

# PERMA-GUARD CRAWLING INSECT CONTROL

MECHANICAL INSECTICIDE  
EFFECTIVE AND LONG LASTING WHEN KEPT DRY

Kills the following:

**Beetles:** Spotted Cucumber Beetle (southern corn rootworm), Asparagus Beetle, Bean Beetles, Blister Beetles, Carpet Beetle, Cigarette Beetle, Colorado Potato Beetle, Confused Flour Beetle, Driedfruit Beetle, Drugstore Beetle, Elm Leaf Beetle, Flea Beetles, Hide Beetle, Japanese Beetle, Mexican Bean Beetle, Red Flour Beetle, Sawtoothed Grain Beetle, American Spider Beetle, Yellow Mealworm

**Moths:** Angoumois Grain Moth, Artichoke Plume Moth, Codling Moth, Diamondback Moth (adults & larvae), Ponderosa Pine Tip Moth, Grapeleaf Skeletonizer, Gypsy Moth (adults & larvae), Indian Meal Moth, Mediterranean Flour Moth, Tobacco Moth, Pine Tussock Moth

**Weevils:** Boll Weevil, Carrot Weevil, Sweetclover Weevil, Pepper Weevil, Rice Weevil

**Flies, Gnats, Maggots:** Apple Maggot, Blow Flies, Cabbage Maggots, Cherry Fruit Fly (cherry maggot), Crane Flies, Fruit Flies, Fungus Gnats, Apple Maggot, Mushroom Fly, Olive Fruit Fly, Onion Maggot, Shore fly, Vinegar Fly, Whiteflies

**Worms, Slugs and Caterpillars:** Armyworm, Bagworm, Beet Armyworm, Cross-striped Cabbageworm, Cankerworms, Caterpillars, Corn Earworm (bollworm/tomato fruitworm), Dark Mealworm, Eastern Tent Caterpillar, Fireworms, Forest Tent Caterpillar, Cherry Fruitworm, Tobacco Hornworm, Green Fruitworm, Imported Cabbageworm, Lesser Mealworm, Navel Orangeworm, Pink bollworm, Potato Tuberworm, Saltmarsh caterpillar, Spotted Garden Slug, Tobacco Budworm, Tomato Fruitworm (bollworm/corn earworm), Tomato Hornworm, Tomato pinworm, Beet Webworm, Corn Root Webworm, Western Yellowstriped Armyworm

**Bugs, Scales and Plant Mites:** Armored Scale, Bedbugs, Billbugs, Boxelder Bug, Clover Mite, Eriophyid Mite, Grain Mite, Grape Mealybug, Greenbug, Harlequin Bug, Lacebugs, Leafhopper, Proba bug, Tarnished Plant Bug, Tomato bug, Tomato Russet Mite, Soft Scale, Squash bug, Stink Bugs, Southern chinch bug, Sowbugs, Grape mealybug

**Aphids, Borers, Leafhoppers, Leaf miners, loopers and other insects as listed:** Ants (excluding Fire, Harvester, Carpenter and Pharaoh ants), Aphids, Bermudagrass Mirids, Twig Borers, Cabbage Looper, Cadelle, Chalcids, Cheese Skipper, Crickets, Mole Crickets, Earwigs, European Corn Borer, Fruittree Leafroller, Garden Symphylan, Glassy-winged Sharpshooter, Grape Leafhoppers, Grasshoppers, Green Peach Aphid, Greenhouse Thrip, Katydid, Leafhoppers, Leafminers, Leafrollers, Leaf-tiers, Loopers, Millipedes, Orange Tortrix, Pacific Flatheaded Borer, Pear Psylla, Potato Leafhopper, Psyllids, Shothole borer, Silverfish, Skippers, Springtails, Thrips.

