

POULTRY

# INSECTICIDES QUICK GUIDE

**Elanco**

# INSECTICIDE QUICK GUIDE

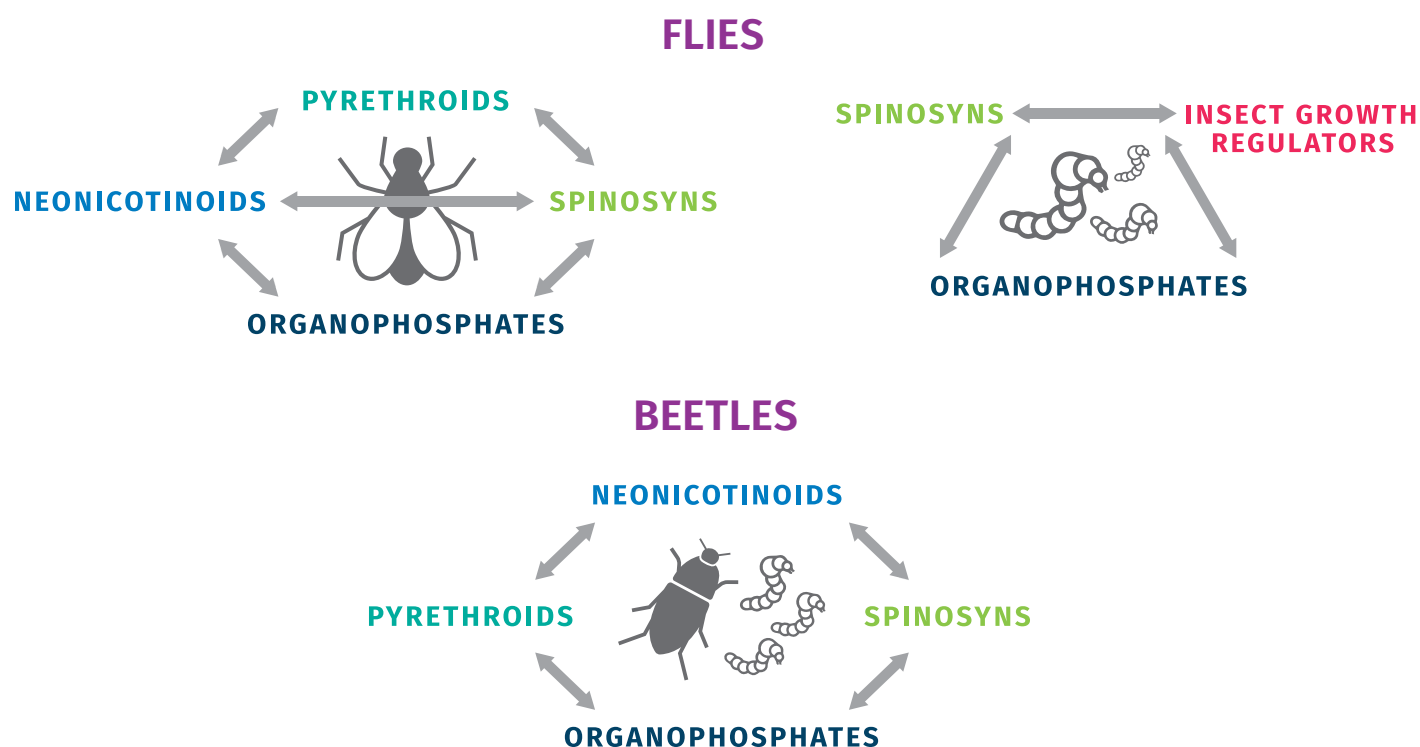
## TARGET. CONTROL. PROTECT.

### Have Confidence in Your Insecticide Program

- 1 Target pests the right way. With a broad portfolio of chemical classes, modes of action and operational applications, Elanco's insecticide portfolio allows you to build a pest management protocol to match your needs.
- 2 Rotating chemical classes ensures continued efficacy for pest prevention or control on your operation.
- 3 Elanco's extensive selection of insecticides, as part of our overall poultry portfolio and backed by our team of experts, offers confidence to manage and maintain your poultry operation.

## Manage Resistance With Integrated Pest Management (IPM)

Using an insecticide with the same chemical class for a long period of time can allow insects to build up a resistance to that specific class. Elanco offers effective insecticide solutions in all chemical classes with various modes of action to meet your operation's pest management needs.



