

1021-1511

8/12/2011

10 of 17

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460-0001



OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 12, 2011

Mr. Thomas Lennan
McLaughlin Gormley King Company
8810 Tenth Ave North
Minneapolis, MN 55427-4319

Subject: Amended Reregistration Label
Product Name: MGK® PBO 8-E
EPA Registration Number: 1021-1511
EPA Decision Number(s): 410874

Dear Mr. Lennan:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the reregistration of the above referenced product in connection with the Piperonyl Butoxide RED, and has concluded that your submission is acceptable.

NOTE: This product is not being reregistered under sections 3(c)5 and 4(g) of FIFRA at this time.

Please note that the record for this product currently contains the Confidential Statements of Formulation (CSFs) listed below. Any previously dated CSFs are superseded.

- Basic CSF, dated (9/16/2008)
- Alternate CSF dated (8/16/2010)


A copy of your label stamped "Accepted" is enclosed along with copies of the acute toxicity and product chemistry reviews completed for the subject product. Products shipped after 12 months from the date of this amendment or the next printing of the label whichever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

20817

If you have any questions about this letter, please contact Linda Arrington at (703) 305-6249 or via e-mail at arrington.linda@epa.gov.

Sincerely,



 Richard J. Gebken
Product Manager (10)
Insecticide Branch

Registration Division (7504P)

Enclosures: *Label stamped "Accepted," dated 8/12/2011*
Acute Toxicity Review, dated 4/28/2010
Product Chemistry Review, dated 9/15/2010

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MGK[®]

McLaughlin
GORMLEY
KING COMPANY

A C C E P T E D
AUG 12 2011
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1021-1511

MGK[®] PBO 8-E

8810 Tenth Avenue N. / Minneapolis, Minnesota 55427-4319 U.S.A. - Telephone (763) 544-0341

- For use as a synergist in a tank mix to aid in improving the control of insects.
- Aids in inhibiting mixed function oxidative resistance in insects.
- Raises level of control by increasing insect susceptibility to insecticides
- For use in livestock and poultry areas
- For use in Food Areas of Food Handling Establishments

ACTIVE INGREDIENT:

* Piperonyl butoxide	91.30%
OTHER INGREDIENTS	8.70%
	100.00%

*(butylcarbityl) (6-propylpiperonyl) ether and related compounds.

MGK[®] - Registered trademark of McLaughlin Gormley King Company

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:	<ul style="list-style-type: none"> ▪ 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 a poison control center or a doctor. ▪ Do not give anything by mouth to an unconscious person.
IF IN EYES:	<ul style="list-style-type: none"> ▪ 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 eyes. ▪ Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> ▪ 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.
IF INHALED:	<ul style="list-style-type: none"> ▪ Move person to fresh air. ▪ If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. ▪ Call a poison control center or doctor for further treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), you may call 1-888-740-8712.</p>	

Net Contents _____

Manufactured by:

Mc LAUGHLIN GORMLEY KING COMPANY
8810 Tenth Avenue North
Minneapolis, MN 55427

EPA Reg. No. 1021-1511

EPA Est. No. 1021-MN-2

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin eyes or clothing. Causes moderate eye irritation. Wear goggles or face shields. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of barrier laminate, nitrile or neoprene rubber, or viton. If you want more options, follow the instruction for category E on an EPA chemical -resistance category section chart.

Mixers, loaders, applicators and other handlers must wear the following: long-sleeved shirt and long pants; chemical-resistant gloves such as Barrier Laminate, Neoprene Rubber, Nitrile Rubber, or Viton; and shoes and socks.

In addition to the above PPE, mixers and loaders supporting aerial applications to forests and/or applicators using a high pressure handwand in an enclosed area must wear at least a NIOSH-approved respirator with:

- a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C; or
- any N, R, P, or HE filter.

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 N, R, P or HE filter.

See engineering controls for additional requirements.

User Safety Requirements:

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep 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.

Engineering Controls:

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

USER SAFETY RECOMMENDATIONS

User should:

- Wash hands with plenty of soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. 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.

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.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protection 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 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 responsible for pesticide regulation.

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 the Worker Protection Standard and that involves contact with anything that has been treated, such as soil or water, is:

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

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 sprays have dried.

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

Except when applying directly on animals or animal premises, do not apply this product in a way that will contact workers or other persons either directly or through drift.

Except when applying directly on animal or animal premises, only protected handlers may be in the area during application.

USE PRECAUTIONS

This product is an emulsifiable concentrate for use in a tank mix with insecticides and acaricides to aid in improving the control of insects and mites. MGK® PBO-8E is a synergist that aids in blocking oxidative resistance that may develop in insects and mites and has no insecticidal properties of its own.

Do not apply this product in a way that will contact adults, children, or pets, either directly or indirectly through drift. Only protected handlers may be in the area during application.

Do not wet plants to the point of runoff or drip.

Do not use treated article before it is dry.

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 remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors, and/or mists have dispersed.

Application Types:

MGK® PBO-8E may be applied via ground application units, hand-held sprayers, power sprayers, Foggers and ULV applicators and chemigation.

Not for use in outdoor residential misting systems.

Do not use in aircraft cabins.

For Use on Crops

MGK® PBO 8-E may be used in a tank mix with an insecticide or acaricide on GROWING CROPS (OUTDOORS AND IN GREENHOUSES), as well as in insecticide applications to Dormant Crops.

SPRAY DRIFT MANAGEMENT FOR AGRICULTURE 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 (16 km/h) 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 (30.5m) 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:

During ground applications do not release spray at a height greater than 4 feet (1.2 m) above the ground or crop canopy.

Additional requirements for airblast applications:

During airblast applications direct sprays into the canopy. Turn off outward pointing nozzles at row ends and when spraying outer rows.

Use is allowed on listed crops whether grown for food, forage or seed production.

ROOT AND TUBER VEGETABLES: Arracacha, Arrowroot, Purple Arrowroot, Japanese Artichoke, Jerusalem Artichoke, Beet, Sugar Beet, Edible Burdock, Carrot, Cassava (bitter or sweet), Celeriac (celery root), Chervil (turnip rooted), Chicory, Dasheen (taro), Ginger, Ginseng, Horseradish, Leren, Parsley (turnip rooted), Parsnip, Potato, Radish, Japanese Radish (Daikon), Rutabaga, Salsify (Oyster Plant), Black Salsify, Spanish Salsify, Sweet Potato, Tanier (Cocoyam), Turmeric, Turnip, True Yam, Bean Yam.

LEAVES OF ROOT AND TUBER VEGETABLES: Beet, Sugar Beet, Edible Burdock, Carrot, Cassava (bitter or sweet), Celeriac, Chervil (Turnip Rooted), Chicory, Dasheen, Parsnip, Radish, Japanese Radish (Daikon), Rutabaga, Black Salsify, Sweet Potato, Tanier, Turnip, True Yam.

BULB VEGETABLES: (Allium spp.): Including (but not limited to) Garlic, Great-headed Garlic, Leek, Onion (dry bulb and green), Spring Onion or Scallions, Welch Onion, Shallot.

LEAFY VEGETABLES: Amaranth (Leafy Amaranth, Chinese Spinach, Tampala), Arrugula (Roquette), Celery, Celtuce, Chervil, Corn Salad, Chrysanthemum (edible leaved), Chrysanthemum (gardland), Cress (garden), Upland Cress (yellow rockets, winter cress), Dandelion, Dock (sorrel), Endive, Escarole, Fennel (Florence), Lettuce (Head and Leaf), Orach, Parsley, Purslane (garden & winter), Rhubarb, Romaine, Spinach, Fine Spinach (Malabar, Ceylon), Spinach (New Zealand), Swiss Chard.

BRASSICA (COLE) LEAFY VEGETABLES: Broccoli, Broccoflower, Cavalo Broccolo, Chinese Broccoli (Gai Lan), Broccoli raab (Rapini), Brussels Sprouts, Cabbage, Chinese Cabbage (Bok Choy), Chinese Cabbage (Napa), Chinese Mustard Cabbage (Gai Choy), Cauliflower, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens.

LEGUME VEGETABLES (SUCCULENT OR DRIED): Adzuki Beans, Asparagus Beans, Black-eyed Peas, Broad Beans (Fava Beans), Catjang, Chick Peas (Garbanzo Beans), Chinese Longbeans, Cowpeas, Crowder Peas, Field Beans, Guar, Jackbeans, Sword Beans, Kidney Beans, Lablab Beans (Hyacinth Beans), Lima Beans, Lentils, Moth Beans, Mung Beans, Navy Beans, Peas (Dwarf, Edible Pod, English, Garden Green,, Field , Snowpeas, Sugar Snap Peas), Pigeon Peas, Pinto Beans, Rice Beans, Runner Beans, Snap Beans, Southern Peas, Soybeans, Grain Lupin, Sweet Lupin, White Lupin, Pole Beans, Tepary Beans, Urđ Beans, Wax Beans, Yardlong Beans.

FOLIAGE OF LEGUME VEGETABLES: 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.

FRUITING VEGETABLES: Eggplant, Ground Cherry, Pepinos, Peppers (includes Bell Peppers, Chili Peppers, Cooking Peppers, Pimentos, Sweet Peppers), Tomatillo, Tomatoes.

CUCURBIT VEGETABLES: Balsam Pear (Bitter Melon), Chinese Waxgourd (Chinese Preserving Melon), Citron Melon, Cucumber, Gherkin, Edible Gourds, Melons (including hybrids, Ananas, Canary, Cantaloupe, Casaba, Charentais, Crenshaw, Galia, Honeydew Melons, Honey Balls, Mango Melon, Muskmelon, Persian Melon, Piel de Sapo), Pumpkin, Squash (summer & winter), Western Shipper Melon, Watermelon (including hybrids, seeded and seedless).

CITRUS FRUITS: Calamondin, Citrus Citron, Citrus Hybrids, Grapefruit, Kumquats, Lemons, Limes, Mandarin (Tangerine), Orange (sweet & sour), Pummelo, Satsuma Mandarin.

POME FRUITS: Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental Pear, Quince.

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

SMALL FRUITS AND BERRIES: Bingleberry, Blackberry, Blueberry, Cranberry, Currant, Dewberry, Elderberry, Gooseberry, Grape, Huckleberry, Loganberry, Lowberries, Olallie Berry, Black Raspberry, Red Raspberry, Strawberry, Youngberry.

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

ORIENTAL VEGETABLES: Japanese Artichoke, Chinese Broccoli (Gai Lan), Chinese Cabbage (Bok Choy), Chinese Mustard Cabbage (Gai Choy), Dasheen, Ginger, Ginseng, Chinese Longbeans, Mung Beans, Citron Melon, Balsam Pear (Bitter Melon), Japanese Radish (Daikon), Chinese Spinach, Chinese Waxgourd.

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

ADDITIONAL CROPS: Including Artichoke, Asparagus, Avocado, Coffee, Cotton, Hemp, Hops, Jojoba, Mushroom, Olives, Okra, Peanuts, Safflowers, Sesame, Sugar Cane, Sunflowers, Tea, Tobacco.

CEREAL GRAINS: 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: 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: Any grass (Gramineal family, (green or cured), except sugarcane and those listed in the cereal grains group) that will be fed to or grazed by livestock, all pasture and range grasses and grasses grown for hay or silage, Bermuda Grass, Bluegrass, Bromegrass, Fescue Annual Ryegrass, Festulium, Hybrid Ryegrass, Italian Ryegrass, Meadow Fescue, Orchard Grass, Sudangrass, Sorghum-sudan, Tall Fescue, Timothy, Wheat Hay, Turfgrass Varieties, Bentgrass, Kentucky Bluegrass, Specialty Grasses.

NON-GRASS ANIMAL FEEDS: Alfalfa, Velvet Bean, Clover, Kudzu, Lespedeza, Lupin, Sainfoin, Trefoil, Crown Vetch, and Milk Vetch.

HERBS AND SPICES: Allspice, Angelica, Anise (Anise seed), Annatto, Balm, Basil, Borage, Burnet, Camomile, Caper Buds, Caraway, Black Caraway, Cardamon, Cassia bark, Cassia buds, Catnip, Celery Seed, Chervil dried, Chives, Chinese Chive, Clary, Clove Buds, Coriander (cilantro or Chinese parsley leaf), Coriander (cilantro seed), Costmary, Culantro, Cumin, Curry Leaf, Dill (dill weed), Dill (seed), Fennel (Italian and Sweet), Fenugreek, Grains of Paradise, Horehound, Hyssop, Juniper berry, Lavender, Lemongrass, Lovage (leaf & seed), Mace, Marigold, Sweet Marjoram, Wild Marjoram, Mustard (seed), Nasturtium, Nutmeg, Parsley, Oregano, Mint, Paprika, Parsley, Pennyroyal, Pepper (black & white), Poppy seed, Rosemary, Rue, Saffron, Sage, Savory, Summer and Winter Savory, Sweet Bay (Bay Leaf), Tansy, Tarragon, Thyme, Vanilla, Watercress, Wintergreen, Woodruff, Wormwood.

OILSEED CROPS: Canola, Crambe, Rapeseed, Flax, Safflowers, Sesame, Soybeans, Sunflowers.

ORNAMENTALS: African Violet, Ageratum, Aster, Azalea, Begonia, Cacti, Calceolaria, Calendula, Calla, Camellia, Carnation, Ceanothus, Christmas Trees, Conifer Plantations, Conifer Seed Orchards, Cineraria, Chrysanthemum, Coleus, Cyclamen, Cypress, Daffodil, Dahlia, Delphinium, Dogwood, Fern, Ficus, Foliage Plants, Forest Tree Nurseries, Palm and Tropical Trees and Nurseries, Fuschia, Gardenia, Geranium, Gladiolus, Gloxinia, Gypsophila, Holly, Hyacinth, Hydrangea, Iris, Lilies, Maidenhair Fern, Marigold, Juniper, Marigold, Narcissus, