PyGanic® Crop Protection EC 5.0II offers immediate insect control for organic production. PyGanic is an organically compliant, broad spectrum contact insecticide that delivers quick knockdown and kill of crop damaging insects.

**Works FAST**
- Delivers quick knockdown and kill

**Organically Compliant**
- OMRI Listed®
- Meets USDA's NOP requirements for an input
- Approved material under Washington state department of agriculture organic food program

**Flexible**
- No pre-harvest interval
- No restrictions on the number of applications you can make per year

**Broad Spectrum**
- May be used on all growing crops
- Kills a broad spectrum of insects

### Product Specifications

<table>
<thead>
<tr>
<th>Signal Word</th>
<th>Caution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packaging</td>
<td>Quarts (6 per case), Gallons (2 per case)</td>
</tr>
<tr>
<td>EPA Registration Number</td>
<td>1021-1772</td>
</tr>
<tr>
<td>Food Handling</td>
<td>Not for use in food handling areas</td>
</tr>
<tr>
<td>Stability of Undiluted Product</td>
<td>Stable</td>
</tr>
<tr>
<td>Stability of Diluted Product</td>
<td>Agitation recommended; not required. Preferably mix only enough for immediate use.</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear, amber-brown colored liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild sweet odor</td>
</tr>
<tr>
<td>Active Ingredients</td>
<td>Pyrethrins</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not classified as flammable or combustible by OSHA</td>
</tr>
<tr>
<td>Mode of Action</td>
<td>Sodium channel modulator – disrupts insects’ nervous system</td>
</tr>
<tr>
<td>Class of Chemistry</td>
<td>Pyrethrins</td>
</tr>
<tr>
<td>Respirator Required</td>
<td>None</td>
</tr>
<tr>
<td>Mix or Dilute in</td>
<td>Water only</td>
</tr>
<tr>
<td>Activity</td>
<td>Quick knockdown, contact kill and flushes insects from hiding</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>1 year in original commercial packaging stored at room temperature</td>
</tr>
</tbody>
</table>

### Use Areas

**Growing Crops Outdoors and in Greenhouses**
PyGanic Crop Protection 5.0II may be used on most crops because its active ingredients are exempt from tolerances when applied to growing crops.

**Ornamental Plants Grown Indoors or Outdoors**

**As a Livestock and Poultry Spray**

**In and Around Animal Housing**
- Barns
- Milking parlors
- Poultry houses
- Dairies
- Milking rooms

### Method of Application
- Conventional hydraulic sprayers
- Compressed air sprayers
- Irrigation systems (chemigation)
- By air or by ground
**Best Practices when using PyGanic® Crop Protection 5.0**

Buffer the pH of the PyGanic spray solution to 5.5 - 7.0

Application of the spray solution with a pH outside of this range may result in poor performance on target pests.

PyGanic is a contact insecticide – good coverage is key

The amount of water used as a carrier has to be sufficient to achieve good coverage and contact target insects.

PyGanic may be applied in conjunction with a spreader or wetting agent

While PyGanic should be compatible with most products, conducting a small-scale test to ensure the lack of phytotoxicity of the combination is recommended.

Consider application in early morning, late evening or during the night

Reduced UV exposure and lower temperatures will increase performance and reduce impact on pollinators.

For most situations, start at the “mid” application rate for PyGanic

In general, using PyGanic 5.0 at the rate of 9 fluid ounces per acre provides excellent knockdown and kill of insects. Conditions under which increasing the rate used per acre are recommended:

- Extremely high insect populations
- When the insect population is dominated by late-stage immatures or adults

Tank mix PyGanic with other products

PyGanic adds quick knockdown and kill, broad spectrum control and resistance managements benefits to other crop protection products such as Bts, Azadirachtin, Spinosad and Neem Oils.

Carefully monitor insect populations and apply when insects are early in their life stage

Monitor your crops for the first appearance of insects and treat the insects during the early stages of colonization.

Always read and follow label and MSDS directions.

To learn more, visit www.mgk.com, call 1-800-645-6466 or send an e-mail to brands@mgk.com.

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**Apply PyGanic when target insects are active**

Apply when the target insects are active to increase the direct contact during the early stages of colonization.

**Remove beneficial insects or apply when beneficial are not present**

Key Insects Controlled

PyGanic Crop Protection 5.0II is labeled for the control of insects including, but not limited to:

- 12-spotted Cucumber Beetles
- Angoumois Grain Moths
- Ants (excluding fire and Pharaoh ants)
- Aphids
- Apple Maggots
- Armored Scales
- Armyworms
- Artichoke Plume Moths
- Asparagus Beetles
- Bagworms
- Bean Beetles
- Beet Armyworms
- Beetles
- Bermuda Grass Mirids
- Billbugs
- Blister Beetles
- Blow Flies
- Boll Weevils
- Boxelder Bug
- Branch and Twig Borers
- Brown Dog Ticks
- Cabbage Loopers
- Cabbage Maggots
- Cadelles
- Cantharids
- Carrot Weevils
- Caterpillars
- Chalids
- Cheese Skippers
- Cherry Fruit Flies
- Cigarette Beetles
- Clover Mites
- Clover Weevils
- Cockroaches
- Cockle Moths
- Colorado Potato Beetles
- Confused Flour Beetles
- Corn Earworms
- Crane Flies
- Crickets
- Cross-striped Cabbageworms
- Cucumber Beetles
- Dark Mealworms
- Darling Beetles (lesser meal worm)
- Diamondback Larvae and Moths
- Dried Fruit Beetles
- Dragstore Beetles
- Earwigs
- Eastern Tent Caterpillars
- Elm Leaf Beetles
- Eriophyid Mites
- European Pine Tip Moths
- Fireworms
- Flea Beetles
- Fleas
- Forest Tent Caterpillars
- Fruit Flies
- Fruit Tree
- Leaf Rollers
- Fruitworms
- Fungus Gnats
- Garden Symphylan
- Glassy-winged Sharpshooters
- Gnats
- Grain Mites
- Grape Leaf Skeletonizers
- Grape Leafhoppers
- Grape Mealy Bugs
- Grasshoppers
- Green Bugs
- Green Fruitworms
- Green Peach Aphids
- Greenhouse Thrips
- Gypsy Moths (adults and larvae)
- Harlequin Bugs
- Hellithis spp.
- Horn Flies
- Hornworms
- House Flies
- Imported Cabbageworms
- Indian Meal Moths
- Japanese Beetles
- Katydid
- Lace Bugs
- Leaf-footed Plant Bugs
- Leaffoppers
- Leafliners
- Leafrollers
- Leaflets
- Lice
- Loopers
- Lygus
- Maggots
- Mealy Bugs
- Mediterranean Flour Moths
- Mexican Bean Beetles
- Midge
- Millipedes
- Mites
- Mole Crickets
- Moths
- Mushroom Flies
- Navel Orangeworms
- Olive Fruit Flies
- Onion Maggots
- Orange Tortrix
- Pacific Flatheaded Borers
- Pear Psyllids
- Pepper Weevils
- Pink Bollworms
- Potato Leaffoppers
- Potato Tubeworms
- Poultry Lice
- Proba Bugs
- Psyllids
- Red Flour Beetles
- Rice Weevils
- Saltmarsh Caterpillars
- Saw-tooth Grain Beetles
- Scales
- Sharpshooters
- Shepherd “Tick” or Kid
- Shore Flies
- Shot Hole Borers
- Silverfish
- Skippers
- Small Flying Moths
- Soft Scales
- Southern Chinch Bugs
- Sow Bugs
- Spider Beetles
- Spiders (excluding brown recluse spiders)
- Springtails
- Squash Bugs
- Stable Flies
- Stink Bugs
- Tamished Plant Bugs
- Thrips
- Tobacco Moths
- Tomato Budworms
- Tomato Bugs
- Tomato Fruit Worms
- Tomato Hornworms
- Tomato Pinworms
- Tomato Russet Mite
- Tussock Moths
- Vine Mealy Bugs
- Vinegar Flies
- Webworms
- Weevils
- Western Yellow-striped Armyworms
- Whirlies
- Yellow Mealworms

PyGanic Crop Protection EC 5.0II