# FIND YOUR SOLUTION

With the Elanco Insecticide Portfolio

	Target	Intended Use	Operational Application	Chemical Class	Active Ingredient	Key Differentiators
		Premise	 Spray		Thiamethoxam (10.0%) (Z)-9-Tricosene (0.05%)	<ul style="list-style-type: none"> <li>• Fast find, quick kill.</li> <li>• Ensures that a lethal dose of active ingredient is consumed.</li> </ul>
		Premise	 Dust		Tetrachlorvinphos (6.0%)	<ul style="list-style-type: none"> <li>• Can be used for banded applications, roost paint, group treatment and individual application.</li> <li>• No withholding period from last application to slaughter.</li> </ul>
		Premise	 Spray		Beta-Cyfluthrin (11.8%)	<ul style="list-style-type: none"> <li>• Targets pests in all cracks and crevices.</li> <li>• Long-lasting residual control.</li> </ul>
		Premise	 Spray		Beta-Cyfluthrin (11.8%)	<ul style="list-style-type: none"> <li>• General surface, spot, mist, or crack and crevice spray.</li> <li>• Will not stain or cause damage to surfaces where water alone causes no damage.</li> </ul>
		Premise, On-Animal	 Spray		Spinosad (44.2%)	<ul style="list-style-type: none"> <li>• Flexible use options.</li> <li>• Can be used in rotation with adulticides or larvicides.</li> </ul>
		Feed-through	 Feed Additive		Cyromazine (1.0%)	<ul style="list-style-type: none"> <li>• Easy, convenient application saves time and labor.</li> <li>• Novel mode of action disrupts the molting process, which is essential for the fly life cycle.</li> </ul>
		Premise	 Scatter, Spray		Cyromazine (2.0%)	<ul style="list-style-type: none"> <li>• Proactive control early in a fly's life cycle.</li> <li>• Novel mode of action disrupts the molting process, which is essential for the fly life cycle.</li> </ul>

 Neonicotinoids


 Spinosyns

 Organophosphates

 Beetles






















 Flies

 Pyrethroids

 Insect Growth Regulators (IGR)

# FIND YOUR SOLUTION

With the Elanco Insecticide Portfolio

	Target	Intended Use	Operational Application	Chemical Class	Active Ingredient	Key Differentiators
<b>Permethrin® Fly &amp; Louse Dust</b>		On-Animal	 Dust		Permethrin (0.25%)	<ul style="list-style-type: none"> <li>• Ready-to-use dust formulation.</li> <li>• Controls Northern fowl mites in poultry.</li> </ul>
<b>Permethrin® II</b>		Premise, On-Animal	 Spray, Mist, Fog		Permethrin (10.0%)	<ul style="list-style-type: none"> <li>• Convenient to apply as a high- or low-pressure spray, or as a spot spray directly on an animal (read label before use).</li> <li>• Broad spectrum for optimal control.</li> </ul>
<b>QuickBayt® Fly Bait</b>		Premise	 Scatter		Imidacloprid (0.50%), (Z)-9-Tricosene (0.10%)	<ul style="list-style-type: none"> <li>• Starts killing nuisance flies fast.</li> <li>• Contains two fly attractants to lure flies.</li> <li>• Contains Bitrex®, a bitter substance to help prevent accidental ingestion by children or animals.</li> </ul>
<b>QuickBayt® Spot Spray</b>		Premise	 Spray		Imidacloprid (10%), (Z)-9-Tricosene (0.10%)	<ul style="list-style-type: none"> <li>• Ready-to-use fly bait.</li> <li>• Flexible application with dry or wet options.</li> </ul>
<b>Rabon® 50 WP Insecticide</b>		On-Animal, Premise	 Spray		Tetrachlorvinphos (50.0%)	<ul style="list-style-type: none"> <li>• Water-soluble powder for multiple application methods.</li> <li>• Controls a broad range of pests.</li> </ul>
<b>Ravap® EC *</b>		On-Animal, Premise	 Spray		Tetrachlorvinphos (23%), Dichlorvos (5.3%)	<ul style="list-style-type: none"> <li>• Contains two insecticides for dual-action control.</li> <li>• Targets a variety of pests.</li> </ul>
<b>Vapona® Concentrate Insecticide *</b>		Premise	 Spray, Mist		Dichlorvos (40.2%)	<ul style="list-style-type: none"> <li>• Must be diluted prior to application.</li> <li>• Controls various pests such as flies, gnats and mosquitoes around premises, as well as roaches, sowbugs and ants in poultry houses.</li> </ul>

 Neonicotinoids

 Spinosyns

 Organophosphates



Beetles



Flies

 Pyrethroids

 Insect Growth Regulators (IGR)

\*Restricted Use Pesticide

# EFFECTIVE FLY CONTROL PRODUCTS FOR POULTRY

The products in the chart below are color-coded by chemical class. Use this chart to identify which chemical class your current product uses.



