Minecto® Pro

syngenta®

Delivering exceptional control of difficult to manage pests in pome fruit

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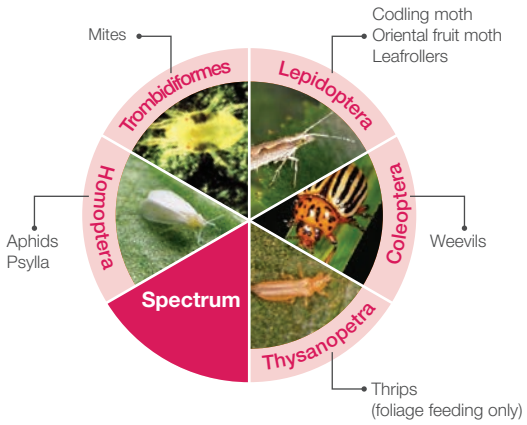
Minecto Pro provides exceptional control of the toughest pests in pome fruit

A broad-spectrum, foliar insecticide, Minecto® Pro controls the most important pome fruit pests including codling moth and oriental fruit moth, as well as difficult-to-control sucking insects such as mites and pear psylla. Harnessing the power of two complementary active ingredients, cyantraniliprole and abamectin, into one convenient premix formulation, Minecto Pro protects against multiple pest populations that overlap or occur at the same time.

Features and benefits

- Offers superior broad-spectrum control in pome fruit
- Controls the most problematic sucking/rasping/chewing pests like mites, psylla, and thrips (foliage feeding only)
- Contains the active ingredient cyantraniliprole, a second generation diamide that provides a broader spectrum of control than first generation diamides
- Provides two complementary modes of action (cyantraniliprole and abamectin), carefully selected to help control overlapping or simultaneous pest populations
- Allows for robust use rates of each active ingredient

Activity spectrum



Best use guidelines

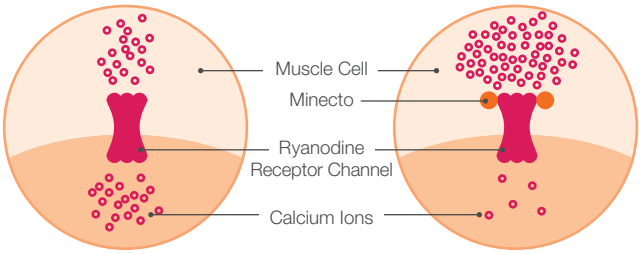
1. Minecto Pro must always be mixed with a non-phytotoxic, non-ionic activator type wetting, spreading and/or penetrating spray adjuvant or horticultural oil (not a dormant oil).
2. When pest populations are high, use the highest rate allowed for that pest.
3. Thorough coverage is essential to obtain best results. Select a spray volume appropriate for the size of trees and density of foliage but do not apply diluted product in a volume less than 40.0 gal/A.
4. Apply by ground only.
5. Do not make more than 2 sequential applications.
6. Application is not permitted from onset of flowering until after petal fall is complete.

Technical profile

Chemistry	Cyantraniliprole – IRAC Group 28 Abamectin – IRAC Group 6
Mode of action	Cyantraniliprole – 2nd generation diamide with a novel mode of action on insect ryanodine receptors Abamectin – A mectin with a unique agonist mode of action on the neurotransmitter gamma-aminobutyric acid (GABA)
Formulation	Formulated as a suspension concentrate (SC) and contains 1.13 lb cyantraniliprole and 0.24 lb abamectin per gallon
Systemicity	Translaminar movement
Precautions	Signal word: Warning
Re-entry interval (REI)	12 hours

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**.

Label at a glance*

Rate (fl oz/A)	Codling moth European apple sawfly European red mite Green fruitworm McDaniel spider mite Obliquebanded leafroller Oriental fruit moth Pear rust mite	Redbanded leafroller Spotted tentiform leafminer Tufted apple budmoth Twospotted spider mite Variegated leafroller White apple leaf hopper Yellow mite	8.0 – 12.0
	Pear psylla Plum curculio Rosy apple aphid	**Suppression:** Apple maggot Thrips (foliage feeding only)	10.0 – 12.0
Maximum rate per application (fl oz/A)	12.0		
Minimum spray volume gallons per acre (GPA)	40.0 (ground)		
Preharvest Interval (PHI)	28 days		
Adjuvants	Always mix with a non-phytotoxic, non-ionic activator type wetting, spreading and/or penetrating spray adjuvant or horticultural oil (not a dormant oil) as specified on the label. Do not use binder or sticker type adjuvants because these type adjuvants may reduce translaminar movement of the active ingredient into the plant, and can result in reduced efficacy.		
Minimum application interval	21 days		

*Always consult the individual product label for complete use directions and application information

Premier insecticide timing chart for Syngenta brands in pome

Dormant	Green Tip	Tight Cluster	Pink	Bloom	Petal Fall	Early Cover Sprays	Late Cover Sprays	Harvest
					Minecto® Pro			
						VoliamFlexi®		

Insects controlled

Apples

Codling moth
European apple sawfly
European red mite
Green fruitworm leafroller
McDaniel spider mite
Obliquebanded leafroller
Oriental fruit moth
Redbanded leafroller
Spotted tentiform leafminer
Tufted apple budmoth
Twospotted spider mite
Variegated leafroller
White apple leafhopper
Plum curculio
Rosy apple aphid

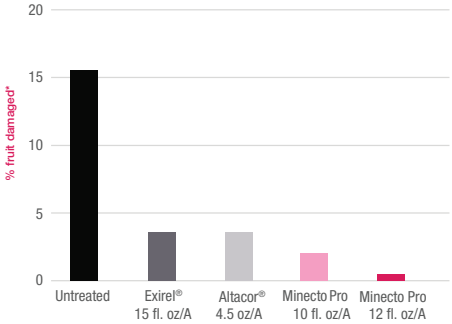
Suppression:
Apple maggot
Thrips (foliage feeding only)

Pears

Codling moth
European red mite
Green fruitworm
McDaniel spider mite
Obliquebanded leafroller
Oriental fruit moth
Pear rust mine
Western tentiform leafminer
Twospotted spider mite
Yellow mite
Pear psylla
Plum curculio

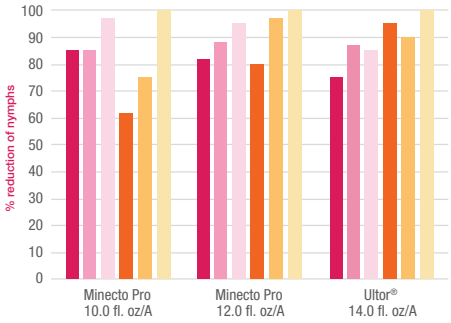
Suppression:
Thrips (foliage feeding only)

Codling moth control in apples (fruit damage)



*tunnel entries
All treatments included NIS at 0.25% v/v
Foliar application: Three applications on a 13-16 day interval
USWF0I3562015 – Internal Syngenta trial, WA

Pear psylla control (nymphs)



No. of nymphs/5 leaves in check:	
4 DAA1	7.0
7 DAA1	9.6
14 DAA1	9.5
21 DAA1	6.2
8 DAA2	3.6
14 DAA2	1.6

Note: Minecto Pro treatments included NIS @ 0.25% v/v; Ultor included Oil @ 1% v/v
Foliar application: 2 applications on 21-day interval beginning April 10, 2015
USWF0I3512015 – Cooperator trial, WA

For more information visit **www.SyngentaUS.com/MinectoPro.**

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