

syngenta®

# Insecticide in Citrus

# **Technical Overview: California**

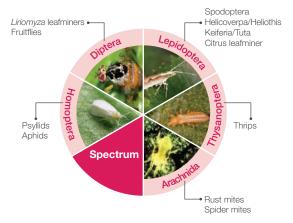
Minecto<sup>™</sup> Pro insecticide, the premix formulation of cyantraniliprole and abamectin, offers control of key citrus pests, including Asian citrus psyllids, mites, citrus thrips and leafminers.

Its complementary active ingredients broaden the activity spectrum compared to other stand alone products. With two translaminar modes of action, Minecto Pro creates a reservoir of active ingredients, offering extended residual control of pests. Insects and mites that consume the leaf ingest the active ingredients, stop feeding, and die within one to several days.

#### **Technical features**

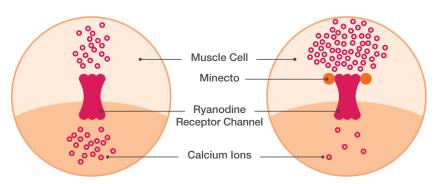
- Broad-spectrum, foliar-applied product for specialty and vegetable crops
- Two complementary modes of action
- A ratio of mixture partners that allows for full targeted rates of individual active ingredients
- Mite control equivalent to abamectin
- Protection against problematic sucking/rasping pests like mites, psyllids and thrips

## **Activity Spectrum**



#### **Mode of Action**

Calcium is released, muscle contracts



Cyantraniliprole is a ryanodine receptor modulator. It binds to the insect's ryanodine receptor in muscle cells and causes the channel to open. This results in a flow of calcium ions from internal stores to the cytoplasm causing muscle paralysis, cessation of feeding and ultimately insect death.

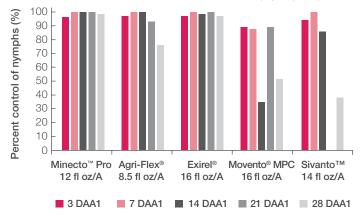


### Insects controlled

Citrus leafminers
Citrus rust mites
Asian citrus psyllids
Broad mites
Citrus bud mites
Citrus thrips
Cotton aphids
Twospotted spider mites

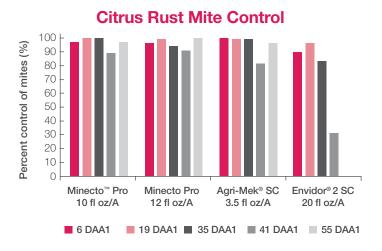


# **Asian Citrus Psyllid Control** (nymphs)



Foliar application: One application on August 3, 2015; Cooperator trial, FL All treatments included an MSO/NIS blend adjuvant at 0.25% v/v. Number of nymphs/10 flushes in check:

3 DAA1 – 229.3; 7 DAA1 – 333.4; 14 DAA1 – 70.2; 21 DAA1 – 41.2; 28 DAA1 – 270.1 DAA= Days after application



Foliar application: One application on June 6, 2015; USVE0I0062015 – Internal Syngenta trial, FL  $\,$ 

All treatments included Hort Oil at 2% v/v.

Number of mites/10 lens fields in check:

6 DAA1 – 512.5; 19 DAA1 – 1117.5; 35 DAA1 – 243.8; 41 DAA1 – 72.5; 55 DAA1 – 66.2 DAA= Days after application





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