CATEGORY	BRAND	COMPANY	ACTIVE INGREDIENT(S)	CHEMICAL CLASS
FLY BAIT	QuickBait® Fly Bait	Elanco	Imidacloprid, (Z)-9-tricosene	Neonicotinoid
	Starbar® QuikStrike® Fly Scatter Bait	Wellmark International	Dinotefuran, (Z)-9-tricosene	Neonicotinoid
	Starbar® Golden Malrin® Fly Bait	Wellmark International	Methomyl, (Z)-9-tricosene	Carbamate
	Zyrox® Fly Granular Bait	Syngenta	Cyantranilprole	Diamide
LARVICIDES	Elector® PSP	Elanco	Spinosad	Spinosyn
	Larvadex®	Elanco	Cyromazine	IGR
	Neporex® 2 SG	Elanco	Cyromazine	IGR
SPRAYS	Agita® 10 WG	Elanco	Thiamethoxam	Neonicotinoid
	Dominion®	Control Solutions, Inc.	Imidacloprid	Neonicotinoid
	Macho®	Agri Star	Imidacloprid	Neonicotinoid
	QuickBait® Spot Spray	Elanco	Imidacloprid, (Z)-9-tricosene	Neonicotinoid
	CyLence Ultra™ Pest Control Concentrate	Elanco	Beta-cyfluthrin	Pyrethroid
	CyLence Ultra™ Premise Spray	Elanco	Beta-cyfluthrin	Pyrethroid
	Grenade® ER Insecticide	Merck	Lambda-cyhalothrin	Pyrethroid
	Permethrin® II	Elanco	Permethrin	Pyrethroid
	Tengard®	United Phosphorus, Inc.	Permethrin	Pyrethroid
	Durashield®*	Whitmire Micro-Gen	Chlorpyrifos	Organophosphate
	Pyrophos*	Multiple	Chlorpyrifos	Organophosphate
	Rabon® 50 WP Insecticide	Elanco	Tetrachlorvinphos	Organophosphate
	Ravap® EC*	Elanco	Tetrachlorvinphos, Dichlorvos	Organophosphate
	Vapona® Concentrate Insecticide*	Elanco	Dichlorvos	Organophosphate
	Elector® PSP	Elanco	Spinosad	Spinosyn
	ULD® BP-100	MGK	Pyrethrin	Natural pyrethrin
	Riptide®	MGK	Pyrethrin	Natural pyrethrin
	Evergreen®	MGK	Pyrethrin	Natural pyrethrin

\* **RESTRICTED USE PESTICIDE:** Due to primary eye and primary dermal toxicity. For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification.