<b>ACTIVE INGREDIENT:</b>	
Diatomaceous Earth, chemical composition consisting of:	
Silicon Dioxide	85.0%
<b>OTHER INGREDIENTS</b>	
	15.0%
<b>Total</b>	<b>100.0%</b>

## KEEP OUT OF REACH OF CHILDREN CAUTION

### FIRST AID

**If In Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies, call the poison control center at 1-800-222-1222. For general information on this product, contact the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8 AM to 12 PM PST, or at <http://npic.orst.edu>.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Use adequate ventilation and avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. When using this product during prolonged exposure, wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter; or a NIOSH-approved elastomeric particulate respirator with any N, R or P filter; or a NIOSH-approved powered air-purifying respirator with an HE filter.

**Mixers, loaders, applicators and other handlers must wear the following:**

- a long sleeved shirt and long pants
- socks and shoes
- during prolonged exposure, a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter; or a NIOSH-approved elastomeric particulate respirator with any N, R or P filter; or a NIOSH-approved powered air-purifying respirator with an HE filter

### ENVIRONMENTAL HAZARDS STATEMENT

For terrestrial uses: Do not apply to water, or to areas where surface water is present or to intertidal areas below the mean water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

#### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

For early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, wear:

- Coveralls,
- Chemical-resistant gloves made of any waterproof material, and
- Shoes plus socks

#### Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep children and pets out of the treated area until sprays have dried

### PRODUCT INFORMATION

This product is a ready-to-use insecticide which provides effective control against crawling and flying insect pests and plant parasitic mites. Surfaces treated with PERMA-GUARD CRAWLING INSECT CONTROL will control flying insect pests if they land on the treated surface. PERMA-GUARD CRAWLING INSECT CONTROL is a mechanical insect killer. When applied as a wettable powder using standard application equipment, it adheres to the outer surface of the target substrate, contact with an insect pest or mite results in the static transfer of a few particles of PERMA-GUARD CRAWLING INSECT CONTROL which absorb the protective lipid layer necessary for their survival. As a result, the insect will desiccate. Insect pests and mites will not become immune to PERMA-GUARD CRAWLING INSECT CONTROL's mode of action. Insect pests that come in contact or ingest this powder will die within 48 hours.

### APPLICATION

This product is for use on crops and stored grain, in and around residential, commercial and agricultural buildings, structures and their immediate surroundings, in and around food/feed handling establishments, in and around livestock and poultry houses and may be applied over the top while animals are present.

PERMA-GUARD CRAWLING INSECT CONTROL is intended for application using commercially available hand dusters, power dusters or other suitable means for application to areas where insect pests are found. PERMA-GUARD CRAWLING INSECT CONTROL can be applied as a wettable powder (WP). WP treatments are intended both for indoor and outdoor applications and can be applied in a targeted manner.

#### Wettable Powder Mixing Instructions:

- Fill spray tank with water and add recommended rate of PERMA-GUARD CRAWLING INSECT CONTROL to match spray tank application acreage and mix to ensure dispersion.
- Add optional non-ionic surfactant according to label rate.

#### Notes:

- The recommended maximum addition rate of PERMA-GUARD CRAWLING INSECT CONTROL to water is 1.65 lbs per gallon.
- Non-ionic surfactants are used to improve spreading on hydrophobic surfaces.
- It is advised to mix this solution directly prior to spraying and apply the entire batch within 8 hours.
- When in suspension, PERMA-GUARD CRAWLING INSECT CONTROL will settle if left undisturbed for more than 1 hour, therefore, mix prior to restarting the application.
- When proper coverage is obtained, a visible white residue will be apparent on the treated surface.

### CROP APPLICATIONS

Apply PERMA-GUARD CRAWLING INSECT CONTROL as a wettable powder to all listed growing crops to control insect pests and mites. Repeat treatments, up to the maximum application rate, to maintain adequate control in the event of rain and if white residue is not visible. It is advisable to add non-ionic surfactants to improve the spreading on foliage.

