applications of Exirel insect control (cyantraniliprole) or other Group 28 products per generation to the same insect species on a crop. • Application to the next generation of target pest(s) must be made with an effective product with a different mode of action i.e., a non-Group 28 insecticide. • Spray volume: Thorough coverage is essential to achieve best results. Where higher spray volumes are used, apply a higher rate in the specified rate range. For best results use 100–150 GPA. Do not apply less than 30 GPA by ground.

Citrus Fruit (EPA Crop Group 10-10):

Australian desert lime; Australian finger lime; Australian round lime; Brown River finger lime; calamondin; citron; citrus hybrids; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime; Mediterranean mandarin; Mount White lime; New Guinea wild lime; orange, sour; orange, sweet; pummelo; Russell River lime; satsuma mandarin; sweet lime; tachibana orange; Tahiti lime; tangelo; tangerine (mandarin); tangor; trifoliate orange; uniq fruit.

Spray Preparation

Acidification of spray tank: If the pH of the spray tank after all products have been added and mixed is above pH 8, adjust to pH 8 or less using a registered acidifying agent. If the spray tank pH is 8 or less, no adjustment of the spray tank pH is necessary. Spray tanks of pH 8 or less can be held for up to eight hours before spraying. Do not store the spray mixture overnight in the spray tank.

Compatibility: Since formulations may be changed and new ones introduced, premix a small quantity of a desired tank mix and observe for physical incompatibility e.g., settling out, flocculation etc. Spray volumes of less than 3 gallons of water and tank mixtures of more than two products can increase the chances of incompatible spray mixtures.

¹ Contact your FMC representative for the complete list of crops registered in the Reduced Risk Pesticide Program.

² Asian citrus psyllid: Do not apply less than two gallons of finished spray solution per acre. Use equipment that generates a particle size greater than 90 microns. Apply when wind is less than 10 miles per hour.

³ For best performance, use with an effective adjuvant. See "Use of Adjuvants" section on Exirel insect control label.

⁴ This recommendation is permitted under FIFRA Section 2ee for control of orange dog caterpillar in citrus in Arizona, California, Texas, and Florida. This recommendation has not been submitted to or approved by the EPA. The 2(ee) expiration date is 12/31/2019.

For more information, contact your local FMC retailer or representative about Exirel insect control from FMC and visit us at FMCcrop.com.

Danitol, Agri-Mek and Baythroid insecticides are Restricted Use Pesticides. Always read and follow label directions and precautions for use. Some products may not be registered for sale or use in all states. As of November 1, 2017, the USEPA registration for DuPont™ Exirel® insect control with Cyazypyr® active was sold to FMC by DuPont. FMC, Cyazypyr and Exirel are trademarks of FMC Corporation or an affiliate. Actara, Agri-Mek and Voliam Flexi are trademarks of Syngenta Group Company. Activator is a registered trademark of Loveland Products Inc. Admire, Movento, Sivanto and Baythroid are registered trademarks of Bayer CropScience. Apta and Portal are trademarks of Nichino America Inc. Closer and Delegate are trademarks of The Dow Chemical Company. Danitol is a registered trademark of Valent USA Inc. ©2018 FMC Corporation. All rights reserved. 18-FMC-0143 05/18

