

Technical Bulletin



DARLEX[®]

Insecticide

Darlex[®] Insecticide is the first darkling beetle product specially formulated for the poultry industry that contains clothianidin, proven to provide lasting control and is an excellent rotational option to pyrethroids.

Features and Benefits

- Kills bed bugs, darkling beetles and nuisance ants
- Controls darkling beetles and their larvae



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

Product Specifications

Key Target Pest(s) Darkling beetles, bed bugs and nuisance ants

Signal Word Caution

Form Concentrate

Active Ingredient(s) Clothianidin

Class of Chemistry Neonicotinoid (4A)

Activity Residual, kills on contact

Mode of Action Nicotinic acetylcholine receptor competitive modulator

Stability If frozen, thaw and shake before use

Flammability Not listed as flammable or combustible

Odor Mild

PPE Requirements Long pants, long sleeves, shoes and socks

Retreat Interval None listed

Mix or Dilute In Water only

Shelf Life 3 years or more in ideal storage conditions

Use Sites

Indoor and Outdoor Areas of Poultry Housing

- Broiler
- Turkey
- Caged egg layer
- Breeder

Animals cannot be present at the time of application

Packaging

- 1 gallon bottle (4 per case)

Application Methods

- Broadcast (interior)
- Spot treatment
- Crack and Crevice
- Whole house
- Banded



Recommended Equipment

- Handheld and backpack sprayers
- Manually pressurized hand wands
- Truck mounted sprayers
- Power sprayers
- Mist blowers

Mixing Instructions

- Fill the sprayer tank with half the total water, add the required amount of Darlex, then add the remaining water while mixing.
- Prepare a fresh mixture before each treatment.
- Maintain sufficient agitation throughout the application to ensure a uniform spray.

APPLICATION METHODS FOR DARKLING BEETLE CONTROL

Banded application	Apply diluted product to a 3-5 ft. wide swath of floor area, making sure to get under all water and/or feed lines. Also apply 3-5 ft. swath along inside perimeter of side and end walls, including surface of footings and 1-3 ft. up walls and support beams.
Whole house application	Apply to entire floor, with special attention to areas beneath feed and water lines as well as lower sections of walls up to 1-3 ft. on wood surfaces above the foundation.

To apply 4 fl. oz. Darlex Insecticide per 1,000 sq. ft.

Sq. Ft. of Area to be Treated	Fluid Ounces of Darlex Insecticide Needed	Total Volume of Water
500	2 fl. oz.	1/4–1 gallon
5,000	20 fl. oz.	2.5–10 gallon
10,000	40 fl. oz.	5–20 gallon
15,000	60 fl. oz.	7.5–30 gallon
20,000	80 fl. oz.	10–40 gallon

Darlex Tips and Tricks From the MGK Technical Department

- Apply after de-caking, clean-out and sanitation procedures are complete, but prior to new flock placement.
- Darkling beetles can develop resistance to insecticides. Use Darlex as part of a rotational program with other classes of insecticides, such as pyrethroids, organophosphates, or spinosyns to combat resistance.
- Consider adding an insect growth regulator like NyGuard® IGR to break the darkling beetle reproduction cycle.

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
- Very low volatile organic compound

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: 1021-2771

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