#### Root and Tuber Vegetables (Group 1): Artichoke, Beet, Carrot, Ginger, Horseradish, Potato, Radish, Sweet Potato, Turnip

Pests	Application Instructions:
Aphids Artichoke Plume Moth Beet Armyworm Blister Beetles Carrot Weevil Colorado Potato Beetle Cucumber Beetle	Japanese Beetle Potato Leafhopper Potato Tuberworm Psyllids Stink Bugs Thrips Whiteflies
<b>Restrictions:</b> Minimum Application Rate: 6 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre Maximum Application Rate (per application): 70 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre	

#### Bulb Vegetable (Group 3): Chive, Garlic, Leek, Onion, Shallot

Pests	Application Instructions:
Aphids Onion Maggot Stink Bugs Thrips	Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded.
<b>Restrictions:</b> Minimum Application Rate: 6 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre Maximum Application Rate (per application): 70 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre	

#### Leafy Vegetables (Group 4): Celery, Cress, Fennel, Lettuce, Parsley, Spinach, Swiss chard

Pests	Application Instructions:
Aphids Armyworms Cabbage Looper Corn Earworm Cucumber Beetles	Diamondback Moth (Adults & Larvae) Loops Saltmarsh Caterpillar Stink Bugs Thrips Whiteflies
<b>Restrictions:</b> Minimum Application Rate: 6 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre Maximum Application Rate (per application): 70 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre	

#### Brassica Leafy Vegetables (Group 5): Broccoli, Brussel Sprouts, Cabbage, Cauliflower, Collards, Kale, Mustard Greens

Pests	Application Instructions:
Aphids Armyworms Cabbage Loopers Cabbage Maggot Corn Earworm Crickets Cross-striped Cabbageworm Cucumber Beetles	Diamondback Moth (Adults & Larvae) Flea Beetles Imported Cabbageworm Leafhoppers Saltmarsh Caterpillar Stink Bugs Thrips Whiteflies
<b>Restrictions:</b> Minimum Application Rate: 6 lbs DIAFIL ® 610 per acre Maximum Application Rate (per application): 70 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre	

#### Legume Vegetables (Group 6): Beans (field, kidney, lima, navy, pinto, snap, blackeye pea, cowpea, crowder pea), Chickpea, Lentil, Peas (English, field, garden, green, snow, sugar snap), Soybeans

Pests	Application Instructions:
Aphids Bean Beetles Beet Armyworm Caterpillars Corn Earworm Cucumber Beetles European Corn Borer Grasshoppers Japanese Beetles	Plant Bugs Plant Parasitic Mites Leafminers Loopers Mexican Bean Beetle Stink Bugs Thrips Webworms Whiteflies
<b>Restrictions:</b> Minimum Application Rate: 6 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre Maximum Application Rate (per application): 70 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre	

#### Fruiting Vegetables (Group 8): Eggplant, Okra, Peppers (bell, nonbell), Tomatoes (bush, tree)

Pests	Application Instructions:
Aphids Armyworms Corn Earworm European Corn Borer Flea Beetles Plant Bugs Plant Parasitic Mites	Japanese Beetles Leafminers Loopers Pepper Weevil Psyllids Stink Bugs Thrips
<b>Restrictions:</b> Minimum Application Rate: 6 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre Maximum Application Rate (per application): 70 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre	

#### Cucurbit Vegetables (Group 9): Cucumber, Melons (cantaloupe, honeydew, watermelon) Pumpkin, Squash (summer, winter)

Pests	Application Instructions:
Spotted Cucumber Beetle Aphids Armyworms Cabbage Looper Corn Earworm Cucumber Beetles Fruit worms	Mites Grasshopper Leafhoppers Squash Bug Stink Bugs Whiteflies
<b>Restrictions:</b> Minimum Application Rate: 6 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre Maximum Application Rate (per application): 70 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre	

#### Citrus Fruits (Group 10): Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (sweet, sour), Satsuma, Tangerine

Pests	Application Instructions:
Aphids Earwigs Plant Mite Fruit Flies Fruittree Leafroller Fruitworms Fuller Rose Beetle Katydid	Leafhopper Mealybugs Navel Orangeworm Psyllids Scales Stink Bugs Thrips Whiteflies
<b>Restrictions:</b> Minimum Application Rate: 6 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre Maximum Application Rate (per application): 70 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre	

