

Technical Bulletin



NyGuard® IGR Concentrate is an insect growth regulator (IGR) that mimics the juvenile hormone, preventing more than 50 immature insects from developing into reproductive adults.

Features and Benefits

- Long-lasting residual activity
- Can be tank mixed with adulticides to control immature and adult insects
- Photostable so it will not rapidly degrade in sunlight
- Binds to organic and inorganic material
- EPA reduced risk status for food handling areas



Product Specifications

Key Target Pest(s)	Cockroaches, darkling beetles, house flies, mosquitoes, fleas and stored product pests
Signal Word	Caution
Form	Concentrate
Active Ingredient(s)	Pyriproxyfen
Class of Chemistry	Juvenile hormone receptor modulator (7C)
Activity	Insect growth regulator, residual
Mode of Action	Disrupt and prevent metamorphosis
Stability	If frozen, thaw and shake before use
Flammability	Not listed as flammable or combustible
Odor	Sweet
PPE Requirements	None listed
Retreat Interval	Reapply when insect populations reach economic threshold levels
Mix or Dilute In	Water; Water or oil (ULV applications)
Shelf Life	3 years or more in ideal storage conditions

Scan the QR code or visit
mgk.com/nyguard
to see resources and
additional information.

Use Sites

Indoor and Outdoor Areas

- Residential homes
- Commercial buildings
- Food and non-food areas
- Landscaping, lawn and turf
- Exterior perimeters

Livestock Areas

- Livestock housing
- Poultry housing

On and Over Poultry

Packaging

- 140ml bottle (10 per case)
- 480ml bottle (6 per case)
- 1 gallon bottle (2 per case)



Application Methods

- Indoor and outdoor broadcast
- Foliar sprays
- Surface sprays
- Space sprays
- Spot, crack/crevice treatments
- Void injection
- Foam
- Band

Recommended Equipment

- Handheld or backpack sprayers
- Backpack mist blowers
- Automatic misting systems
- Mist sprayers
- Power sprayers
- ULV foggers

How NyGuard® IGR Concentrate Breaks the Life Cycle of Your Toughest Insects

Effects of NyGuard exposure on different insect life stages

Insects with complete metamorphosis, such as: Darkling beetles, fleas, flies, mosquitoes, and stored product pests	 Egg Stage	 Larval Stage	 Pupal Stage	 Adult Stage
	Mortality	- Permanent larval stage - Reduced fitness - Increased susceptibility to non-IGR insecticides - Sterility in adult stage if development continues	- Death - Morphological defects - No adult emergence	- Reduced egg production - Decreased viability of eggs
Insects with incomplete metamorphosis, such as: Cockroaches and crickets	 Egg Stage	 Nymphal Stage		 Adult Stage
	Mortality	- Permanent nymphal stage - Reduced fitness - Increased susceptibility to non-IGR insecticides - Morphological defects - Behavioral changes- more active in daylight - Death - Sterility in adult stage if development continues		- Reduced egg production - Decreased viability of eggs

MGK Sustainability in Action

- Container is HDPE and 100% recyclable
- Formulated in a production facility that uses 100% renewable energy
- Shipping cartons and paper labels are sourced from Sustainably Managed Forests

Always read and follow all label instructions. For any medical or safety questions, concerns or incident reports, call 1.888.740.8712.

EPA Registration Number: 1021-1603

Toll Free: 800.645.6466 | Tel: 763.544.0341 | Fax: 763.544.6437

7325 Aspen Ln N, Minneapolis, MN 55428 | MGK.com

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