

1021-1772

6/26/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON D C 20460 0001

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

June 26 2012

Mr Thomas A Lennan  
Regulatory Affairs Specialist  
McLaughlin Gormley King Company  
8810 Tenth Avenue North  
Minneapolis MN 55427 4319

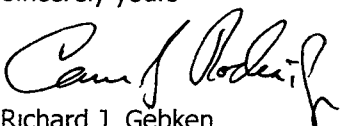
**Subject** Amended Labeling Various Textual Changes  
MGK® PyGanic® Crop Protection EC 5 0<sub>II</sub>, EPA Reg No 1021 1772  
Your Submission Dated May 21 2012

Dear Mr Lennan

The labeling referred to above submitted in connection with registration under the Federal Insecticide Fungicide and Rodenticide Act as amended is acceptable

A copy of your label for this product stamped Accepted is enclosed for your records If you have any questions please contact Mr Carmen Rodia at (703) 306 0327 or via e mail at [Rodia.Carmen@epa.gov](mailto:Rodia.Carmen@epa.gov)

Sincerely yours

*FOR*  
  
Richard J Gebken  
Product Manager (10)  
Insecticide Branch  
Registration Division (7504P)

Enclosure Copy of label stamped Accepted  
001021 01772 D465557 & D465558



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PyGanic® Crop Protection EC 5 0<sub>II</sub> Master Label

Sub-Label A For Agricultural /Livestock/ Commercial Use Only  
Not For Residential Use

ACCEPTED

*June 26, 2012*  
Under the Federal Insecticide, Fungicide,  
and Rodenticide Act as amended, for the  
pesticide registered under

EPA Reg No 1021-1772

EPA REG No 1021 1772  
EPA EST No 1021 MN 2

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# PyGanic® Crop Protection EC 5.0 II

For Organic Production



GROUP	3A	INSECTICIDE
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[For use on growing crops]  
 [For use in Organic Production]  
 [Flushing Action] [Quick Knockdown]  
 [Effective] [Fast Acting]  
 [Can be used on Day of Harvest]  
 [One Gallon Treats up to 28 acres]  
 [Provides rapid knockdown & kill of listed plant pests]  
 [For Use on over 200 fruits and vegetables]  
 [Kills more than 100 insects]  
 [Flushes insects from hiding]

[Non persistent in the environment]  
 [Low Odor] [Non corrosive to spray equipment]  
 [Flushes insects and mites from hiding]  
 [Quick Knockdown]  
 [Effective] [Fast Acting]  
 [Flushes insects and mites from hiding]  
 [Non persistent in the environment]  
 [Kills Key Livestock pests]  
 [Low Odor]  
 [Non corrosive to spray equipment]

**ACTIVE INGREDIENT**

Pyrethrins

5.00%

**OTHER INGREDIENTS**

95.00%

100.00%

MGK and PYGANIC® are registered trademarks of McLaughlin Gormley King Company All other marks are property of their respective holders

## KEEP OUT OF REACH OF CHILDREN CAUTION PRECAUCIÓN

Si usted no entiende la etiqueta busque a alguien para que se la explique a usted en detalle  
(If you do not understand the label find someone to explain it to you in detail)

### FIRST AID

IF SWALLOWED	Call a poison control center or doctor immediately for treatment advice Have person sip a glass of water if able to swallow Do not induce vomiting unless told to do so by the poison control center or doctor Do not give anything by mouth to an unconscious person
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
IF ON SKIN OR CLOTHING	Take off contaminated clothing Rinse skin immediately with plenty of water for 15-20 minutes 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 You may also contact 1 888 740 8712 for emergency medical treatment information	

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

Harmful if absorbed through skin Harmful if swallowed Causes moderate eye irritation Wash hands thoroughly with soap and water after handling and before eating drinking chewing gum using tobacco or using the toilet Avoid contact with skin eyes or clothing Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals Wear long sleeved shirt and long pants socks shoes and chemical resistant gloves

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PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Mixers, loaders, applicators, and other handlers must wear the following:  
long sleeve shirt  
long pants  
shoes and socks, and  
chemical resistant gloves

In addition to the above PPE, applicators using hand-held foggers in an enclosed area must wear a half-face, full-face, or hood-style NIOSH-approved respirator with:  
a dust/mist filtering cartridge (MSHA/NIOSH approval number prefix TC 21C) or  
a canister approved for pesticides ((MSHA/NIOSH approval number prefix TC 14G) or  
a cartridge or canister with any R, P, or HE filter.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep PPE and wash PPE separately from other laundry.

Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

When handlers use aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides 40 CFR 170.240 (d) (4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.  
User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.  
Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters or rinsate.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency for pesticide regulation.

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours

PPE required for early entry to treated areas (that is permitted under Worker Protection Standard and that involves contact with anything that has been treated such as plants soil or water) is

- Long sleeved shirt and long pants
- Chemical resistant gloves such as Barrier Laminate Nitrile Rubber Neoprene Rubber or Viton
- 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

Do not enter or allow others to enter until vapors mists and aerosols have dispersed and the treated area has been thoroughly ventilated

Do not enter or allow others to enter until sprays have dried

INDOOR AREAS FOR USE IN AND AROUND

Greenhouses

OUTDOOR AREAS for use in and around

- Nurseries
- Outdoor Growing Crops

TO KILL THE FOLLOWING INSECTS

- |  |                            |                                     |                               |
|--|----------------------------|-------------------------------------|-------------------------------|
| 12 spotted Cucumber Beetles            | Cabbage Loopers            | Dark Mealworms                      | Garden Symphylan              |
| Angoumois Grain Moths                  | Cabbage Maggots            | Darkling Beetles (lesser meal worm) | Glassy Winged Sharpshooters   |
| Ants (excluding fire and Pharaoh ants) | Caddisflies                | Diamondback Larvae and Moths        | Gnat                          |
| Aphids                                 | Cankerworms                | Dried Fruit Beetles                 | Grain Mites                   |
| Apple Maggots                          | Carrot Weevils             | Drugstore Beetles                   | Grape Leaf Skeletonizers      |
| Armored Scales                         | Caterpillars               | Earwigs                             | Grape Leafhoppers             |
| Armyworms                              | Chalcids                   | Eastern Tent Caterpillars           | Grape Mealy bugs              |
| Artichoke Plume Moths                  | Cheese Skippers            | Elm Leaf Beetles                    | Grasshoppers                  |
| Asparagus Beetles                      | Cherry Fruit Flies         | Eriophyd Mites                      | Green bugs                    |
| Bagworms                               | Cigarette Beetles          | European Pine Tip Moths             | Green Fruit Worms             |
| Bean Beetles                           | Clover Mites               | Fire worms                          | Green Pear Aphids             |
| Beet Armyworms                         | Clover Weevils             | Flea Beetles                        | Greenhouse Thrips             |
| Beetles                                | Cockroaches                | Fleas                               | Gypsy Moths (adults & larvae) |
| Bermudagrass Mirids                    | Codling Moths              | Forest Tent Caterpillars            | Harlequin Bugs                |
| Billbugs                               | Colorado Potato Beetles    | Fruit Flies                         | Heliothis spp                 |
| Blister Beetles                        | Confused Flour Beetles     | Fruit tree Leaf rollers             | Hornworms                     |
| Blow Flies                             | Corn Earworms              | Fruitworms                          | House Flies                   |
| Boll Weevils                           | Crane Flies                | Fungus Gnats                        | Imported Cabbageworms         |
| Boxelder Bugs                          | Crickets                   |                                     |                               |
| Branch and Twig Borers                 | Cross striped Cabbageworms |                                     |                               |
|  | Cucumber Beetles           |                                     |                               |

Indian Meal Moths	More crickets	Saltmarsh caterpillars	Thrips
Japanese Beetles	Moths	Saw Toothed Grain	Ticks
Katydid	Mushroom Flies	Beetles	Tobacco Moths
Lace Bugs	Navel Orangeworms	Scales	Tomato budworms
Leaf footed plant bugs	Olive Fruit Flies	Sharpshooters	Tomato bugs
Leafhoppers	Onion Maggots	Shore flies	Tomato Fruit worms
Leafminers	Orange Tortrix	Shot hole borers	Tomato Hornworms
Leafrollers	Pacific flatheaded	Silverfish	Tomato pinworms
Leaf tiers	borers	Skippers	Tomato Russet Mite
Loopers	Pear Psyllids	Small Flying Moths	Tussock moths
Lygus	Pepper Weevils	Soft Scales	Vine mealy bugs
Maggots	Pink bollworms	Southern chinch bugs	Vinegar Flies
Mealy Bugs	Potato Leafhoppers	Sow bugs	Webworms
Mediterranean Flour	Potato Tuberworms	Spider Beetles	Weevils
Moths	Proba bugs	Springtails	Western Yellow striped
Mexican Bean Beetles	Psyllids	Squash bugs	armyworms
Midges	Poultry Lice	Stable Flies	Whiteflies
Millipedes	Red Flour Beetles	Stink Bugs	Yellow Mealworms
Mites	Rice Weevils	Tarnished Plant Bugs	

**GENERAL PRECAUTIONS AND RESTRICTIONS**

- Do not apply this product in a way that will contact workers or other persons either directly or through drift
- Only protected handlers may be in the area during application
- Not for use in outdoor metered release devices
- Keep unprotected persons out of treated areas until sprays have dried
- Allow spray to dry before allowing adults children or pets on treated areas
- Do not wet plants to the point of runoff or drip
- Do not apply more than 10 times per season
- Do not reapply within 3 days except under extreme pest pressure
- In case of extreme pest pressure do not reapply within 24 hours
- For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation
- Not for use in outdoor residential misting systems
- Do not apply when food feed and or/water is present
- Not for indoor use except in greenhouses

**Spray Drift Management for Agricultural Crops**

- Avoiding spray drift at the application site is the responsibility of the applicator and the grower The interactions of many equipment and weather related factors determine the potential for spray drift The applicator and the grower are responsible for considering all these factors when making decisions
- Do not apply at wind speeds greater than 10 mph at the application site
- Do not make any type of application into temperature inversions
- Apply as a medium or coarser spray (ASABE standard 572)

**Additional Requirements for Aerial Applications**

- Do not release spray at a height greater than 10 feet above the ground or crop canopy
- The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter
- Aerial applicators must consider flight speed and nozzle orientation in determining droplet size
- When applications are made with a cross wind the swath will be displaced downwind The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind

**Additional requirements for ground applications**

- Do not release spray at a height greater than 4 feet above the ground or crop canopy

**Additional requirements for airblast applications**

- Direct sprays into the canopy
- Turn off outward pointing nozzles at row ends and when spraying outer rows

**PESTICIDE RESISTANCE MANAGEMENT**

PyGanic® Crop Protection EC 5 0<sub>II</sub> contains a Group 3A insecticide. Insect biotypes with acquired resistance to Group 3A may eventually dominate the insect population if Group 3A insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by PyGanic® Crop Protection EC 5 0<sub>II</sub> or other Group 3A insecticides.

To delay insecticide resistance consider

- Avoiding the consecutive use of PyGanic® Crop Protection EC 5 0<sub>II</sub> or other group 3A insecticides that have a similar target site of action on the same insect species
- Using tank mixtures or premixes with insecticides from a different target site of action Group as long as the involved products are all registered for the same use and have different sites of action
- Basing insecticide use on a comprehensive IPM program
- Monitoring treated insect population for loss of field efficacy
- Contacting your local extension specialist, certified crop advisors, and/or manufacturer for insecticide resistance management and or IPM recommendations for the specific site and resistance pest problems

**GENERAL USE DIRECTIONS**

**IMPORTANT** It is recommended that the final spray mix be buffered to a pH of 5.5-7.0. Outside of this range pyrethrins can degrade and the product will lose effectiveness.

To avoid possible harm to honey bees and other beneficial insects, it is advisable to apply when the non-target insects are least active.

Pyrethrins degrade rapidly in sunlight. To ensure the best performance, coverage is key. Use spray equipment that will provide the best coverage and direct contact with as many insects as possible.

Kills only at time of application. Listed insect pests must be directly contacted to be effective.

**TANK MIX** This product may be tank mixed with other insecticides, acaricides, fungicides, adjuvants, and wetting agents. This application should conform to accepted use precautions and directions for both products. Tank mix applications must be made in accordance with the more restrictive of label limitations and precautions. No label application rates may be exceeded. This product cannot be mixed with any product with label prohibitions against such mixing.

Prior to tank mixing, a compatibility test should be conducted using the proper proportions of products and water to ensure the physical compatibility of the mixture.

**IMPORTANT NOTE** Plant safety is an important consideration when using insecticides in a greenhouse. However, it is not possible to evaluate the phytotoxicity of PyGanic® Crop Protection EC 5 0<sub>II</sub> on numerous plant varieties that may react differently to insecticides in different growth stages or under varying environmental conditions. Before making widespread applications of PyGanic® Crop Protection EC 5 0<sub>II</sub> or tank mix combinations, treat a limited number of plants and observe for phytotoxicity over a 10 day period.

