



Frequently Asked Questions (FAQ)

Quick Specs:

- Product Type: All-natural, 25(b) insecticide
- Target Pests: Flies & Ticks
- Active Ingredients: Cinnamon oil (2%)
Peppermint oil (2%)
Clove oil (2%)
- Use Sites: On animal, dairy cattle, barns, housing areas, milking facilities
- Application Methods: Automated spray systems, pump sprayers, mist blowers, foggers
- Dilution Rate: 6 oz. per gallon of water
- Coverage:
 - Mist blowers: ~2,500 sq. ft. per gallon of solution
 - Pump/backpack sprayers: ~1,000 sq. ft. per gallon of solution
- Reapplication: Every 5–12 days depending on pressure
- Program Fit: IPM rotation plus organic-compatible solution
- Regulatory Status: FIFRA 25(b) exempt, OMRI listed

Kills Flies and Ticks when used according to label instructions on and around cattle.

PRODUCT OVERVIEW

What is HerdArmor™?

HerdArmor™ is an all-natural, plant-based insecticide designed to kill flies and ticks on and around cattle. It is formulated specifically for dairy environments, including automated spray systems, barns, and livestock housing.

What are the active ingredients?

Cinnamon oil (2%), Peppermint oil (2%), Clove oil (2%)

Is HerdArmor™ approved for organic use?

Yes—HerdArmor™ is suitable for use in organic dairy operations (OMRI compliant).

What does OMRI approved mean?

OMRI (Organic Materials Review Institute) approval means the product has been reviewed and is compliant with standards for use in certified organic production systems. OMRI-listed products are widely accepted in organic dairy operations.

Is it EPA registered?

HerdArmor™ qualifies for exemption under FIFRA 25(b) as a minimum-risk pesticide.

What does FIFRA 25(b) mean?

FIFRA 25(b) refers to a category of minimum-risk pesticides that are exempt from EPA registration because their active ingredients are considered low risk to human health and the environment. These products must meet strict criteria around ingredient safety and labeling but do not go through the full EPA registration process required for conventional pesticides.

PERFORMANCE & EFFICACY

Does it kill or repel flies?

HerdArmor™ is designed to kill flies and ticks on contact when applied correctly.

How fast does it work?

Provides visible knockdown following application when proper coverage is achieved.

ARKION LIFE SCIENCES
551 Mews Drive, Suite J
New Castle, Delaware 19720
800-468-6324
www.ArkionLS.com



Contact Tom Boyd
tboyd@arkionls.com



PERFORMANCE & EFFICACY (continued)

What is the mode of action?

Plant-based multi-target MOA: cuticle disruption, respiratory distress, repellency and residual activity

How long does it last?

Reapplication is recommended every 5–12 days depending on pest pressure.

How does it compare to conventional products?

HerdArmor™ is best used as:

- A rotational tool in IPM programs
- An organic-compatible solution
- A support tool during resistance challenges

APPLICATION & SYSTEM COMPATIBILITY

Can it be used in automated spray systems?

Yes—HerdArmor™ is specifically designed for automated dairy spray systems.

What is the dilution rate?

6 fluid ounces per gallon of water

What is the coverage per gallon?

Coverage depends on application method:

- Mist blowers: ~2,500 sq ft per gallon
- Pump/backpack sprayers: ~1,000 sq ft per gallon

How is it applied?

- Automated spray systems
- Pressure sprayers
- Tank dipping
- Foggers, etc. (see above and below)

Ensure thorough coverage without excessive runoff.

Can it be used in facilities?

Yes—approved for use in barns, housing areas, milking facilities, and outdoor livestock spaces.

Can HerdArmor™ be used in a fogger?

Yes—HerdArmor™ can be used in fogging applications without the need for mineral oil. The formulation contains sufficient peppermint oil to support effective fogging.

Does it require agitation or special handling?

Yes—shake or agitate well before use to ensure proper mixing.

PROGRAM FIT (IPM)

Where does it fit in a fly control program?

- Rotation tool to reduce resistance
- Organic-approved option
- Consistent application solution for automated systems

Can it be used with other products?

Yes—compatible with feed-throughs, conventional insecticides, and environmental management practices.

ANIMAL SAFETY & PRACTICAL USE

Is it safe for dairy cattle?

Yes, when used according to label directions.

Can it be used on animals?

Yes, when used according to label directions.

Can it be used around feed and water?

Yes—but do not spray directly on feed, food, or water sources.

Does it affect milk quality?

Appropriate for dairy use, including organic operations, when used as directed.

Does it have an odor?

Yes—a natural scent from plant-based ingredients.

Will cinnamon oil irritate teat skin?

At the labeled dilution rate, the concentration of cinnamon oil is low and buffered by water and soap. Based on formulation and typical use, irritation is not expected. As with any product, proper dilution and application are important. If sensitivity is a concern, spot testing on a small group is recommended.

DIFFERENTIATION

What makes HerdArmor™ different?

- Multi-active plant-based formulation
- Designed for automated dairy systems
- Built for IPM rotation and residual use
- Developed specifically for livestock environments

Why are producers adopting it?

- Organic compatibility
- Resistance management
- System integration
- Flexibility across applications

This product has not been registered by the United States Environmental Protection Agency. Arkion Life Sciences, LLC represents that this product qualifies for exemption from registration under FIFRA Section 25(b).

“Providing Tomorrow’s Innovative Solutions Today®” and “Arkion®” are registered trademarks and “HerdArmor™” is a trademark of Arkion Life Sciences, LLC

**Providing Tomorrow’s
Innovative Solutions Today®**



ARKION LIFE SCIENCES
551 Mews Drive, Suite J
New Castle, Delaware 19720
800-468-6324
www.ArkionLS.com



Contact Tom Boyd
tboyd@arkionls.com