



Now registered for  
**Greenhouse  
Vegetables**

Next generation insect control

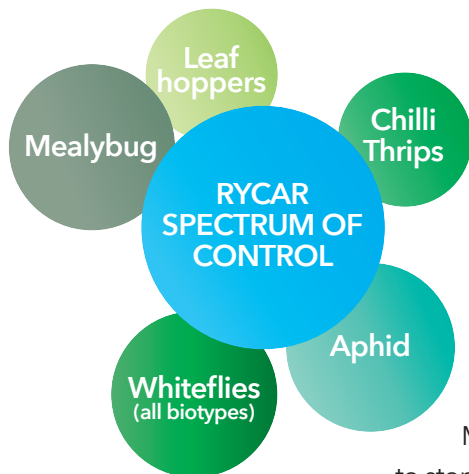
# Rycar<sup>®</sup> Insecticide

Product Use Guide



## The Next Generation

Rycar Insecticide is a truly unique chemistry. Through extensive university and IR-4 testing, Rycar has shown to be extremely safe to the numerous plant species and just as devastating to piercing-sucking type insects such as; whiteflies (all biotypes), aphids, mealybugs, leafhoppers, and chilli thrips.



Rycar's unique chemistry is a completely new tool to the ever growing resistant chemistries. In fact, Rycar has shown great activity to pests that are resistant to pyrethroids, carbamates, organophosphates and neonicotinoids. Consequently, Rycar provides the basis for a strong, sound IPM program.

### How Rycar Works

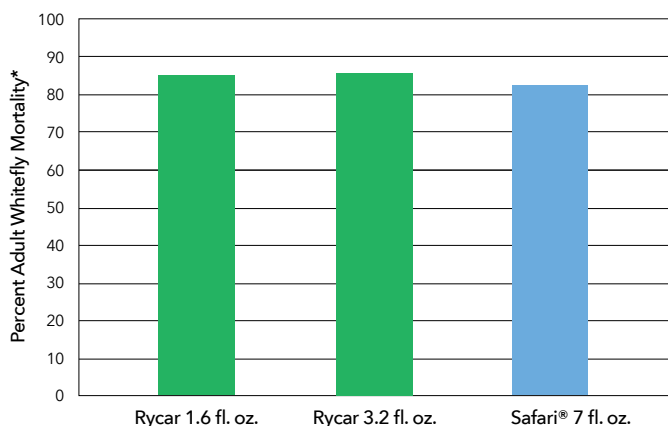
Target pests exposed to Rycar via contact or ingestion, stop feeding within 2 hours. Rycar's behavior modifying effect immediately sends the insects into a disoriented state (ataxia) where they are unable to eat and struggle to fly and crawl normally.

Mortality of the target insect follows within 48 hours. Bottom line, Rycar works quickly to stop pests from eating your profits!

Rycar's fast acting behavior modification not only prevents further crop damage due to the rapid stop-feed, but the immediate impact also stops the pests from traveling from plant to plant. Reducing insect movement significantly reduces vector-virus transmission. As vector-virus transmission continues to trouble more and more growers, Rycar becomes an irreplaceable tool.

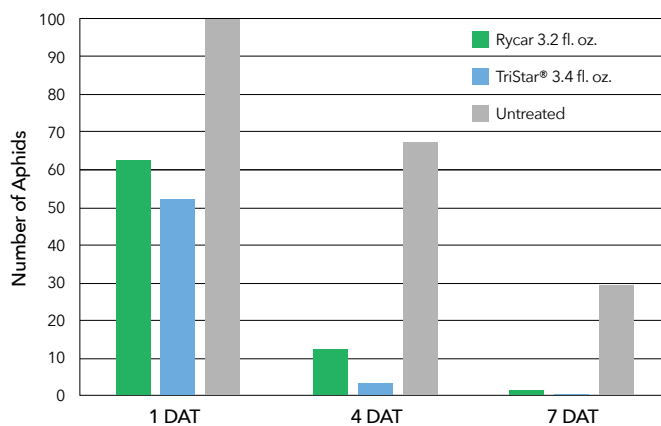
Rycar Facts	
Use Sites	Greenhouse, Greenhouse vegetables
Formulation	20% Suspension Concentrate
Active Ingredient	Pyrifluquinazon
IRAC Group	9B
Restricted-Entry Interval (REI)	12 hours
Signal Word	Caution
Packaging	8 fl. oz. container

Adult whiteflies are easily controlled for up to 3 weeks with Rycar, even when compared with a systemic neonicotinoid insecticide.



\*Adult silverleaf whiteflies on cantelope under field conditions. Mortality reported was evaluated 19 days after treatment. Nichino America, 2013

Rycar provides similar efficacy as industry standards for aphid control.