**DIRECTIONS FOR APPLICATION THROUGH IRRIGATION SYSTEMS (CHEMIGATION)**

Apply this product only through sprinkler (including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for the operation or under the supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise.

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The system must contain a functional check valve vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump The pesticide injection pipeline must also contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the pump motor stops The irrigation line or water pump must include a functional pressure valve which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected

Systems must be a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

Do not apply when wind speed favors drift beyond the area intended for treatment

Constant agitation must be maintained in the chemical supply tank during the entire period of insecticide application Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of more dilute suspension per unit of time

**GROWING CROPS (OUTDOORS AND IN GREENHOUSES AND NURSERIES)**

Apply 4.5 to 17 fluid ounces per acre (333 ml to 1,242 ml/Ha) by ground equipment in sufficient water for thorough coverage This product may be applied by air at the rate of 4.5 to 17 fluid ounces per acre (333 ml to 1,242 ml/Ha) in a minimum of 20 gallons (75.6L) of water Mix only enough for immediate use Spraying should begin when insects first appear Do not wait until plants are heavily infested Repeat as needed but not more than once daily

PyGanic® Crop Protection EC 5.0<sub>II</sub> may be used on most crops because its active ingredient is exempt from tolerances when applied to growing crops The crop grouping scheme used on this label was devised by the Environmental Protection Agency to expedite minor use pesticide registration Each crop grouping on this label contains the phrase including but not limited to and then lists a number of crops in each group This wording allows the use of PyGanic® Crop Protection EC 5.0<sub>II</sub> on crops that may not be specifically listed on this label (providing that the group to which the crop belongs is listed)

**Maximum application rates**

Field and Orchard—0.05 lbs ai/ acre or 17 fl oz of PyGanic® Crop Protection EC 5.0<sub>II</sub> per acre 0.0012 lb ai / 1,000 sq ft

Greenhouse space sprays 0.0014 lbs ai/acre

**ROOT AND TUBER VEGETABLES** Including Arracacha Arrowroot Purple Arrowroot Japanese Artichoke Jerusalem Artichoke Garden Beets Sugar Beets Edible Burdock Edible Canna Carrots Cassava (bitter or sweet) Celeriac (celery root) Chayote (root) Chervil (turnip rooted) Chicory Chufa Dasheen Ginger Ginseng Horseradish Le on Parsley (turnip rooted) Parsnip Potato Radish Japanese Radish (Daikon) Rutabaga Salsify Black Salsify Spanish Salsify Sweet Potato Tanier Turmeric Turnip Yam (true) Yam Bean

**LEAVES OF ROOT AND TUBER VEGETABLES** Including Garden Beet Sugar Beet Edible Burdock Carrot Cassava (bitter or sweet) Celeriac (celery root) Chervil (Turnip Rooted) Chicory Dasheen (Taro) Parsnip Radish Japanese Radish (Daikon) Rutabaga Black Salsify Sweet Potato Tanier Turnip Yam (true)

**BULB VEGETABLES** Including Garlic Great headed Garlic Leek Onion (bulb and green) Welch Shallot

**LEAFY VEGETABLES** Including Amaranth (Leafy Amaranth Chinese Spinach Tampala) Arugula Cardoon Celery Chinese Celery Celtuce Chervil Corn Salad Chrysanthemum (edible leaved) Chrysanthemum (garland) Cress (garden water) Upland Cress (yellow rocket winter cress) Dandelion Dock (sorrel) Endive (escarole) Fennel (Florence) Lettuce (head and leafy) Orach Parsley Purslane (garden & winter) Radicchio Rhubarb Spinach Fine Spinach (Melabar Ceylon) Spinach (New Zealand) Swiss Chard

**BRASSICA (COLE) LEAFY VEGETABLES** Including Broccoli Chinese Broccoli (Gai Lan) Broccoli raab (Rapini) Brussel Sprouts Cabbage Chinese Cabbage (Bok Choy) Chinese Cabbage (Napa) Chinese Mustard Cabbage (Gai Choy) Cauliflower Cavallo broccoli Collards Kale Kohlrabi Mizuna Mustard Greens Mustard Spinach Rape Greens



LEGUME VEGETABLES (SUCCULENT OR DRIED) Including Adzuki Beans Field Beans Kidney Beans Lima Beans Moth Beans Mung Beans Navy Beans Pinto Beans Rice Beans Runner Beans Snap Beans Tepary Beans Urd Beans Wax Beans Asparagus Beans Black eyed Peas Catjang Chinese Longbeans Cowpeas Crowder Peas Southern Peas Yard longbeans Broad Beans (Fava Beans) Chick Peas (Garbanzo Beans) Guar Jackbean (Sword Bean) Lablab Bean (Hyacinth Bean) Lentils Peas (Garden Peas Field Peas Sugar Snap Peas English Pea Snow Pea) Pigeon Peas Soybeans Sweet Lupin Beans White Lupin Beans White Sweet Lupin Sword Bean

FOLIAGE OF LEGUME VEGETABLES Including Plant part of any legume vegetable included in the legume vegetable group that will be used as animal feed including any variety of Beans Field Peas Soybeans

FRUITING VEGETABLES Including Eggplant Ground Cherry Okra Pepinos Pepper (Bell Pepper Chili Peppers Cooking Peppers Pimentos Sweet Peppers) Tomatillo Tomatoes

CUCURBIT VEGETABLES Including Balsam Apple Balsam Pear (Bitter Melon) Chayote (fruit) Chinese Waxgourd (Chinese preserving melon) Chinese Cucumber Citron Melon Cucumber Gherkin Edible Gourds Melons (including hybrids Cantaloupe Casaba Golden Perhsaw Melon Crenshaw Honeydew Melons Honey Balls Mango Melon Muskmelon Persian Melon Pineapple Melon Santa Claus Melon Snake Melon) Pumpkin Squash (summer & winter) Watermelon (including hybrids)

CITRUS FRUITS Including Calamondin Citrus Citron Citrus Hybrids Grapefruit Kumquats Lemons Limes Mandarin (Tangerine) Orange (sweet & sour) Pummelo Satsuma Mandarin (Citrus spp Includes Chironja Tangelos Tangors)

POME FRUITS Including Apple Crabapple Loquat Mayhaw Pear Oriental Pear Quince

STONE FRUITS Including Apricot Cherry (sweet & sour) Nectarine Peach Plum Prune Chickasaw Plum Damson Plum Japanese Plum Plumcot

SMALL FRUITS AND BERRIES Including Blackberry Blueberry Cranberry Currant Dewberry Elderberry Gooseberry Grape Huckleberry Loganberry Olallie Berry Raspberry (black & red) Strawberry Youngberry

TREE NUTS Including Almond Beech Nut Brazil Nut Butternut Cashew Chestnut Chinquapin Filbert (hazel nut) Hickory nut Macadamia Nut (Bush Nut) Pecan Pistachio Walnut Black and English (Persian)

ORIENTAL VEGETABLES Including Acerola Ateemoya Balsam pear (bitter melon) Carambola Japanese Artichoke Chinese Broccoli (Gai Lan) Chinese Cabbage (Bok Choy Napa) Chinese Mustard Cabbage (Gai Choy) Dasheen Ginger Ginseng Chinese Longbeans Mung Beans Citron Melon Japanese Radish (Daikon) Chinese Spinach Chinese Waxgourd Cilantro Citron Melon Rambutan Water Chestnut

SUBTROPICAL FRUITS Including Avocado Banana Carob Barbados Cherry Cherimoya Dates Durian (Jackfruit) Feijoa Figs Guava Kiwifruit Lychee Mango Papaya Passion Fruit Persimmon Pineapple Pomegranate

CEREAL GRAINS Including Barley Buckwheat Corn (sweet and field) Millet Proso Oats Pearl Millet Popcorn Rice Rye Sorghum (Milo) Teosine Triticale Wheat Wild Rice

FORAGE, FODDER AND STRAW OF CEREAL GRAINS Including Barley Buckwheat Corn (sweet and field) Millet Proso Oats Pearl Popcorn Rice Rye Sorghum (milo) Teosine Triticale Wheat Wild rice

GRASSES FOR SEED, FORAGE, FODDER AND HAY Including any grass (Gramineal family green or cured except sugarcane and those listed in the cereal grains group) Pasture and Range Grasses Grasses grown for hay and silage Bermuda Grass Bluegrass Bromegrass Fescue Oat hay Orchard Grass Forage Sorghum Sudangrass Timothy

NON GRASS ANIMAL FEEDS Including Alfalfa Velvet Bean Clover Kudzue Lespedeza Lupine Sainfoin refoil Crown Vetch Milk Vetch

HERBS AND SPICES Including Allspice Angelica Anise (anise seed) Anise [star] Annatto (seed) Balm (lemon balm) Basil Borage Burnet Camomile Caper buds Caraway Caraway [black] Cardamom Cassia bark Cassia buds Catnip Celery seed Chervil (dried) Chicory Chive Chive [Chinese] Cinnamon Clary Clove buds Coriander (cilantro or Chinese parsley) (leaf) Coriander (cilantro) (seed) Costmary Culantro (leaf) Culantro (seed) Cumin Curry (leaf) Dill (dillweed) Dill (seed) Fennel (common) Fennel [Florence] (seed) Fenugreek Grains of paradise Horehound Hyssop Juniper berry Lavender Lemongrass Lovage (leaf) Lovage (seed) Mace Marigold Marjoram (includes sweet or annual marjoram wild marjoram or oregano and pot marjoram) Mustard (seed) Nasturtium Nutmeg Oregano Mint Paprika

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Parsley (dried) Pennyroyal Pepper [black] Pepper [white] Poppy (seed) Rosemary Rue Saffron Sage Savory [summer and winter] Sweet bay (bay leaf) Tansy Tarragon Thyme Vanilla Wintergreen Woodruff Wormwood

**ADDITIONAL CROPS** Including Artichoke Asparagus Avocado Coffee Cotton Hops Jojoba Mushroom Okra Olives Peanuts Pineapple Rice Safflowers Sesame Sugar Cane Sunflower Tea

**TO KILL ANTS (EXCLUDING FIRE AND PHARAOH ANTS) ON ORCHARD FLOORS and Vineyard Floors** Apply as a broadcast spray to the entire orchard or vineyard floor using ground spray equipment at 5 to 17 fluid ounces per acre (367 ml to 1 1242 ml/Ha) in 25 or more gallons (95 L or more) of water For best results use the high rate for heavy infestations and the lower rate for light infestations

Do not apply where weed growth or other obstructions would impede uniform coverage of the orchard or vineyard floor Mow or chemically control weeds before the application Foliar applications of PyGanic® Crop Protection EC 5 0<sub>II</sub> may be made in addition to the orchard floor treatment

**USE ON GREENHOUSE FRUIT, VEGETABLE, FLOWER AND FOLIAGE PLANTS** Combine 16 to 32 fluid ounces with 100 gallons (1 25 ml to 2 50 ml/L) of water for applications with conventional sprayers or 7 to 15 ml (1/4 – 1/2 of a fluid ounce) per gallon (2 ml to 4 ml/L) of water for applications with handheld or backpack sprayers Apply the diluted product at the rate of 3 gallons/ 1 000 sq ft

Do not exceed Maximum application rate of 0.036 lbs ai /1 000 sq ft or 1.18 fl oz of PyGanic® Crop Protection EC 5 0<sub>II</sub> / 1 000 sq ft

Do not apply more than 1 time per day

**FOR USE IN VEGETABLE AND TRUCK GARDENS** For commercial production of listed crops to kill listed insects dilute 1/4 to 1/2 fl oz of PyGanic Crop Protection EC 5 0<sub>II</sub> per gallon of water (2 ml/ Liter of water to 4 ml/L of water) Apply diluted solution with all types of agricultural sprayers including compressed air sprayers or pump driven sprayers

**FOR USE ON PRODUCTION OF**

Beefalo	Elk	Livestock	Pullets
Birds	Emus	Llamas	Quail
Buffalo	Exotics	Mules	Ratites
Calves	Geese	Ostrich	Roosters
Cattle – beef and milking	Goats	Oxen	Sheep
Chickens	Hogs	Pheasants	Swine
Donkeys	Horses	Ponies	Turkeys
Ducks	Lambs	Poultry	

