

Technical Bulletin



BP-100 PLUS™ Fogging Concentrate

BP-100 Plus™ Fogging Concentrate is an oil-based formulation that delivers multiple modes of action by combining botanically based pyrethrins, an insect growth regulator (IGR) and piperonyl butoxide (PBO) to control over 70 insects including flies, lice and cockroaches.

Features and Benefits

- No withholding time periods for use before animal processing
- Authorized for use in federally inspected meat and poultry plants
- Contains NyGuard® IGR for dual modes of action to target adult and immature insects
- Formulated with a 1:5 pyrethrins to PBO ratio to combat resistance and increase effectiveness

Product Specifications

Key Target Pest(s)	Cockroaches, flies, lice and stored product pests
Signal Word	Caution
Form	Concentrate
Active Ingredient(s)	Pyrethrins; Pyriproxyfen; Piperonyl butoxide (PBO)
Class of Chemistry	Pyrethrins (3A); ; Juvenile hormone receptor modulator (7C); Synergist
Activity	Kills by contact, insect growth regulator
Mode of Action	Sodium channel modulator; Disrupt and prevent metamorphosis; Interference with P-450 mediated detoxification system
Stability	If frozen, thaw and shake before use
Flammability	Not listed as flammable or combustible
Odor	Solvent
PPE Requirements	Long pants, long sleeves, shoes and socks, respirator (enclosed spaces)
Retreat Interval	1 day
Mix or Dilute In	Oil (optional)
Shelf Life	2 years or more in ideal storage conditions



Scan the QR code or visit
mgk.com/bp-100-plus
to see resources and
additional information.

Use Sites

Indoor and Outdoor Areas

- Residential homes
- Commercial buildings
- Food and non-food areas
- Trees, lawns, landscape, turf

Livestock Areas

- Livestock housing
- Poultry housing

On and Over Poultry and Horses

Automatic Misting Systems

Packaging

- 1 gallon bottle (4 per case)
- 30 gallon drum



Application Methods

- Space spray
- Spot treatment
- Crack and crevice
- Direct spray
- Void injection

Recommended Equipment

- Mechanical aerosol generators
- Ultra-low-volume (ULV) generators
- Backpack mist blower
- Thermal and conventional foggers
- Handheld sprayers

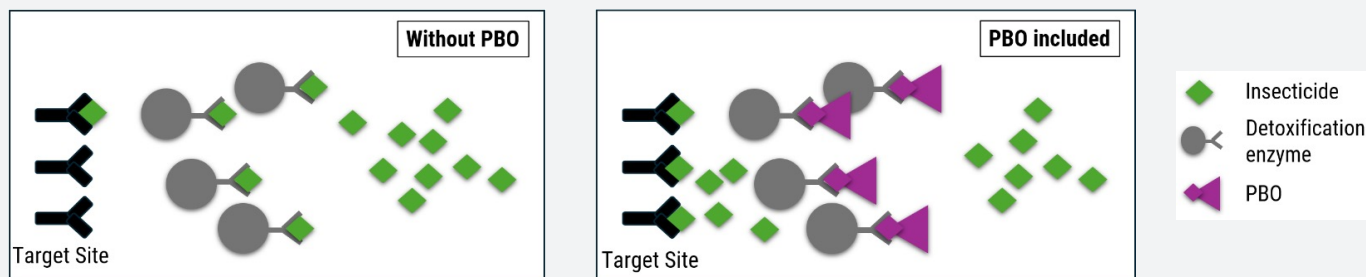
Mix Rates

BP-100 Plus can be applied neat (undiluted) or diluted with an appropriate white mineral or paraffinic oil according to the dilution chart below:

% Pyrethrins Desired	Mixture Rate	Application Rate per 1,000 cu. ft.
1.0	Undiluted	1 fl. oz.
0.5	1 part concentrate to 1 part oil	1-2 fl. oz.

Benefits of Oil-Based Fogging Concentrates From the MGK Technical Department

- Produces a denser fog with longer suspension time than water-based concentrates, improving overall coverage.
- Oil-based formulation promotes better adhesion to animal hides and feathers, as observed in livestock and poultry environments.

Piperonyl Butoxide (PBO) Enhances Insecticide Efficacy

To have a lethal effect, the active ingredient in an insecticide needs to reach its target site within the insect. Resistant insects commonly have a heightened defense mechanism, cytochrome P450 enzymes, that attack insecticides. PBO binds to these detoxification enzymes, allowing the insecticide to reach its target site and work more effectively.

MGK Sustainability in Action

- Container is HDPE and 100% recyclable
- Shipping cartons and paper labels are sourced from Sustainably Managed Forests
- Formulated in a production facility that uses 100% renewable energy
- Responsibly sourced ingredients, like pyrethrum from Tanzania, supports long-term prosperity for smallholder farmers and drives economic growth in their communities

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: 1021-2889

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

7325 Aspen Ln N, Minneapolis, MN 55428 | [MGK.com](https://www.mgk.com)

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