



The Next Generation

Rycar Insecticide is a truly unique chemistry. So unique, the Insecticide Resistance Action Committee (IRAC) has yet to determine a new chemical group for Rycar and has classified it as UN (unknown). Through extensive university and IR-4 testing, Rycar has shown to be extremely safe to the numerous plant species tested and just as devastating to piercing-sucking type insects such as; whiteflies (all biotypes), aphids, leafhoppers and mealybugs.

Mealybug

RYCAR
SPECTRUM OF
CONTROL

Aphid

Whiteflies
(all biotypes)

RYCAR
SPECTRUM OF
CONTROL

Aphid

Ryc

One of the biggest features of Rycar's unique chemistry comes as a completely new alternative 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

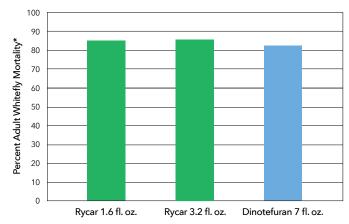
Target pests exposed to Rycar via contact or ingestion, stop feeding within 2 hours. Rycar's behavior modifying effect immediately sends the insects into a disoriented state (ataxia) where they are unable to eat and struggle to fly and crawl normally.

Mortality of the target insect follows within 48 hours. You can sleep at ease, knowing those critters are no longer eating away at your profits!

Rycar's fast acting behavior modification not only prevents further crop damage due to the stop-feed, but the immediate impact also stops the pests from traveling from plant to plant which 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	Greenhouses	
Formulation	20% Suspension Concentrate	
Active Ingredient	Pyrifluquinazon	
Mode of Action (IRAC Code)	Unknown (UN)	
Restricted-Entry Interval (REI)	12 hours	
Signal Word	Caution	
Packaging	8 fl. oz. container	

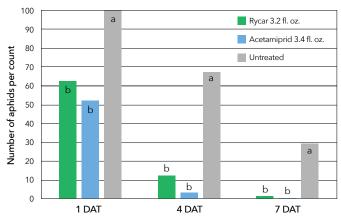
Adult whiteflies are easily controlled for up to 3 weeks with Rycar, even when compared with a systemic neonicotinoid insecticide.



*Adult silverleaf whiteflies on cantelope under field conditions. Mortality reported was evaluated 19 days after treatement.

Nichino America, 2013

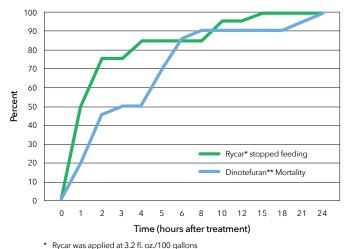
Rycar provides similar efficacy as acetamiprid for aphid control 7 Days After Treatment (DAT) with some reduction in population as early as 1 DAT



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

Nichino America, 2013

Damage to plants from whiteflies stops quickly with Rycar, even when compared to neonicotinoids.



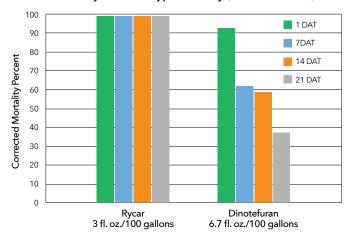
** Dinotefuran was applied at 8 fl. oz./100 gallons

Nihon Nohyaku Co.

Rycar in the Plant

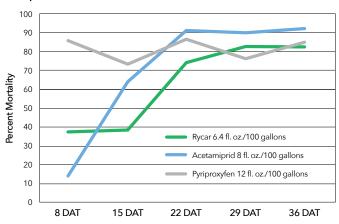
Rycar is effective via contact on the leaf surface and is also translaminarly active. Rycar's translaminar movement allows it penetrate the waxy leaf cuticle and move inside the plant leaf. When piercing-sucking pests feed on treated leaves, the target pests ingest Rycar and are subject to its affects. This provides a huge benefit when controlling those hard-to-reach pests that feed from the lower leaf surface (abaxial). Bottom line, Rycar provides complete leaf protection. After application, Rycar can provide 21 days or more of control.

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



Nihon Nohyaku Co., 2009

Medeira mealybug control with Rycar is similar to the competition.



Two applications were made for each treatment in 14 day intervals

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*, *Amblyseuis* species, *Orius* species and pollinators among others.

Benefic	ial species	Life stage	Effect of Rycar
Lady bug	Harmonia axyridis	Adult	No effect
Predatory bug	Orius insidiosus	Adult	No effect
	Orius sauteri	Adult	No effect
	Orius strigicollis	Nymph	No effect
Parasitic wasp	Encarsia formosa	Pupa	Some effect
Aphid midge	Aphidoletes aphidimyza	Larva	No effect
Predatory mite	Hypoasis miles	Adult	No effect
	Amblyseius cucumeris	Adult	No effect
	Amblyseius californicus	Adult	No effect
	Amblyseius swirskii	Adult	No effect
	Phytoseiulus oersimilis	Adult	No effect
Wolf spider	Pardosa pseudoannulata	Adult	No effect
Silkworm	Bombyx mori	Larva	No effect
Bumblebee	Bombus ignitus	Adult	No effect

Ornamental Rates

Rycar Rates		
Pest Controlled	Dilution Rate (fl. oz./100 gallons)	Dilution 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
Chili Thrips		
Mealybugs	6.4 fl. oz.	1.89 mL

Using Rycar

Angelonia Holly Petunia Begonia Holly, Blue Pine

Chrysanthemum Holly, Chinese Pittosporum

Coleus Impatiens Privet

Cosmos Impatiens, New Guinea Privet, New Mexican

Dahlia Madwort Rose

Daisy, TransvaalMagnolia, SouthernSnapdragonDianthusMapleVerbenaEuonymusMarigoldsWax MyrtleGeranium, ZonalNandinaZinnia

Gladiolus Pansy

Local conditions can influence crop tolerance and may not match those under which these species were tested. Before using Rycar insecticide, test the product on a small sample of the crop to be treated.



SePRO Corporation

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