**FOR USE AS LIVESTOCK SPRAY**

Pest	Application Rates	Remarks
To kill horn flies house flies mosquitoes and gnats	Dilute at the rate of 1.5 to 3 fluid ounces per gallon of water (12 to 24 ml/Liter of water ) and apply to wet the hair thoroughly with particular attention to topline underline flanks withers and other infested areas	Repeat treatment at intervals of 5 to 12 days for small insect populations or as needed when flies are emerging in large numbers Do not apply more than 1 time per day
To kill stable flies horse flies and deer flies	Dilute at the rate of 2.5 to 4 fluid ounces per gallon of water (20 to 32 ml/L of water) and apply a quart per adult animal to wet the hair thoroughly with particular attention to the legs flanks barrel topline and other body areas commonly attacked by these flies	Repeat treatment each week as needed Do not apply more than 1 time per day
To kill face flies	Dilute at the rate of 2.5 fluid ounces per gallon of water (20 ml/L of water) and apply using spray which produces large wetting droplets Apply to the face of the animal in the morning before releasing to pasture Apply sufficiently to wet the face but not more than 1.5 fluid ounces (44 ml) of diluted solution per animal	Repeat daily as needed Do not apply more than 1 time per day

To kill of biting and sucking lice on cattle horses sheep goats and hogs	Dilute at the rate of 1 quart with 60 gallons of water [1.5 fluid ounces with 2 gallons (6 ml/L of water)] and spray to thoroughly wet the hair of the animal including the head and brush of the tail	Repeat treatment in 10 days to kill newly hatched lice Do not apply more than 1 time per day
To kill sheep tick or ked	Dilute at the rate of 1.5 to 3 fluid ounces per 4 gallons of water (3 to 6 ml/L of water) and thoroughly wet all portions of the body by dipping or by spraying with sufficient pressure and with a nozzle adjustment to give penetration of the wool	Treat at a rate sufficient to wet the animal Do not apply more than 1 time per day
To kill fleas and ticks on livestock and to obtain protection against reinfestation	Dilute at the rate of 9 fluid ounces per gallon (71ml/L) of water and wet the animal by dipping or spraying This product may also be used for livestock quarters	Do not spray pets For best results against fleas and ticks animal quarters and bedding should be treated Remove and destroy old bedding To reduce infestation thoroughly spray the animal's bedding and sleeping quarters Put fresh bedding in quarters after spray has dried Do not apply more than 1 time per day

**FOR USE AS POULTRY SPRAY**

To kill poultry lice	Using a dilution of 2.5 to 4 fluid ounces of concentrate per gallon of water (20 to 32 ml/L of water) spray roosts walls and nests or cages thoroughly	It is not necessary to remove poultry from the housing unit during treatment This should be followed by spraying over the birds with a fine mist Do not apply more than 1 time per day
To kill mites on poultry and in poultry houses	Dilute at the rate of 2.5 to 4 fluid ounces per gallon (20 to 32 ml/L of water) of water and spray crevices of roost poles cracks in walls and cracks in nests where the bedbugs and mites hide	This should be followed by spraying over the birds with a fine mist Do not apply more than 1 time per day
To kill adult darkling beetle (lesser meal worm)	Dilute 2 to 5 teaspoons (10 – 25 ml) of PyGanic® Livestock and Poultry Insecticide 5.0 <sub>II</sub> per gallon of water Using a power or proportioner type sprayer apply a uniform spray until wet at pressures of 80 to 100 pounds per square inch to surfaces such as interior walls roosting posts structural support pillars and other surfaces where adult beetles are observed One gallon of spray mixture covers 250 – 500 sq ft (23 m <sup>2</sup> – 46 m <sup>2</sup> )	For maximum effectiveness treatments should coincide with poultry house clean out and litter replacement as this activity will tend to flush beetles to vertical surfaces where they will be exposed to the spray Indoor control can be enhanced by making perimeter treatments around the outside of buildings To prevent immigrating adult beetles apply a uniform band of spray 2 feet (0.6 m) up and 1-4 feet (0.3 – 1.2 m) out from the foundation Do not contaminate food feed or water Do not apply more than 1 time per day

**FOR USE ON PRODUCTION ANIMALS IN BARN, DAIRIES, MILKING PARLORS, MILKING ROOMS AND POULTRY HOUSES**

Product must be formulated to deliver no more than this maximum rate when used according to directions

Surface application 0.0056 lbs ai/1000 sq ft or 18 fl oz of PyGanic Crop Protection EC 5.0<sub>II</sub>/1000 sq ft

Crack/crevice or spot surface – 0.056 lbs ai / 1 000 sq ft or 18 fl oz of PyGanic Crop Protection EC 5.0<sub>II</sub> / 100 sq ft

Space sprays when non domestic animals are absent 0.0033lbs ai / 1 000 cubic feet of space or 1 fl oz or 1 fl oz of PyGanic Crop Protection EC 5.0<sub>II</sub> / 1 000 cubic feet of space

Space sprays when non domestic animals are present 0.0008 lb ai/ 1000 cubic feet of space or 0.26 fl oz of PyGanic Crop Protection EC 5.0<sub>II</sub>/ 1 000 cubic feet of space

To kill the following flying insects Fruit Flies Gnats and Small Flying Moths dilute at the rate of 2.5 fluid ounces per gallon (19.82 ml/L) of water Apply as a fog or fine mist (at approximately 2 fluid ounces per 1000 cubic feet of space (2.08 ml/m<sup>3</sup>) directing the nozzle for maximum coverage and above livestock and poultry toward the ceiling and upper corners of the area being treated For best results close doors and windows before spraying and keep them closed for 10 to 15 minutes Applicator should vacate the treated area and ventilate it prior to returning Sweep up and destroy fallen insects

DIRECTIONS FOR USE IN COMMERCIAL ANIMAL PREMISE AUTOMATIC MISTING SYSTEMS

When using this product installers and service technicians must comply with the license certification or registration requirements of the state(s) tribe(s) or local authority(ies) where they are installed

Do not apply when food feed and or water is present

When applying via a remote activation device do not apply when people and pets are present If possible when applying via automatic timer set the timing for application when people and pets are unlikely to be present

Direct nozzles to spray towards the target area and away from areas where people are typically present Do not use in an evaporative cooling system Do not use in misters located within 3 feet of air vents air conditioner units or windows

If used in a system with a reservoir tank for the end use dilution the system reservoir tank must be locked Securely attach the end use pesticide label and a dilution statement to the system reservoir tank in a weather protected area or plastic sleeve The dilution statement must be phrased as follows this container holds \_\_\_ parts PyGanic® Crop Protection EC 5.0 to \_\_\_ parts water

This product must only be used in systems that have been calibrated to apply no more than the maximum application rate of 0.008 lbs a / 1 000 cubic feet space sprays when non domestic animals are present

**STORAGE AND DISPOSAL**

Do not contaminate water food or feed by storage or disposal

PESTICIDE STORAGE

Keep this product in its tightly closed original container when not in use Store in a cool dry (preferably locked) area that is inaccessible to children and animals

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility

CONTAINER DISPOSAL

Nonrefillable container Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying

[For containers with capacities equal to or less than 5 Gallons (18.9 L)]

Triple Rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container 1/2 full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times Offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities

Pressure rinse as follows [for containers greater than 5 Gallons (18.9L) too large to shake] Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds Drain for 10 seconds after the flow begins to drip Offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities

Manufactured by

13/19



8810 Tenth Avenue North  
Minneapolis MN 55427

EPA Reg No 1021 1772

EPA Est No 1021 MN 2

Net Contents \_\_\_\_\_



14/19

PyGanic® Crop Protection EC 5 0<sub>II</sub> Master Label

[Alternate Brand Name PyGanic Gardening EC 5 0<sub>II</sub>]

Sub-Label B For Organic Gardening  
For Residential Use

EPA REG No 1021 1772  
EPA EST No 1021 MN 2

**PyGanic® Gardening 5.0 II**



FOR ORGANIC GARDENING

[FOR USE ON NON FOOD ORNAMENTALS  
(TREES SHRUBS AND BEDDING PLANTS)]  
[FOR USE IN RESIDENTIAL GARDENS]  
[For use in Organic Gardening]

[Flushing Action]  
[Quick Knockdown]  
[Effective]  
[Fast acting]

ACTIVE INGREDIENT

Pyrethrins *a botanical insecticide*

5.00%

OTHER INGREDIENTS

95.00%

100.00%

MGK and PYGANIC® are registered trademarks of McLaughlin Gormley King Company All other marks are property of their respective holders

KEEP OUT OF REACH OF CHILDREN  
**CAUTION PRECAUCIÓN**

Si usted no entiende la etiqueta busque a alguien para que se la explique a usted en detalle  
(If you do not understand the label find someone to explain it to you in detail)

FIRST AID	
IF SWALLOWED	Call poison control center or doctor immediately for treatment advice Have person sip a glass of water if able to swallow Do not induce vomiting unless told to do so by the poison control center or doctor Do not give anything by mouth to an unconscious person
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
IF ON SKIN OR CLOTHING	Take off contaminated clothing Rinse skin immediately with plenty of water for 15 20 minutes 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 You may also contact 1 888 740 8712 for emergency medical treatment information	

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION**

Harmful if absorbed through skin Harmful if swallowed Causes moderate eye irritation Wash hands thoroughly with soap and water after handling and before eating drinking chewing gum using tobacco or the using toilet Avoid contact with skin eyes or clothing Prolonged or frequently repeated skin contact may cause allergic reactions in sensitive individuals Wear long sleeved shirt and long pants socks shoes and chemical resistant gloves

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic organisms including fish and invertebrates Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas This product may contaminate water through runoff This product has a potential for runoff for several weeks after application Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product This product is highly toxic to bees exposed to direct contact on blooming crops or weeds Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area Do not apply directly to water to areas where surface water is present or to intertidal areas below the mean high water mark Do not contaminate water when disposing of equipment wash waters or rinsate

DIRECTIONS FOR USE

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

Do not make applications during rain Do not allow adults children or pets to enter the treated area until sprays have dried Do not wet plants to point of runoff

TO KILL THE FOLLOWING INSECTS

12 spotted Cucumber Beetles	Cross striped Cabbageworms	Heliothis spp	Rice Weevils
Angoumois Grain Moths	Cucumber Beetles	Hornworms	Saltmarsh caterpillars
Ants (excluding fire and Pharaoh ants)	Dark Mealworms	House Flies	Saw Toothed Grain Beetles
Aphids	Darkling Beetles (lesser meal worm)	Imported Cabbageworms	Scales
Apple Maggots	Diamondback Larvae and Moths	Indian Meal Moths	Sharpshooters
Armored Scales	Dried Fruit Beetles	Japanese Beetles	Shore flies
Armyworms	Drugstore Beetles	Katydids	Shot hole borers
Artichoke Plume Moths	Earwigs	Lace Bugs	Silverfish
Asparagus Beetles	Eastern Tent Caterpillars	Leaf footed plant bugs	Skippers
Bagworms	Elm Leaf Beetles	Leafhoppers	Small Flying Moths
Bean Beetles	Eriophyd Mites	Leafminers	Soft Scales
Beet Armyworms	European Pine Tip Moths	Leafrollers	Southern chinch bugs
Beetles	Fire worms	Leaftiers	Sow bugs
Bermudagrass Mirids	Flea Beetles	Loopers	Spider Beetles
Billbugs	Forest Tent Caterpillars	Lygus	Springtails
Blister Beetles	Fruit Flies	Maggots	Squash bugs
Blow Flies	Fruit tree Leaf rollers	Mealy Bugs	Stable Flies
Boll Weevils	Fruitworms	Mediterranean Flour Moths	Stink Bugs
Boxelder Bugs	Fungus Gnats	Mexican Bean Beetles	Tarnished Plant Bugs
Branch and Twig Borers	Garden Symphylan	Midges	Thrips
Cabbage Loopers	Glassy Winged Sharpshooters	Millipedes	Tobacco Moths
Cabbage Maggots	Gnats	Mites	Tomato budworms
Cadellles	Grain Mites	Mole crickets	Tomato Fruit worms
Cankerworms	Grape Leaf Skeletonizers	Moths	Tomato Hornworms
Carrot Weevils	Grape Leafhoppers	Mushroom Flies	Tomato pinworms
Caterpillars	Grape Mealy bugs	Navel Orangeworms	Tomato Russet Mite
Chalcids	Grasshoppers	Olive Fruit Flies	Tussock moths
Cheese Skippers	Green bugs	Onion Maggots	Vine mealy bugs
Cherry Fruit Flies	Green Fruit Worms	Orange Tortrix	Vinegar Flies
Cigarette Beetles	Green Peach Aphids	Pacific flatheaded borers	Webworms
Clover Mites	Greenhouse Thrips	Pear Psyllids	Weevils
Clover Weevils	Gypsy Moths (adults & larvae)	Pepper Weevils	Western Yellow striped armyworms
Cockroaches	Harlequin Bugs	Pink bollworms	Whiteflies
Codling Moths		Potato Leafhoppers	Yellow Mealworms
Colorado Potato Beetles		Potato Tuberworms	
Confused Flour Beetles		Proba bugs	
Corn Earworms		Psyllids	
Crane Flies		Red Flour Beetles	
Crickets			

GENERAL PRECAUTIONS AND RESTRICTIONS

- Do not apply directly to or near water storm drains or drainage ditches
- Do not apply when windy
- To prevent product run off do not over water the treated area(s) or apply when heavy rain is expected Rinse applicator over lawn or garden area only
- Do not apply this product in a way that will contact workers or other persons either directly or through drift
- Do not make applications during the rain
- Do not wet plants to the point of runoff
- Not for use in outdoor residential misting systems
- Do not allow adults children or pets to enter the treated area until sprays have dried
- To avoid possible harm to honey bees it is advisable to apply in the early morning or late evening hours
- Not for indoor use



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Pyrethrins degrade rapidly in sunlight. To ensure the best performance coverage is key. Use spray equipment that will provide the best coverage and direct contact with as many insects as possible.