#### Pome, Stone & Berry Fruits (Group 11, 12, 13): Apple, Apricot, Blackberry, Blueberry, Cherry, Crabapple, Cranberry, Grape, Loquat, Mayhaw, Nectarine, Olives, Peach, Pear, Plum, Raspberry, Strawberry

Pests	Application Instructions:
Aphids Apple Maggot Cherry Fruit Fly Codling Moth Crickets Mealybugs Plant Bugs Plant Parasitic Mites Fruitworms	Grapeleaf Skeletonizer Green Peach Aphid Gypsy Moth (adults & larvae) Katydid Leafhoppers Leafminers Leafrollers Mealybugs Olive fruit fly
<b>Restrictions:</b> Minimum Application Rate: 6 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre Maximum Application Rate (per application): 70 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre	

#### Tree Nuts (Group 14): Almond, Beechnut, Brazil nut Cashew, Chestnut, Macadamia, Pecan, Walnut

Pests	Application Instructions:
Ants (excluding Fire, Harvester, Carpenter and Pharaoh ants) Codling Moth Aphids Indian Meal Moth Leafhopper Mealybugs	Navel Orangeworm Oriental Fruit Moth Peach Twig Borer Plant Bugs Plant Parasitic Mites Scales Stink Bugs Thrips Walnut Husk Fly
<b>Restrictions:</b> Minimum Application Rate: 6 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre Maximum Application Rate (per application): 70 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre	

#### Cereal Grains (Group 15): Barley, Corn (fresh sweet and dried field), Millet, Oats, Rice, Sorghum, Wheat, Wild rice

Pests	Application Instructions:
Aphids Armyworms Corn Earworm Cucumber Beetle European Corn Borer Flea Beetles Grasshopper	Greenbugs Indian Meal Moth Japanese Beetle Rice Weevil Rice Water Weevil Southern Chinch Bug Stink Bugs
<b>Restrictions:</b> Minimum Application Rate: 6 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre Maximum Application Rate (per application): 70 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre	

#### Oilseed field crops (Group 20): Cottonseed, Flax seed, Mustard seed, Rapeseed, Sesame, Sunflower

Pests	Application Instructions:
Aphids Armyworms Bean Beetles Blister Beetles Boll Weevil Cabbage Looper Caterpillars	Cigarette Beetle Corn Earworm Cucumber Beetle European Corn Borer Grasshopper Japanese Beetle Leafhoppers
<b>Restrictions:</b> Minimum Application Rate: 6 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre Maximum Application Rate (per application): 70 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre	

#### Stalk, Stem and Leaf Petiole Vegetable (Group 22): Agave, Asparagus, Bamboo shoots, Celery, Fennel, Kale, Prickly pear

Pests	Application Instructions:
Aphids Asparagus Beetle Armyworms Corn Earworm Crickets	Cross-striped Cabbageworm Cucumber Beetle Leafhoppers Diamondback Moth Plant Parasitic Mites
<b>Restrictions:</b> Minimum Application Rate: 6 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre Maximum Application Rate (per application): 70 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre	

#### Non-grouped Crops: Cotton, Hops, Hemp, Peanut, Tobacco

Pests	Application Instructions:
Aphids Armyworms Bean Beetle Blister Beetles Boll Weevil Cabbage Looper Caterpillar Cigarette Beetle	Corn Earworm Cucumber Beetle European Corn Borer Grasshopper Japanese Beetle Leafhoppers Leafminers Loopers
<b>Restrictions:</b> Minimum Application Rate: 6 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre Maximum Application Rate (per application): 70 lbs PERMA-GUARD CRAWLING INSECT CONTROL per acre	

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store in a cool, dry area.  
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.  
**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. **If empty:** Offer for recycling if available or discard in a sanitary landfill. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

To the extent consistent with applicable law, Manufacturer makes no warranty, expressed or implied, regarding the performance of this product that extend beyond the statements made on this label.

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