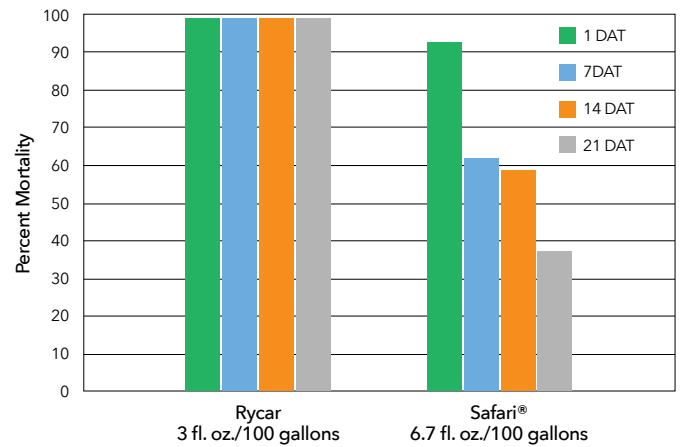
Aphid species in this test was Rosy Apple Aphid, *Dysaphis plantaginea*. Rycar and acetamiprid are not statistically different in this study. Nichino America, 2013

## Rycar works within hours to stop further damage to plants.



\* Rycar was applied at 3.2 fl. oz./100 gallons  
 \*\* Safari was applied at 8 fl. oz./100 gallons  
 Nihon Nohyaku Co.

## Residual activity on Q-biotype whitefly (*Bemisia tabaci*).



Nihon Nohyaku Co., 2009

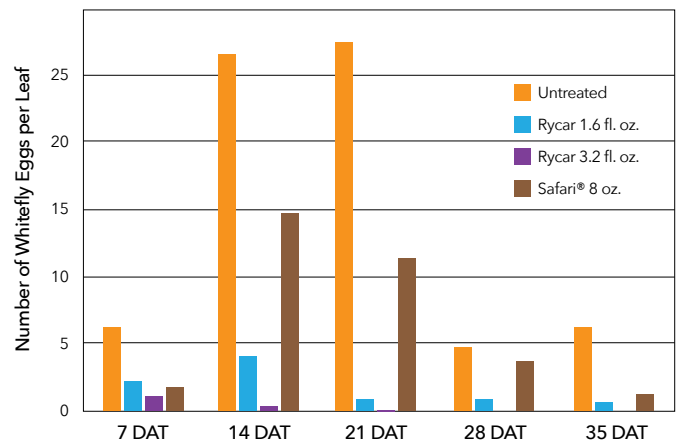
## Rycar in the Plant

Rycar has translaminar activity that allows penetration of the waxy leaf cuticle and movement inside the plant leaf. When piercing-sucking pests feed on treated leaves, the target pests ingest Rycar and are subject to its effects. This provides an enormous benefit when controlling those hard-to-reach pests that feed from the lower leaf surface (abaxial). After application, Rycar can provide 21 days or more of control. To sum it all up, Rycar provides complete leaf protection.

## Beneficial Safety

As aggressive as Rycar is against insect pests, it is just as gentle on beneficial mites and insects. Beneficial insects play an important and growing role in a complete IPM program. University and IR-4 research has shown Rycar to have no effect on *Hypoaspis miles*, *Amblyseius* species, *Orius* species and pollinators among others.

## Rycar controls all whitefly life stages.



Egg, immature, and adult whitefly counts were made and averaged every 7 days after initial treatment.  
 Osborne, 2015

Beneficial species		Life stage	Effect of Rycar	
Lady bug	<i>Harmonia axyridis</i>	Adult	No effect	■
Predatory bug	<i>Orius insidiosus</i>	Adult	No effect	■
	<i>Orius sauteri</i>	Adult	No effect	■
	<i>Orius strigicollis</i>	Nymph	No effect	■
Aphid midge	<i>Aphidoletes aphidimyza</i>	Larva	No effect	■
Predatory mite	<i>Hypoaspis miles</i>	Adult	No effect	■
	<i>Amblyseius cucumeris</i>	Adult	No effect	■
	<i>Amblyseius californicus</i>	Adult	No effect	■
	<i>Amblyseius swirskii</i>	Adult	No effect	■
	<i>Phytoseiulus persimilis</i>	Adult	No effect	■
Wolf spider	<i>Pardosa pseudoannulata</i>	Adult	No effect	■
Silkworm	<i>Bombyx mori</i>	Larva	No effect	■
Bumblebee	<i>Bombus ignitus</i>	Adult	No effect	■

■ No effect    ● Some Effect    ✗ Lethal

## Use Rates

Rycar Rates		
Pest Controlled	Rate (fl. oz./100 gallons)	Rate (mL/gallon)
Whiteflies	1.6 to 3.2 fl. oz.	0.47 to 0.95 mL
Aphids		
Leafhoppers	2.4 to 3.2 fl. oz.	0.71 to 0.95 mL
Chilli Thrips		
Mealybugs	6.4 fl. oz.	1.89 mL

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