**IMPORTANT NOTE** Plant safety is an important consideration when using insecticides. However, it is not possible to evaluate the phytotoxicity of PyGanic® Gardening EC 5.0 on numerous plant varieties that may react differently to insecticides in different growth stages or under varying environmental conditions. Before making widespread applications of PyGanic® Gardening EC 5.0 or tank mix combinations, treat a limited number of plants and observe for phytotoxicity over a 10 day period.

**HOME GARDEN APPLICATIONS**

**Maximum application rates**

Garden and Orchard—0.05 lbs ai/acre or 0.012 lbs ai / 1,000 sq ft

Do not apply more than 10 times per season

Do not reapply within 3 days except under extreme pest pressure

In case of extreme pest pressure do not reapply within 24 hours

Dilute ¼ to ½ fluid ounces of PyGanic® Gardening EC 5.0 per gallon of water (2 to 4 ml/ L of water). For larger gardens apply 4.5 to 17 fluid ounces of PyGanic® Gardening EC 5.0 per acre (33 ml to 1,331 ml/Ha) or by ground equipment in sufficient water for thorough coverage. Mix only enough for immediate use. Apply diluted solution with a sprayer including compressed air sprayers or pump driven sprayers. Spraying should begin when insects first appear. Do not wait until plants are heavily infested. Repeat as needed but not more than once daily.

**ROOT AND TUBER VEGETABLES** Including Arracacha Arrowroot Purple Arrowroot Japanese Artichoke Jerusalem Artichoke Garden Beets Sugar Beets Edible Burdock Edible Canna Carrots Cassava (bitter or sweet) Celeriac (celery root) Chayote (root) Chervil (turnip rooted) Chicory Chufa Dasheen Ginger Ginseng Horseradish Leren Parsley (turnip rooted) Parsnip Potato Radish Japanese Radish (Daikon) Rutabaga Salsify Black Salsify Spanish Salsify Sweet Potato Tanier Turmeric Turnip Yam (true) Yam Bean

**LEAVES OF ROOT AND TUBER VEGETABLES** Including Garden Beet Sugar Beet Edible Burdock Carrot Cassava (bitter or sweet) Celeriac (celery root) Chervil (Turnip Rooted) Chicory Dasheen (Taro) Parsnip Radish Japanese Radish (Daikon) Rutabaga Black Salsify Sweet Potato Tanier Turnip Yam (true)

**BULB VEGETABLES** Including Garlic Great headed Garlic Leek Onion (bulb and green) Welch Shallot

**LEAFY VEGETABLES** Including Amaranth leafy Amaranth Chinese Spinach (Tampala) Arugula Cardoon Celery Chinese Celery Celtuce Chervil Corn Salad Chrysanthemum (edible leaved) Chrysanthemum (garland) Cress (garden water) Upland Cress (yellow rocket winter cress) Dandelion Dock (sorrel) Endive (escarole) Fennel (Florence) Lettuce (head and leafy) Orach Parsley Purslane (garden & winter) Radicchio Rhubarb Spinach Fine Spinach (Melabar Ceylon) Spinach (New Zealand) Swiss Chard

**BRASSICA (COLE) LEAFY VEGETABLES** Including Broccoli Chinese Broccoli (Gai Lan) Broccoli raab (Rapini) Brussel Sprouts Cabbage Chinese Cabbage (Bok Choy) Chinese Cabbage (Napa) Chinese Mustard Cabbage (Gai Choy) Cauliflower Cavallo broccoli Collards Kale Kohlrabi Mizuna Mustard Greens Mustard Spinach Pope Greens

**LEGUME VEGETABLES (SUCCULENT OR DRIED)** Including Adzuki Beans Field Beans Kidney Beans Lima Beans Moth Beans Mung Beans Navy Beans Pinto Beans Rice Beans Runner Beans Snap Beans Tepary Beans Urd Beans Wax Beans Asparagus Beans Black eyed Peas Chiyang Chinese Longbeans Cowpeas Crowder Peas Southern Peas Yard longbeans Broad Beans (Fava Beans) Chick Peas (Garbanzo Beans) Guar Jackbean (Sword Bean) Lablab Bean (Hyacinth Bean) Lentils Peas (Garden Peas Field Peas Sugar Snap Peas English Pea Snow Pea) Pigeon Peas Soybeans Sweet Lupin Beans White Lupin Beans White Sweet Lupin Sword Bean

**FOLIAGE OF LEGUME VEGETABLES** Including Plant part of any legume vegetable included in the legume vegetable group that will be used as animal feed including any variety of Beans Field Peas Soybeans

**FRUITING VEGETABLES** Including Eggplant Ground Cherry Okra Pepinos Pepper (Bell Pepper Chili Peppers Cooking Peppers Pimentos Sweet Peppers) Tomatillo Tomatoes

**CUCURBIT VEGETABLES** Including Bal an Apple Balsam Pear (Bitter Melon) Chayote (fruit) Chinese Waxgourd (Chinese preserving melon) Chinese Cucurbit Citron Melon Cucumber Gherkin Edible Gourds Melons (including hybrids Cantaloupe Casaba Golden Persian Melon Crenshaw Honeydew Melons Honey Balls Mango Melon

Muskmelon Persian Melon Pineapple Melon Santa Claus Melon Snake Melon Pumpkin Squash (summer & winter) Watermelon (including hybrids)

CITRUS FRUITS Including Calamondin Citrus Citron Citrus Hybrids Grapefruit Kumquats Lemons Limes Mandarin (Tangerine) Orange (sweet & sour) Pummelo Satsuma Mandarin (Citrus spp Includes Chironja Tangelos Tangors)

POME FRUITS Including Apple Crabapple Loquat Mayhaw Pear Oriental Pear Quince

STONE FRUITS Including Apricot Cherry (sweet & sour) Nectarine Peach Plum Prune Chickasaw Plum Damson Plum Japanese Plum Plumcot

SMALL FRUITS AND BERRIES Including Blackberry Blueberry Cranberry Currant Dewberry Elderberry Gooseberry Grape Huckleberry Loganberry Olallie Berry Raspberry (black & red) Strawberry Youngberry

TREE NUTS Including Almond Beech Nut Brazil Nut Butternut Cashew Chestnut Chinquapin Filbert (hazel nut) Hickory nut Macadamia Nut (Bush Nut) Pecan Pistachio Walnut Black and English (Persian)

ORIENTAL VEGETABLES Including Acerola Atemoya Balsam pear (bitter melon) Carambola Japanese Artichoke Chinese Broccoli (Gai Lan) Chinese Cabbage (Bok Choy Napa) Chinese Mustard Cabbage (Gai Choy) Dasheen Ginger Ginseng Chinese Longbeans Mung Beans Citron Melon Japanese Radish (Daikon) Chinese Spinach Chinese Waxgourd Cilantro Citron Melon Rambutan Water Chestnut

SUBTROPICAL FRUITS Including Avocado Banana Carob Barbados Cherry Cherimoya Dates Durian (Jackfruit) Feijoa Figs Guava Kiwifruit Lychee Mando Papaya Passion Fruit Persimmon Pineapple Pomegranate

HERBS AND SPICES Including Allspice Angelica Anise (anise seed) Anise [star] Annatto (seed) Balm (lemon balm) Basil Borage Burnet Camomile Caper buds Caraway Caraway [black] Cardamom Cassia bark Cassia buds Catnip Celery seed Chervil (dried) Chicory Chinese Chive [Chinese] Cinnamon Clary Clove buds Coriander (cilantro or Chinese parsley) (leaf) Coriander (cilantro) (seed) Costmary Culantro (leaf) Culantro (seed) Cumin Curry (leaf) Dill (dillweed) Dill (seed) Fennel (common) Fennel [Florence] (seed) Fenugreek Grains of paradise Horehound Hyssop Juniper berry Lavender Lemongrass Lovage (leaf, Lovage (seed) Mace Marigold Marjoram (includes sweet or annual marjoram wild marjoram or oregano and pot marjoram) Mustard (seed) Nasturtium Nutmeg Oregano Mint Paprika Parsley (dried) Pennyroyal Pepper [black] Pepper [white] Poppy (seed) Rosemary Rue Saffron Sage Savory [summer and winter] Sweet bay (bay leaf) Tansy Tarragon Thyme Vanilla Wintergreen Woodruff Wormwood

ADDITIONAL PLANTS Including Artichoke Asparagus Avocado Coffee Cotton Hops Jojoba Mushroom Okra Olives Peanuts Pineapple Rice Safflower Sesame Sugar Cane Sunflower Tea

FOR USE ON ORNAMENTAL PLANTS GROWN IN GARDENS Including African Violet Ageratum Aster Azalea Begonia Calceolaria Calendula Calla Clematis Carnation Ceanothus Cineraria Chrysanthemum Coleus Cyclamen Cypress Daffodil Dahlia Delphinium Dogwood Elm Eucalyptus Fern Ficus Foliage Plants Fuchsia Gardenia Geranium Gladiolus Gloxinia Gypsophila Holly Hyacinth Hydrangea Iris Lily Maidenhair Fern Marigold Narcissus Palm Pansy Peony Pelargonium Petunia Philodendron Phlox Pine Pyracantha Rhododendron Roses Rubber Plant Snapdragon Sweet Pea Tulips Viburnum Wandering Jew Yew Zinnia and Andromeda Arborvitae Ash Beech Birch Boxwood Cotoneaster Crabapple Euonymus Fir Firethorn Forsythia Hawthorn Hemlock Hickory Horse Locust Horse Chestnut Juniper Larch Laurel Linden Mimosa Myrtle Oak Pine Privet Tulip Tree Viburnum Willow

**STORAGE AND DISPOSAL**

Do not contaminate water food or feed by storage or disposal

19/19

**PESTICIDE STORAGE**

Keep this product in its tightly closed original container when not in use. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals.

**PESTICIDE DISPOSAL**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL**

Nonrefillable container. Do not reuse or refill this container.

**If empty**

Offer for recycling, if available.

**If partly filled**

Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**(Place on containers for Residential Use)**

Manufactured by



8810 Tenth Avenue North  
Minneapolis, MN 55427

EPA Reg No 1021 1772

EPA Est No 1021 MN 2

Net Contents \_\_\_\_\_

**NEXT**

**LABEL**

1021-1772

6/26/2012

1/21



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON D C 20460 0001

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

June 26 2012

Mr Thomas A Lennan  
Regulatory Affairs Specialist  
McLaughlin Gormley King Company  
8810 Tenth Avenue North  
Minneapolis MN 55427 4319

**Subject Label Notification(s) Pesticide Registration Notification (PRN) 98 10  
MGK® PyGanic® Crop Protection EC 5 0<sub>IV</sub>, EPA Reg No 1021 1772  
Your Submission Dated May 21 2012**

Dear Mr Lennan

The Agency is in receipt of your application for Pesticide Notification under Pesticide Registration Notification (PRN) 98 10 dated May 21 2012 for the referenced product The Registration Division has conducted a review of this request for its applicability under PRN 98 10 and finds that the action(s) requested fall within the scope of PRN 98 10

Please be reminded that 40 CFR §156 140(a)(4) requires that a batch code lot number or other code identifying the batch of the pesticide distributed and sold be placed on non refillable containers The code may appear either on the label (and can be added by non Notification/PRN 98 10) or durably marked on the container itself

The label submitted with this application has been time stamped Notification and will be placed within the administrative file for this product If you have any questions please contact Mr Carmen Rodia at (703) 306 0327 or via e mail at [Rodia.Carmen@epa.gov](mailto:Rodia.Carmen@epa.gov)

Sincerely yours

*FOR*  
= Handwritten signature of Richard J Gebken in black ink.