# DARKLING BEETLE CONTROL FOR POULTRY

Brand	Manufacturer	Active Ingredient(s)	Chemical Class	Insecticide Resistance Action Committee Mode of Action Group <sup>3</sup>
<b>Elector® PSP Premise Insect Control Agent<sup>1</sup></b>	<b>Elanco</b>	<b>Spinosad (44.2%)</b>	<b>Spinosyn</b>	<b>5</b>
Dominion® PT Pre-Construction Termiticide Treatment	Control Solutions, Inc.	Imidacloprid (42.3%)	<b>Neonicotinoid</b>	<b>4A</b>
Exile® DB	Aspen Veterinary	Imidacloprid (42.3%)		
Adonis™ 4F Insecticidal Spray	Starbar	Imidacloprid (42.3%)		
Macho® 600 ST	Albaugh	Imidacloprid (42.3%)		
Midash Forte Insecticide	Sharda USA	Imidacloprid (42.3%)		
Darlex® Insecticide	MGK	Clothianidin (23.0%)		
<b>Rabon® 50 WP Insecticide<sup>1</sup></b>	<b>Elanco</b>	<b>Tetrachlorvinphos (50.0%)</b>	<b>Organophosphate</b>	<b>1B</b>
<b>Beetle Shield® 6<sup>1</sup></b>	<b>Elanco</b>	<b>Tetrachlorvinphos (6.0%)</b>		
<b>Ravap® EC<sup>1,2</sup></b>	<b>Elanco</b>	<b>Tetrachlorvinphos (23.0%) + Dichlorvos (5.3%)</b>		
Pyrofos™ CS Controlled Release Premise Insecticide <sup>2</sup>	Martin's (a Control Solutions Brand)	Chlorpyrifos (20.0%)		
Pyrofos™ 42 CS Controlled Release Premise Insecticide <sup>2</sup>	Martin's (a Control Solutions Brand)	Chlorpyrifos (41.85%)		
Durashield™ CS Controlled Release Premise Insecticide <sup>2</sup>	BASF	Chlorpyrifos (20.0%)		
<b>CyLence Ultra™ Pest Control Concentrate</b>	<b>Elanco</b>	<b>Beta-Cyfluthrin (11.8%)</b>	<b>Pyrethroid</b>	<b>3A</b>
<b>CyLence Ultra™ Premise Spray</b>	<b>Elanco</b>	<b>Cyfluthrin (11.8%)</b>		
Zeta-Gard™ LBT Insecticide	Y-Tex	Zeta-Cypermethrin (0.375%) + Piperonyl Butoxide (0.75%)		
Optashield® CS Controlled Release Premise Insecticide	BASF	Cyfluthrin (6.0%)		
StandGuard® Premise Insecticide	Neogen	Gamma-Cyhalothrin (5.9%)		
Optimate® CS Controlled Release Premise Insecticide	Control Solutions, Inc.	Gamma-Cyhalothrin (5.9%)		
Demand® CS Insecticide	Syngenta	Lambda-Cyhalothrin (9.7%)		
Cyonara™ 9.7 Insecticide	Control Solutions, Inc.	Lambda-Cyhalothrin (9.7%)		
Bifen I/T Insecticide/Termiticide	Control Solutions, Inc.	Bifenthrin (7.9%)		
Talstar® P Professional Insecticide	FMC	Bifenthrin (7.9%)		
ActiShield™ Liquid Insecticide	Alpharma	Bifenthrin (7.9%)		
Permacap CS™ Controlled Release Permethrin	BASF	Permethrin (23.0%)		
Tengard® SFR One-Shot Termiticide/Insecticide	United Phosphorus	Permethrin (36.8%)		
Permethrin E-Pro Termiticide/Insecticide	Envincio	Permethrin (36.8%)		
Onslaught® Microencapsulated Insecticide	MGK	Esfenvalerate (6.4%)		

# DARKLING BEETLE CONTROL FOR POULTRY

## Darkling Beetle Control for Poultry (cont.)

Brand	Manufacturer	Active Ingredient(s)	Chemical Class	IRAC Mode of Action Group <sup>3</sup>
<b>INSECT GROWTH REGULATORS (IGRs)</b>				
Pyri-Shield® EC Emulsifiable Concentrate Premise Insecticide	BASF	Pyriproxyfen (PPF) (1.3%)	Juvenile Hormone (JH) analog	7C
NyGuard® IGR Concentrate	MGK	Pyriproxyfen (PPF) (10.0%)	Juvenile Hormone (JH) analog	7C
Tekko® 10 IGR Concentrate	Control Solutions	Novaluron (9.3%)	Chitin Synthesis Inhibitor (CSI)	15
Tekko® Pro IGR Concentrate	Control Solutions	Pyriproxyfen (1.3%) + Novaluron (1.3%)	JH analog + CSI	7C + 15
<b>OTHER PRODUCTS</b>				
Boric acid	Several	Boric acid	Borate	8D
Diatomaceous earth	Several	Silicon Dioxide	Abrasive material	n/a

<sup>1</sup>Can be applied with birds present.

<sup>2</sup>Restricted-Use Pesticide (RUP).

<sup>3</sup>IRAC (Insecticide Resistance Action Committee) Mode of Action Group: The IRAC Mode of Action classification provides growers, advisors, extension staff, consultants and crop protection professionals with a guide to the selection of acaricides or insecticides for use in an effective and sustainable acaricide or insecticide resistance management (IRM) strategy.



## An Expert Team Dedicated to Your Success

Elanco experts can help you be confident that you're getting the most value out of our industry-leading products. Your Elanco representative can answer questions, provide insights about best practices and share advice regarding application. Contact your representative to help you create an Integrated Pest Management program for your operation.

**The labels contain complete use information, including cautions and warnings. Always read, understand and follow the label and use directions.**

For more information, visit [ElancoPoultry.com](https://www.ElancoPoultry.com)

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