Richard J Gebken  
Product Manager (10)  
Insecticide Branch  
Registration Division (7504P)



United States  
Environmental Protection Agency  
Washington, DC 20460

Registration  
Amendment  
Other

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number 1021-1772	2. EPA Product Manager Richard Gebken	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) PyGanic® Crop Protection 5.0 II	PM# 10	
5. Name and Address of Applicant (Include Zip Code) McLAUGHLIN GORMLEY KING COMPANY 8810 TENTH AVENUE NORTH MINNEAPOLIS, MN 55427	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:	
<input type="checkbox"/> Check if this is a new address	EPA Reg. No.	<b>NOTIFICATION</b>
	Product Name	<b>JUN 26 2012</b>

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Notification pursuant to PR-Notice 98-10

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
*Certification must be submitted		If "Yes" Unit Packaging wgt. 6X1 Pint	No. per container 1X 55Gallon	If "Yes" Package wgt.	No. per container
3. Location of Net Contents information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 Pint 55 Gallon		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other	

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Thomas A. Lennan	Title Regulatory Affairs Specialist	Telephone No. (Include Area Code) (763) 544-0341
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received  (Stamped)
2. Signature 	3. Title Regulatory Affairs Specilaist	
4. Typed Name Thomas A. Lennan	5. Date 5/21/2012	

3/21



May 21 2012

Document Processing Desk (NOTIF)  
U S ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs (H7504P)  
Room S 4900 One Potomac Yard  
2777 South Crystal Dr  
Arlington VA 22202 4501

Via Courier

**NOTIFICATION**

**JUN 26 2012**

Subject PyGanic® Crop Protection EC 5 0 II  
EPA Reg No 1021 1772  
Notification Pursuant to PR Notice 98 10

Dear Sir or Madam

By Notification we are adding a General Use Directions Heading that was inadvertently dropped from the label Also we are deleting a reference to treating pets since this product is strictly for use in Organic Production We are also reinstating the following accepted pests Fleas Ticks and Poultry Lice to the pest listing on pages 4 & 5 since these pests have been accepted by the Agency in the Livestock section of the label

Enclosed are two copies of our label 1 copy has changes highlighted in color

This Notification is consistent with the provisions of PR Notice 98 10 and EPA regulations at 40 CFR 152 46 and no other changes have been made to the labeling or the confidential statement of formula of this product I understand that it is a violation of 18 U S C Sec 1001 to willfully make any false statement to EPA I further understand that if this notification is not consistent with the terms of PR Notice 98 10 and 40 CFR 152 46 then this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA

If there are any questions or you need anything further please contact this office

Sincerely  
McLaughlin Gormley King Company

Thomas A Lennan  
Regulatory Affairs Specialist

Enclosure  
8810 Tenth Avenue North  
Minneapolis MN 55427

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NOTIFICATION

JUN 26 2012

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PyGanic® Crop Protection EC 5.0, Master Label

Sub-Label A For Agricultural /Livestock/ Commercial Use Only  
Not For Residential Use

EPA REG No 1021 1772  
EPA EST No 1021 MN 2



5/21

# PyGanic® Crop Protection EC 5.0 II

For Organic Production



<b>GROUP</b>	<b>3A</b>	<b>INSECTICIDE</b>
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[For use on growing crops]  
 [For use in Organic Production]  
 [Flushing Action] [Quick Knockdown]  
 [Effective] [Fast Acting]  
 [Can be used on Day of Harvest]  
 [One Gallon Treats up to 28 acres]  
 [Provides rapid knockdown & kill of listed plant pests]  
 [For Use on over 200 fruits and vegetables]  
 [Kills more than 100 insects]  
 [Flushes insects from hiding]

[Non persistent in the environment]  
 [Low Odor] [Non corrosive to spray equipment]  
 [Flushes insects and mites from hiding]  
 [Quick Knockdown]  
 [Effective] [Fast Acting]  
 [Flushes insects and mites from hiding]  
 [Non persistent in the environment]  
 [Kills Key Livestock pests]  
 [Low Odor]  
 [Non corrosive to spray equipment]

**ACTIVE INGREDIENT**

Pyrethrins

5.00%

**OTHER INGREDIENTS**

95.00%

100.00%

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## KEEP OUT OF REACH OF CHILDREN CAUTION PRECAUCIÓN

Si usted no entiende la etiqueta busque a alguien para que se la explique a usted en detalle  
(If you do not understand the label find someone to explain it to you in detail)

FIRST AID	
IF SWALLOWED	Call a poison control center or doctor immediately for treatment advice Have person sip a glass of water if able to swallow Do not induce vomiting unless told to do so by the poison control center or doctor Do not give anything by mouth to an unconscious person
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
IF ON SKIN OR CLOTHING	Take off contaminated clothing Rinse skin immediately with plenty of water for 15 20 minutes 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 You may also contact 1 888 740 8712 for emergency medical treatment information	

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

Harmful if absorbed through skin Harmful if swallowed Causes moderate eye irritation Wash hands thoroughly with soap and water after handling and before eating drinking chewing gum using tobacco or using the toilet Avoid contact with skin eyes or clothing Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals Wear long sleeved shirt and long pants socks shoes and chemical resistant gloves

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Mixers, loaders, applicators, and other handlers must wear the following:  
long sleeve shirt  
long pants  
shoes and socks, and  
chemical resistant gloves

In addition to the above PPE, applicators using hand-held foggers in an enclosed area must wear a half-face, full-face, or hood-style NIOSH-approved respirator with:  
a dust/mist filtering cartridge (MSHA/NIOSH approval number prefix TC 21C) or  
a canister approved for pesticides ((MSHA/NIOSH approval number prefix TC 14G) or  
a cartridge or canister with any R, P, or HE filter.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep PPE and wash PPE separately from other laundry.

Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

When handlers use aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides 40 CFR 170.240 (d) (4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters or rinsate.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency for pesticide regulation.

**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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas (that is permitted under Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water) is:

- Long sleeved shirt and long pants
- Chemical resistant gloves, such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton
- 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.

Do not enter or allow others to enter until vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated.

Do not enter or allow others to enter until sprays have dried.

**INDOOR AREAS FOR USE IN AND AROUND**

Greenhouses

OUTDOOR AREAS for use in and around

- Nurseries
- Outdoor Growing Crops

**TO KILL THE FOLLOWING INSECTS**

- |  |                            |                                     |                               |
|--|----------------------------|-------------------------------------|-------------------------------|
| 12 spotted Cucumber Beetles            | Cabbage Loopers            | Dark Mealworms                      | Garden Symphylan              |
| Angoumois Grain Moths                  | Cabbage Maggots            | Darkling Beetles (lesser meal worm) | Glassy Winged Sharpshooters   |
| Ants (excluding fire and Pharaoh ants) | Caddisflies                | Diamondback Larvae and Moths        | Gnats                         |
| Aphids                                 | Cankerworms                | Dried Fruit Beetles                 | Grain Mites                   |
| Apple Maggots                          | Carrot Weevils             | Drugstore Beetles                   | Grape Leaf Skeletonizers      |
| Armored Scales                         | Caterpillars               | Earwigs                             | Grape Leafhoppers             |
| Armyworms                              | Chalcids                   | Eastern Tent Caterpillars           | Grape Mealy bugs              |
| Artichoke Plume Moths                  | Cheese Skippers            | Elm Leaf Beetles                    | Grasshoppers                  |
| Asparagus Beetles                      | Cherry Fruit Flies         | Eriophyd Mites                      | Green bugs                    |
| Bagworms                               | Cigarette Beetles          | European Pine Tip Moths             | Green Fruit Worms             |
| Bean Beetles                           | Clover Mites               | Fire worms                          | Green Peach Aphids            |
| Beet Armyworms                         | Clover Weevils             | Flea Beetles                        | Greenhouse Thrips             |
| Beetles                                | Cockroaches                | <u>Fleas</u>                        | Gypsy Moths (adults & larvae) |
| Bermudagrass Mirids                    | Codling Moths              | Forest Tent Caterpillars            | Harlequin Bugs                |
| Billbugs                               | Colorado Potato Beetles    | Fruit Flies                         | Heliopsis spp                 |
| Blister Beetles                        | Confused Flour Beetles     | Fruit tree Leaf rollers             | Hornworms                     |
| Blow Flies                             | Corn Earworms              | Fruitworms                          | House Flies                   |
| Blow Flies                             | Crane Flies                | Fungus Gnats                        | Imported Cabbageworms         |
| Boll Weevils                           | Crickets                   |                                     |                               |
| Boxelder Bugs                          | Cross striped Cabbageworms |                                     |                               |
| Branch and Twig Borers                 | Cucumber Beetles           |                                     |                               |

Indian Meal Moths	Mole crickets	Saltmarsh caterpillars	Thrips
Japanese Beetles	Moths	Saw Toothed Grain	<u>Ticks</u>
Katydid	Mushroom Flies	Beetles	Tobacco Moths
Lace Bugs	Navel Orangeworms	Scales	Tomato budworms
Leaf footed plant bugs	Olive Fruit Flies	Sharpshooters	Tomato bugs
Leafhoppers	Onion Maggots	Shore flies	Tomato Fruit worms
Leafminers	Orange Tortrix	Shot hole borers	Tomato Hornworms
Leafrollers	Pacific flatheaded	Silverfish	Tomato pinworms
Leaf tiers	borers	Skippers	Tomato Russet Mite
Loopers	Pear Psyllids	Small Flying Moths	Tussock moths
Lygus	Pepper Weevils	Soft Scales	Vine mealy bugs
Maggots	Pink bollworms	Southern chinch bugs	Vinegar Flies
Mealy Bugs	Potato Leafhoppers	Sow bugs	Webworms
Mediterranean Flour	Potato Tuberworms	Spider Beetles	Weevils
Moths	Proba bugs	Springtails	Western Yellow striped
Mexican Bean Beetles	Psyllids	Squash bugs	armyworms
Midges	<u>Poultry Lice</u>	Stable Flies	Whiteflies
Millipedes	Red Flour Beetles	Stink Bugs	Yellow Mealworms
Mites	Rice Weevils	Tarnished Plant Bugs	

**GENERAL PRECAUTIONS AND RESTRICTIONS**

- Do not apply this product in a way that will contact workers or other persons either directly or through drift
- Only protected handlers may be in the area during application
- Not for use in outdoor metered release devices
- Keep unprotected persons out of treated areas until sprays have dried
- Allow spray to dry before allowing adults children or pets on treated areas
- Do not wet plants to the point of runoff or drip
- Do not apply more than 10 times per season
- Do not reapply within 3 days except under extreme pest pressure
- In case of extreme pest pressure do not reapply within 24 hours
- For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation.
- Not for use in outdoor residential misting systems
- Do not apply when food feed and or/water is present
- Not for indoor use except in greenhouses

**Spray Drift Management for Agricultural Crops**

- Avoiding spray drift at the application site is the responsibility of the applicator and the grower The interactions of many equipment and weather related factors determine the potential for spray drift The applicator and the grower are responsible for considering all these factors when making decisions
- Do not apply at wind speeds greater than 10 mph at the application site
- Do not make any type of application into temperature inversions
- Apply as a medium or coarser spray (ASABE standard 572)

**Additional Requirements for Aerial Applications**

- Do not release spray at a height greater than 10 feet above the ground or crop canopy
- The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter
- Aerial applicators must consider flight speed and nozzle orientation in determining droplet size
- When applications are made with a cross wind the swath will be displaced downwind The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind

**Additional requirements for ground applications**

- Do not release spray at a height greater than 4 feet above the ground or crop canopy

**Additional requirements for airblast applications**

- Direct sprays into the canopy
- Turn off outward pointing nozzles at row ends and when spraying outer rows

**PESTICIDE RESISTANCE MANAGEMENT**

PyGanic® Crop Protection EC 5 0<sub>II</sub> contains a Group 3A insecticide. Insect biotypes with acquired resistance to Group 3A may eventually dominate the insect population if Group 3A insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by PyGanic® Crop Protection EC 5 0<sub>II</sub> or other Group 3A insecticides.

To delay insecticide resistance consider

- Avoiding the consecutive use of PyGanic® Crop Protection EC 5 0<sub>II</sub> or other group 3A insecticides that have a similar target site of action on the same insect species
- Using tank mixtures or premixes with insecticides from a different target site of action Group as long as the involved products are all registered for the same use and have different sites of action
- Basing insecticide use on a comprehensive IPM program
- Monitoring treated insect population for loss of field efficacy
- Contacting your local extension specialist, certified crop advisors, and/or manufacturer for insecticide resistance management and or IPM recommendations for the specific site and resistance pest problems

**GENERAL USE DIRECTIONS**

**IMPORTANT** It is recommended that the final spray mix be buffered to a pH of 5.5-7.0. Outside of this range pyrethrins can degrade and the product will lose effectiveness.

To avoid possible harm to honey bees and other beneficial insects, it is advisable to apply when the non target insects are least active.

Pyrethrins degrade rapidly in sunlight. To ensure the best performance, coverage is key. Use spray equipment that will provide the best coverage and direct contact with as many insects as possible.

Kills only at time of application. Listed insect pests must be directly contacted to be effective.

**TANK MIX** This product may be tank mixed with other insecticides, acaricides, fungicides, adjuvants, and wetting agents. This application should conform to accepted use precautions and directions for both products. Tank mix applications must be made in accordance with the more restrictive of label limitations and precautions. No label application rates may be exceeded. This product cannot be mixed with any product with label prohibitions against such mixing.

Prior to tank mixing, a compatibility test should be conducted using the proper proportions of products and water to ensure the physical compatibility of the mixture.

**IMPORTANT NOTE** Plant safety is an important consideration when using insecticides in a greenhouse. However, it is not possible to evaluate the phytotoxicity of PyGanic® Crop Protection EC 5 0<sub>II</sub> on numerous plant varieties that may react differently to insecticides in different growth stages or under varying environmental conditions. Before making widespread applications of PyGanic® Crop Protection EC 5 0<sub>II</sub> or tank mix combinations, treat a limited number of plants and observe for phytotoxicity over a 10 day period.

**DIRECTIONS FOR APPLICATION THROUGH IRRIGATION SYSTEMS (CHEMIGATION)**

Apply this product only through sprinkler (including center pivot, lateral move, end tow, side (wheel) roll traveler, big gun, solid set, or hand move) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for the operation or under the supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise.

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The system must contain a functional check valve vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump The pesticide injection pipeline must also contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the pump motor stops The irrigation line or water pump must include a functional pressure valve which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected

Systems must be a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

Do not apply when wind speed favors drift beyond the area intended for treatment

Constant agitation must be maintained in the chemical supply tank during the entire period of insecticide application Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of more dilute suspension per unit of time

**GROWING CROPS (OUTDOORS AND IN GREENHOUSES AND NURSERIES)**

Apply 4.5 to 17 fluid ounces per acre (333 ml to 1,242 ml/Ha) by ground equipment in sufficient water for thorough coverage This product may be applied by air at the rate of 4.5 to 17 fluid ounces per acre (333 ml to 1,242 ml/Ha) in a minimum of 20 gallons (75.6L) of water Mix only enough for immediate use Spraying should begin when insects first appear Do not wait until plants are heavily infested Repeat as needed but not more than once daily

PyGanic® Crop Protection EC 5.0 may be used on most crops because its active ingredient is exempt from tolerances when applied to growing crops The crop grouping scheme used on this label was devised by the Environmental Protection Agency to expedite minor use pesticide registration Each crop grouping on this label contains the phrase "including but not limited to" and then lists a number of crops in each group This wording allows the use of PyGanic® Crop Protection EC 5.0 on crops that may not be specifically listed on this label (providing that the group to which the crop belongs is listed)

**Maximum application rates**

Field and Orchard—0.05 lbs a.i./ acre or 17 fl. oz. of PyGanic® Crop Protection EC 5.0 per acre 0.0012 lb a.i. / 1,000 sq ft

Greenhouse space sprays 0.0014 lbs a.i./acre

**ROOT AND TUBER VEGETABLES** Including Arracacha Arrowroot Purple Arrowroot Japanese Artichoke Jerusalem Artichoke Garden Beets Sugar Beets Edible Burdock Edible Canna Carrots Cassava (bitter or sweet) Celeriac (celery root) Chayote (root) Chervil (turnip rooted) Chicory Chufa Dasheen Ginger Ginseng Horseradish Leren Parsley (turnip rooted) Parsnip Potato Radish Japanese Radish (Daikon) Rutabaga Salsify Black Salsify Spanish Salsify Sweet Potato Tanier Turmeric Turnip Yam (true) Yam Bean

**LEAVES OF ROOT AND TUBER VEGETABLES** Including Garden Beet Sugar Beet Edible Burdock Carrot Cassava (bitter or sweet) Celeriac (celery root) Chervil (Turnip Rooted) Chicory Dasheen (Taro) Parsnip Radish Japanese Radish (Daikon) Rutabaga Black Salsify Sweet Potato Tanier Turnip Yam (true)

**BULB VEGETABLES** Including Garlic Great headed Garlic Leek Onion (bulb and green) Welch Shallot

**LEAFY VEGETABLES** Including Amaranth (Leafy Amaranth Chinese Spinach Tampala) Arugula Cardoon Celery Chinese Celery Celtuce Chervil Corn Salad Chrysanthemum (edible leaved) Chrysanthemum (garland) Cress (garden water) Upland Cress (yellow rocket winter cress) Dandelion Dock (sorrel) Endive (escarole) Fennel (Florence) Lettuce (head and leafy) Orach Parsley Purslane (garden & winter) Radicchio Rhubarb Spinach Fine Spinach (Melabar Ceylon) Spinach (New Zealand) Swiss Chard

**BRASSICA (COLE) LEAFY VEGETABLES** Including Broccoli Chinese Broccoli (Gai Lan) Broccoli raab (Rapini) Brussel Sprouts Cabbage Chinese Cabbage (Bok Choy) Chinese Cabbage (Napa) Chinese Mustard Cabbage (Gai Choy) Cauliflower Cavallo broccoli Collards Kale Kohlrabi Mizuna Mustard Greens Mustard Spinach Rape Greens

LEGUME VEGETABLES (SUCULENT OR DRIED) Including Adzuki Beans Field Beans Kidney Beans Lima Beans Moth Beans Mung Beans Navy Beans Pinto Beans Rice Beans Runner Beans Snap Beans Tepary Beans Urd Beans Wax Beans Asparagus Beans Black eyed Peas Catjang Chinese Longbeans Cowpeas Crowder Peas Southern Peas Yard longbeans Broad Beans (Fava Beans) Chick Peas (Garbanzo Beans) Guar Jackbean (Sword Bean) Lablab Bean (Hyacinth Bean) Lentils Peas (Garden Peas Field Peas Sugar Snap Peas English Pea Snow Pea) Pigeon Peas Soybeans Sweet Lupin Beans White Lupin Beans White Sweet Lupin Sword Bean

FOLIAGE OF LEGUME VEGETABLES Including Plant part of any legume vegetable included in the legume vegetable group that will be used as animal feed including any variety of Beans Field Peas Soybeans

FRUITING VEGETABLES Including Eggplant Ground Cherry Okra Pepinos Pepper (Bell Pepper Chili Peppers Cooking Peppers Pimentos Sweet Peppers) Tomatillo Tomatoes

CUCURBIT VEGETABLES Including Balsam Apple Balsam Pear (Bitter Melon) Chayote (fruit) Chinese Waxgourd (Chinese preserving melon) Chinese Cucumber Citron Melon Cucumber Gherkin Edible Gourds Melons (including hybrids Cantaloupe Casaba Golden Perhsaw Melon Crenshaw Honeydew Melons Honey Balls Mango Melon Muskmelon Persian Melon Pineapple Melon Santa Claus Melon Snake Melon) Pumpkin Squash (summer & winter) Watermelon (including hybrids)

CITRUS FRUITS Including Calamondin Citrus Citron Citrus Hybrids Grapefruit Kumquats Lemons Limes Mandarin (Tangerine) Orange (sweet & sour) Pummelo Satsuma Mandarin (Citrus spp Includes Chironja Tangelos Tangors)

POME FRUITS Including Apple Crabapple Loquat Mayhaw Pear Oriental Pear Quince

STONE FRUITS Including Apricot Cherry (sweet & sour) Nectarine Peach Plum Prune Chickasaw Plum Damson Plum Japanese Plum Plumcot

SMALL FRUITS AND BERRIES Including Blackberry Blueberry Cranberry Currant Dewberry Elderberry Gooseberry Grape Huckleberry Loganberry Olallie Berry Raspberry (black & red) Strawberry Youngberry

TREE NUTS Including Almond Beech Nut Brazil Nut Butternut Cashew Chestnut Chinquapin Filbert (hazel nut) Hickory nut Macadamia Nut (Bush Nut) Pecan Pistachio Walnut Black and English (Persian)

ORIENTAL VEGETABLES Including Acerola Ateemoya Balsam pear (bitter melon) Carambola Japanese Artichoke Chinese Broccoli (Gai Lan) Chinese Cabbage (Bok Choy Napa) Chinese Mustard Cabbage (Gai Choy) Dasheen Ginger Ginseng Chinese Longbeans Mung Beans Citron Melon Japanese Radish (Daikon) Chinese Spinach Chinese Waxgourd Cilantro Citron Melon Rambutan Water Chestnut

SUBTROPICAL FRUITS Including Avocado Banana Carob Barbados Cherry Cherimoya Dates Durian (Jackfruit) Feijoa Figs Guava Kiwifruit Lychee Mango Papaya Passion Fruit Persimmon Pineapple Pomegranate

CEREAL GRAINS Including Barley Buckwheat Corn (sweet and field) Millet Proso Oats Pearl Millet Popcorn Rice Rye Sorghum (Milo) Teosine Triticale Wheat Wild Rice

FORAGE, FODDER AND STRAW OF CEREAL GRAINS Including Barley Buckwheat Corn (sweet and field) Millet Proso Oats Pearl Popcorn Rice Rye Sorghum (milo) Teosine Triticale Wheat Wild rice

GRASSES FOR SEED, FORAGE, FODDER AND HAY Including any grass (Gramineal family green or cured except sugarcane and those listed in the cereal grains group) Pasture and Range Grasses Grasses grown for hay and silage Bermuda Grass Bluegrass Bromegrass Fescue Oat hay Orchard Grass Forage Sorghum Sudangrass Timothy

NON GRASS ANIMAL FEEDS Including Alfalfa Velvet Bean Clover Kudzue Lespedeza Lupine Sainfoin Trefol Crown Vetch Milk Vetch

HERBS AND SPICES Including Allspice Angelica Anise (anise seed) Anise [star] Annatto (seed) Balm (lemon balm) Basil Borage Burnet Camomile Caper buds Caraway Caraway [black] Cardamom Cassia bark Cassia buds Catnip Celery seed Chervil (dried) Chicory Chive Chive [Chinese] Cinnamon Clary Clove buds Coriander (cilantro or Chinese parsley) (leaf) Coriander (cilantro) (seed) Costmary Culantro (leaf) Culantro (seed) Cumin Curry (leaf) Dill (dillweed) Dill (seed) Fennel (common) Fennel [Florence] (seed) Fenugreek Grains of paradise Horehound Hyssop Juniper berry Lavender Lemongrass Lovage (leaf) Lovage (seed) Mace Marigold Marjoram (includes sweet or annual marjoram wild marjoram or oregano and pot marjoram) Mustard (seed) Nasturtium Nutmeg Oregano Mint Paprika

Parsley (dried) Pennyroyal Pepper [black] Pepper [white] Poppy (seed) Rosemary Rue Saffron Sage Savory [summer and winter] Sweet bay (bay leaf) Tansy Tarragon Thyme Vanilla Wintergreen Woodruff Wormwood

**ADDITIONAL CROPS** Including Artichoke Asparagus Avocado Coffee Cotton Hops Jojoba Mushroom Okra Olives Peanuts Pineapple Rice Safflowers Sesame Sugar Cane Sunflower Tea

**TO KILL ANTS (EXCLUDING FIRE AND PHARAOH ANTS) ON ORCHARD FLOORS and Vineyard Floors** Apply as a broadcast spray to the entire orchard or vineyard floor using ground spray equipment at 5 to 17 fluid ounces per acre (367 ml to 1 1242 ml/Ha) in 25 or more gallons (95 L or more) of water For best results use the high rate for heavy infestations and the lower rate for light infestations

Do not apply where weed growth or other obstructions would impede uniform coverage of the orchard or vineyard floor Mow or chemically control weeds before the application Foliar applications of PyGanic® Crop Protection EC 5 0<sub>II</sub> may be made in addition to the orchard floor treatment

**USE ON GREENHOUSE FRUIT, VEGETABLE, FLOWER AND FOLIAGE PLANTS** Combine 16 to 32 fluid ounces with 100 gallons (1 25 ml to 2 50 ml/L) of water for applications with conventional sprayers or 7 to 15 ml (1/4 – 1/2 of a fluid ounce) per gallon (2 ml to 4 ml/L) of water for applications with handheld or backpack sprayers Apply the diluted product at the rate of 3 gallons/ 1 000 sq ft

Do not exceed Maximum application rate of 0036 lbs ai /1 000 sq ft or 1 18 fl oz of PyGanic® Crop Protection EC 5 0<sub>II</sub> / 1 000 sq ft  
Do not apply more than 1 time per day

**FOR USE IN VEGETABLE AND TRUCK GARDENS** For commercial production of listed crops to kill listed insects dilute 1/4 to 1/2 fl oz of PyGanic Crop Protection EC 5 0<sub>II</sub> per gallon of water (2 ml/ Liter of water to 4 ml/L of water) Apply diluted solution with all types of agricultural sprayers including compressed air sprayers or pump driven sprayers

**FOR USE ON PRODUCTION OF**

Beefalo	Elk	Livestock	Pullets
Birds	Emus	Llamas	Quail
Buffalo	Exotics	Mules	Ratites
Calves	Geese	Ostrich	Roosters
Cattle – beef and milking	Goats	Oxen	Sheep
Chickens	Hogs	Pheasants	Swine
Donkeys	Horses	Ponies	Turkeys
Ducks	Lambs	Poultry	

**FOR USE AS LIVESTOCK SPRAY**

Pest	Application Rates	Remarks
To kill horn flies house flies mosquitoes and gnats	Dilute at the rate of 1 5 to 3 fluid ounces per gallon of water (12 to 24 ml/Liter of water ) and apply to wet the hair thoroughly with particular attention to topline underline flanks withers and other infested areas	Repeat treatment at intervals of 5 to 12 days for small insect populations or as needed when flies are emerging in large numbers Do not apply more than 1 time per day
To kill stable flies horse flies and deer flies	Dilute at the rate of 2 5 to 4 fluid ounces per gallon of water (20 to 32 ml/L of water) and apply a quart per adult animal to wet the hair thoroughly with particular attention to the legs flanks barrel topline and other body areas commonly attacked by these flies	Repeat treatment each week as needed Do not apply more than 1 time per day
To kill face flies	Dilute at the rate of 2 5 fluid ounces per gallon of water (20 ml/L of water) and apply using spray which produces large wetting droplets Apply to the face of the animal in the morning before releasing to pasture Apply sufficiently to wet the face but not more than 1 5 fluid ounces (44 ml) of diluted solution per animal	Repeat daily as needed Do not apply more than 1 time per day



To kill of biting and sucking lice on cattle horses sheep goats and hogs	Dilute at the rate of 1 quart with 60 gallons of water [1.5 fluid ounces with 2 gallons (6 ml/L of water)] and spray to thoroughly wet the hair of the animal including the head and brush of the tail	Repeat treatment in 10 days to kill newly hatched lice Do not apply more than 1 time per day
To kill sheep tick or ked	Dilute at the rate of 1.5 to 3 fluid ounces per 4 gallons of water (3 to 6 ml/L of water) and thoroughly wet all portions of the body by dipping or by spraying with sufficient pressure and with a nozzle adjustment to give penetration of the wool	Treat at a rate sufficient to wet the animal Do not apply more than 1 time per day
To kill fleas and ticks on livestock and to obtain protection against reinfestation	Dilute at the rate of 9 fluid ounces per gallon (71ml/L) of water and wet the animal by dipping or spraying This product may also be used for livestock quarters	Do not spray pets For best results against fleas and ticks animal quarters and bedding should be treated Remove and destroy old bedding To reduce infestation thoroughly spray the animal's bedding and sleeping quarters Put fresh bedding in quarters after spray has dried Also treat dogs and cats [pets] with a registered flea and tick control product before allowing them to reenter treated area Do not apply more than 1 time per day

**FOR USE AS POULTRY SPRAY**

To kill poultry lice	Using a dilution of 2.5 to 4 fluid ounces of concentrate per gallon of water (20 to 32 ml/L of water) spray roosts walls and nests or cages thoroughly	It is not necessary to remove poultry from the housing unit during treatment This should be followed by spraying over the birds with a fine mist Do not apply more than 1 time per day
To kill mites on poultry and in poultry houses	Dilute at the rate of 2.5 to 4 fluid ounces per gallon (20 to 32 ml/L of water) of water and spray crevices of roost poles cracks in walls and cracks in nests where the bedbugs and mites hide	This should be followed by spraying over the birds with a fine mist Do not apply more than 1 time per day
To kill adult darkling beetle (lesser meal worm)	Dilute 2 to 5 teaspoons (10 – 25 ml) of PyGanic® Livestock and Poultry Insecticide 5.0 <sub>fl</sub> per gallon of water Using a power or proportioner type sprayer apply a uniform spray until wet at pressures of 80 to 100 pounds per square inch to surfaces such as interior walls roosting posts structural support pillars and other surfaces where adult beetles are observed One gallon of spray mixture covers 250 – 500 sq ft (23 m <sup>2</sup> – 46 m <sup>2</sup> )	For maximum effectiveness treatments should coincide with poultry house clean out and litter replacement as this activity will tend to flush beetles to vertical surfaces where they will be exposed to the spray Indoor control can be enhanced by making perimeter treatments around the outside of buildings To prevent immigrating adult beetles apply a uniform band of spray 2 feet (0.6 m) up and 1.4 feet (0.3 – 1.2 m) out from the foundation Do not contaminate food/feed or water Do not apply more than 1 time per day

**FOR USE ON PRODUCTION ANIMALS IN BARN, DAIRIES, MILKING PARLORS, MILKING ROOMS AND POULTRY HOUSES**

Product must be formulated to deliver no more than this maximum rate when used according to directions

Surface application 0.0056 lbs ai/1000 sq ft or 18 fl oz of PyGanic Crop Protection EC 5.0<sub>fl</sub>/1000 sq ft

Crack/crevice or spot surface – 0.056 lbs ai / 1 000 sq ft or 18 fl oz of PyGanic Crop Protection EC 5.0<sub>fl</sub> / 100 sq ft

Space sprays when non domestic animals are absent 0.0033lbs ai / 1 000 cubic feet of space or 1 fl oz or 1 fl oz of PyGanic Crop Protection EC 5.0<sub>fl</sub> / 1 000 cubic feet of space

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Space sprays when non domestic animals are present 0 0008 lb ai/ 1000 cubic feet of space or 0 26 fl oz of PyGanic Crop Protection EC 5 0<sub>II</sub> / 1 000 cubic feet of space

To kill the following flying insects Fruit Flies Gnats and Small Flying Moths dilute at the rate of 2 5 fluid ounces per gallon (19 82 ml/L) of water Apply as a fog or fine mist (at approximately 2 fluid ounces per 1000 cubic feet of space (2 08 ml/m<sup>3</sup>) directing the nozzle for maximum coverage and above livestock and poultry toward the ceiling and upper corners of the area being treated For best results close doors and windows before spraying and keep them closed for 10 to 15 minutes Applicator should vacate the treated area and ventilate it prior to returning Sweep up and destroy fallen insects

DIRECTIONS FOR USE IN COMMERCIAL ANIMAL PREMISE AUTOMATIC MISTING SYSTEMS

When using this product installers and service technicians must comply with the license certification or registration requirements of the state(s) tribe(s) or local authority(ies) where they are installed

Do not apply when food feed and or water is present

When applying via a remote activation device do not apply when people and pets are present If possible when applying via automatic timer set the timing for application when people and pets are unlikely to be present

Direct nozzles to spray towards the target area and away from areas where people are typically present Do not use in an evaporative cooling system Do not use in misters located within 3 feet of air vents air conditioner units or windows

If used in a system with a reservoir tank for the end use dilution the system reservoir tank must be locked Securely attach the end use pesticide label and a dilution statement to the system reservoir tank in a weather protected area or plastic sleeve The dilution statement must be phrased as follows this container holds \_\_\_ parts PyGanic® Crop Protection EC 5 0<sub>II</sub> to \_\_\_ parts water

This product must only be used in systems that have been calibrated to apply no more than the maximum application rate of 0008 lbs a i / 1 000 cubic feet space sprays when non domestic animals are present

**STORAGE AND DISPOSAL**

Do not contaminate water food or feed by storage or disposal

PESTICIDE STORAGE

Keep this product in its tightly closed original container when not in use Store in a cool dry (preferably locked) area that is inaccessible to children and animals

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility

CONTAINER DISPOSAL

Nonrefillable container Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying

[For containers with capacities equal to or less than 5 Gallons (18 9 L)]

Triple Rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container ¼ full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times Offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities

Pressure rinse as follows [for containers greater than 5 Gallons (18 9L) too large to shake] Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds Drain for 10 seconds after the flow begins to drip Offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities

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Manufactured by



8810 Tenth Avenue North  
Minneapolis MN 55427

EPA Reg No 1021 1772

EPA Est No 1021 MN 2

Net Contents \_\_\_\_\_



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PyGanic® Crop Protection EC 5 0<sub>II</sub> Master Label

[Alternate Brand Name PyGanic Gardening EC 5 0<sub>II</sub>]

Sub-Label B For Organic Gardening  
For Residential Use

EPA REG No 1021 1772  
EPA EST No 1021 MN 2

# PyGanic® Gardening 5.0 II



FOR ORGANIC GARDENING



[FOR USE ON NON FOOD ORNAMENTALS  
(TREES SHRUBS AND BEDDING PLANTS)]  
[FOR USE IN RESIDENTIAL GARDENS]  
[For use in Organic Gardening]

[Flushing Action]  
[Quick Knockdown]  
[Effective]  
[Fast acting]

**ACTIVE INGREDIENT**

Pyrethrins *a botanical insecticide*

5 00%

**OTHER INGREDIENTS**

95 00%

100 00%

MGK and PYGANIC® are registered trademarks of McLaughlin Gormley King Company All other marks are property of their respective holders

## KEEP OUT OF REACH OF CHILDREN CAUTION PRECAUCIÓN

**Si usted no entiende la etiqueta busque a alguien para que se la explique a usted en detalle  
(If you do not understand the label find someone to explain it to you in detail)**

### FIRST AID

IF SWALLOWED	Call poison control center or doctor immediately for treatment advice Have person sip a glass of water if able to swallow Do not induce vomiting unless told to do so by the poison control center or doctor Do not give anything by mouth to an unconscious person
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
IF ON SKIN OR CLOTHING	Take off contaminated clothing Rinse skin immediately with plenty of water for 15 20 minutes 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 You may also contact 1 888 740 8712 for emergency medical treatment information	

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

Harmful if absorbed through skin Harmful if swallowed Causes moderate eye irritation Wash hands thoroughly with soap and water after handling and before eating drinking chewing gum using tobacco or the using toilet Avoid contact with skin eyes or clothing Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals Wear long sleeved shirt and long pants socks shoes and chemical resistant gloves

### ENVIRONMENTAL HAZARDS

This product is toxic to aquatic organisms including fish and invertebrates Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas This product may contaminate water through runoff This product has a potential for runoff for several weeks after application Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area Do not apply directly to water to areas where surface water is present or to intertidal areas below the mean high water mark Do not contaminate water when disposing of equipment wash waters or rinsate

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DIRECTIONS FOR USE

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

Do not make applications during rain Do not allow adults children or pets to enter the treated area until sprays have dried Do not wet plants to point of runoff

TO KILL THE FOLLOWING INSECTS

- |  |                                     |                           |                                  |
|--|-------------------------------------|---------------------------|----------------------------------|
| 12 spotted Cucumber Beetles            | Cross striped Cabbageworms          | Heliothis spp             | Rice Weevils                     |
| Angoumois Grain Moths                  | Cucumber Beetles                    | Hornworms                 | Saltmarsh caterpillars           |
| Ants (excluding fire and Pharaoh ants) | Dark Mealworms                      | House Flies               | Saw Toothed Grain Beetles        |
| Aphids                                 | Darkling Beetles (lesser meal worm) | Imported Cabbageworms     | Scales                           |
| Apple Maggots                          | Diamondback Larvae and Moths        | Indian Meal Moths         | Sharpshooters                    |
| Armored Scales                         | Dried Fruit Beetles                 | Japanese Beetles          | Shore flies                      |
| Armyworms                              | Drugstore Beetles                   | Katydid                   | Shot hole borers                 |
| Artichoke Plume Moths                  | Earwigs                             | Lace Bugs                 | Silverfish                       |
| Asparagus Beetles                      | Eastern Tent Caterpillars           | Leaf footed plant bugs    | Skippers                         |
| Bagworms                               | Elm Leaf Beetles                    | Leafhoppers               | Small Flying Moths               |
| Bean Beetles                           | Eriophyd Mites                      | Leafminers                | Soft Scales                      |
| Beet Armyworms                         | European Pine Tip Moths             | Leafrollers               | Southern chinch bugs             |
| Beetles                                | Fire worms                          | Leaftiers                 | Sow bugs                         |
| Bermudagrass Mirids                    | Flea Beetles                        | Loopers                   | Spider Beetles                   |
| Billbugs                               | Forest Tent Caterpillars            | Lygus                     | Springtails                      |
| Blister Beetles                        | Fruit Flies                         | Maggots                   | Squash bugs                      |
| Blow Flies                             | Fruit tree Leaf rollers             | Mealy Bugs                | Stable Flies                     |
| Boll Weevils                           | Fruitworms                          | Mediterranean Flour Moths | Stink Bugs                       |
| Boxelder Bugs                          | Fungus Gnats                        | Mexican Bean Beetles      | Tarnished Plant Bugs             |
| Branch and Twig Borers                 | Garden Symphylan                    | Midges                    | Thrips                           |
| Cabbage Loopers                        | Glassy Winged Sharpshooters         | Millipedes                | Tobacco Moths                    |
| Cabbage Maggots                        | Gnats                               | Mites                     | Tomato budworms                  |
| Cadellles                              | Grain Mites                         | Mole crickets             | Tomato bugs                      |
| Cankerworms                            | Grape Leaf Skeletonizers            | Moths                     | Tomato Fruit worms               |
| Carrot Weevils                         | Grape Leafhoppers                   | Mushroom Flies            | Tomato Hornworms                 |
| Caterpillars                           | Grape Mealy bugs                    | Navel Orangeworms         | Tomato pinworms                  |
| Chalcids                               | Grasshoppers                        | Olive Fruit Flies         | Tomato Russet Mite               |
| Cheese Skippers                        | Green bugs                          | Onion Maggots             | Tussock moths                    |
| Cherry Fruit Flies                     | Green Fruit Worms                   | Orange Tortrix            | Vine mealy bugs                  |
| Cigarette Beetles                      | Green Peach Aphids                  | Pacific flatheaded borers | Vinegar Flies                    |
| Clover Mites                           | Greenhouse Thrips                   | Pear Psyllids             | Webworms                         |
| Clover Weevils                         | Gypsy Moths (adults & larvae)       | Pepper Weevils            | Weevils                          |
| Cockroaches                            | Harlequin Bugs                      | Pink bollworms            | Western Yellow striped armyworms |
| Codling Moths                          |                                     | Potato Leafhoppers        | Whiteflies                       |
| Colorado Potato Beetles                |                                     | Potato Tuberworms         | Yellow Mealworms                 |
| Confused Flour Beetles                 |                                     | Proba bugs                |                                  |
| Corn Earworms                          |                                     | Psyllids                  |                                  |
| Crane Flies                            |                                     | Red Flour Beetles         |                                  |
| Crickets                               |                                     |                           |                                  |

GENERAL PRECAUTIONS AND RESTRICTIONS

- Do not apply directly to or near water storm drains or drainage ditches
- Do not apply when windy
- To prevent product run off do not over water the treated area(s) or apply when heavy rain is expected Rinse applicator over lawn or garden area only
- Do not apply this product in a way that will contact workers or other persons either directly or through drift
- Do not make applications during the rain
- Do not wet plants to the point of runoff
- Not for use in outdoor residential misting systems
- Do not allow adults children or pets to enter the treated area until sprays have dried

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- To avoid possible harm to honey bees it is advisable to apply in the early morning or late evening hours
- Not for indoor use

Pyrethrins degrade rapidly in sunlight To ensure the best performance coverage is key Use spray equipment that will provide the best coverage and direct contact with as many insects as possible

**IMPORTANT NOTE** Plant safety is an important consideration when using insecticides However it is not possible to evaluate the phytotoxicity of PyGanic® Gardening EC 5 0<sub>II</sub> on numerous plant varieties that may react differently to insecticides in different growth stages or under varying environmental conditions Before making widespread applications of PyGanic® Gardening EC 5 0<sub>II</sub> or tank mix combinations treat a limited number of plants and observe for phytotoxicity over a 10 day period

**HOME GARDEN APPLICATIONS**

**Maximum application rates**

Garden and Orchard—0 05 lbs ai/acre or 0 0012 lbs ai / 1 000 sq ft

Do not apply more than 10 times per season

Do not reapply within 3 days except under extreme pest pressure

In case of extreme pest pressure do not reapply within 24 hours

Dilute ¼ to ½ fluid ounces of PyGanic® Gardening EC 5 0<sub>II</sub> per gallon of water (2 to 4 ml/ Lof water) For larger gardens apply 4 5 to 17 fluid ounces of PyGanic® Gardening EC 5 0<sub>II</sub> per acre (33 ml to 1 331 ml/Ha ) or by ground equipment in sufficient water for thorough coverage Mix only enough for immediate use Apply diluted solution with a sprayer including compressed air sprayers or pump driven sprayers Spraying should begin when insects first appear Do not wait until plants are heavily infested Repeat as needed but not more than once daily

**ROOT AND TUBER VEGETABLES** Including Arracacha Arrowroot Purple Arrowroot Japanese Artichoke Jerusalem Artichoke Garden Beets Sugar Beets Edible Burdock Edible Canna Carrots Cassava (bitter or sweet) Celeriac (celery root) Chayote (root) Chervil (turnip rooted) Chicory Chufa Dasheen Ginger Ginseng Horseradish Leren Parsley (turnip rooted) Parsnip Potato Radish Japanese Radish (Daikon) Rutabaga Salsify Black Salsify Spanish Salsify Sweet Potato Tanier Turmeric Turnip Yam (true) Yam Bean

**LEAVES OF ROOT AND TUBER VEGETABLES** Including Garden Beet Sugar Beet Edible Burdock Carrot Cassava (bitter or sweet) Celeriac (celery root) Chervil (Turnip Rooted) Chicory Dasheen (Taro) Parsnip Radish Japanese Radish (Daikon) Rutabaga Black Salsify Sweet Potato Tanier Turnip Yam (true)

**BULB VEGETABLES** Including Garlic Great headed Garlic Leek Onion (bulb and green) Welch Shallot

**LEAFY VEGETABLES** Including Amaranth (Leafy Amaranth Chinese Spinach Tampala) Arugula Cardoon Celery Chinese Celery Celtuce Chervil Corn Salad Chrysanthemum (edible leaved) Chrysanthemum (garland) Cress (garden water) Upland Cress (yellow rocket winter cress) Dandelion Dock (sorrel) Endive (escarole) Fennel (Florence) Lettuce (head and leafy) Orach Parsley Purslane (garden & winter) Radicchio Rhubarb Spinach Fine Spinach (Me abar Ceylon) Spinach (New Zealand) Swiss Chard

**BRASSICA (COLE) LEAFY VEGETABLES** Including Broccoli Chinese Broccoli (Gai Lan) Broccoli raab (Rapini) Brussel Sprouts Cabbage Chinese Cabbage (Bok Choy) Chinese Cabbage (Napa) Chinese Mustard Cabbage (Gai Choy) Cauliflower Cavallo broccoli Collards Kale Kohlrabi Mizuna Mustard Greens Mustard Spinach Rape Greens

**LEGUME VEGETABLES (SUCCULENT OR DRIED)** Including Adzuki Beans Field Beans Kidney Beans Lima Beans Moth Beans Mung Beans Navy Beans Pinto Beans Rice Beans Runner Beans Snap Beans Tepary Beans Urd Beans Wax Beans Asparagus Beans Black eyed Peas Catjang Chinese Longbeans Cowpeas Crowder Peas Southern Peas Yard longbeans Broad Beans (Fava Beans) Chick Peas (Garbanzo Beans) Guar Jackbean (Sword Bean) Lablab Bean (Hyacinth Bean) Lentils Peas (Garden Peas Field Peas Sugar Snap Peas English Pea Snow Pea) Fūfōfō Peas Soybeans Sweet Lupin Beans White Lupin Beans White Sweet Lupin Sword Bean

**FOLIAGE OF LEGUME VEGETABLES** Including Plant part of any legume vegetable included in the legume vegetable group that will be used as animal feed including any variety of Beans Field Peas Soybeans

**FRUITING VEGETABLES** Including Eggplant Ground Cherry Okra Pepinos Pepper (Bell Pepper Chili Peppers Cooking Peppers Pimentos Sweet Peppers) Tomatillo Tomatoes

CUCURBIT VEGETABLES Including Balsam Apple Balsam Pear (Bitter Melon) Chayote (fruit) Chinese Waxgourd (Chinese preserving melon) Chinese Cucumber Citron Melon Cucumber Gherkin Edible Gourds Melons (including hybrids Cantaloupe Casaba Golden Perhsaw Melon Crenshaw Honeydew Melons Honey Balls Mango Melon Muskmelon Persian Melon Pineapple Melon Santa Claus Melon Snake Melon) Pumpkin Squash (summer & winter) Watermelon (including hybrids)

CITRUS FRUITS Including Calamondin Citrus Citron Citrus Hybrids Grapefruit Kumquats Lemons Limes Mandarin (Tangerine) Orange (sweet & sour) Pummelo Satsuma Mandarin (Citrus spp Includes Chironja Tangelos Tangors)

POME FRUITS Including Apple Crabapple Loquat Mayhaw Pear Oriental Pear Quince

STONE FRUITS Including Apricot Cherry (sweet & sour) Nectarine Peach Plum Prune Chickasaw Plum Damson Plum Japanese Plum Plumcot

SMALL FRUITS AND BERRIES Including Blackberry Blueberry Cranberry Currant Dewberry Elderberry Gooseberry Grape Huckleberry Loganberry Olallie Berry Raspberry (black & red) Strawberry Youngberry

TREE NUTS Including Almond Beech Nut Brazil Nut Butternut Cashew Chestnut Chinquapin Filbert (hazel nut) Hickory nut Macadamia Nut (Bush Nut) Pecan Pistachio Walnut Black and English (Persian)

ORIENTAL VEGETABLES Including Acerola Ateemoya Balsam pear (bitter melon) Carambola Japanese Artichoke Chinese Broccoli (Gai Lan) Chinese Cabbage (Bok Choy Napa) Chinese Mustard Cabbage (Gai Choy) Dasheen Ginger Ginseng Chinese Longbeans Mung Beans Citron Melon Japanese Radish (Daikon) Chinese Spinach Chinese Waxgourd Cilantro Citron Melon Rambutan Water Chestnut

SUBTROPICAL FRUITS Including Avocado Banana Carob Barbados Cherry Cherimoya Dates Durian (Jackfruit) Feijoa Figs Guava Kiwifruit Lychee Mando Papaya Passion Fruit Persimmon Pineapple Pomegranate

HERBS AND SPICES Including Allspice Angelica Anise (anise seed) Anise [star] Annatto (seed) Balm (lemon balm) Basil Borage Burnet Camomile Caper buds Caraway Caraway [black] Cardamom Cassia bark Cassia buds Catnip Celery seed Chervil (dried) Chicory Chive Chive [Chinese] Cinnamon Clary Clove buds Coriander (cilantro or Chinese parsley) (leaf) Coriander (cilantro) (seed) Costmary Culantro (leaf) Culantro (seed) Cumin Curry (leaf) Dill (dillweed) Dill (seed) Fennel (common) Fennel [Florence] (seed) Fenugreek Grains of paradise Horehound Hyssop Juniper berry Lavender Lemongrass Lovage (leaf) Lovage (seed) Mace Marigold Marjoram (includes sweet or annual marjoram wild marjoram or oregano and pot marjoram) Mustard (seed) Nasturtium Nutmeg Oregano Mint Paprika Parsley (dried) Pennyroyal Pepper [black] Pepper [white] Poppy (seed) Rosemary Rue Saffron Sage Savory [summer and winter] Sweet bay (bay leaf) Tansy Tarragon Thyme Vanilla Wintergreen Woodruff Wormwood

ADDITIONAL PLANTS Including Artichoke Asparagus Avocado Coffee Cotton Hops Jojoba Mushroom Okra Olives Peanuts Pineapple Rice Safflowers Sesame Sugar Cane Sunflower Tea

FOR USE ON ORNAMENTAL PLANTS GROWN IN GARDENS Including African Violet Ageratum Aster Azalea Begonia Calceolaria Calendula Calla Camellia Carnation Ceanothus Cineraria Chrysanthemum Coleus Cyclamen Cypress Daffodil Dahlia Delphinium Dogwood Elm Eucalyptus Fern Ficus Foliage Plants Fuchsia Gardenia Geranium Gladiolus Gloxinia Gypsophila Holly Hyacinth Hydrangea Iris Lily Maidenhair Fern Marigold Narcissus Palm Pansy Peony Pelargonium Petunia Philodendron Phlox Pine Pyracantha Rhododendron Roses Rubber Plant Snapdragon Sweet Pea Tulips Viburnum Wandering Jew Yew Zinnia and Andromeda Arborvitae Ash Beech Birch Boxwood Cotoneaster Crabapple Euonymus Fir Firethorn Forsythia Hawthorn Hemlock Hickory Honey Locust Horse Chestnut Juniper Larch Laurel Lilac Linden Mimosa Myrtle Oak Pine Privet Tulip Tree Viburnum Willow



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### STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

#### PESTICIDE STORAGE

Keep this product in its tightly closed original container when not in use Store in a cool dry (preferably locked) area that is inaccessible to children and animals

#### PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility

#### CONTAINER DISPOSAL

Nonrefillable container Do not reuse or refill this container

##### **If empty**

Offer for recycling if available

##### **If partly filled**

Call your local solid waste agency for disposal instructions Never place unused product down any indoor or outdoor drain

**(Place on containers for Residential Use)**

Manufactured by



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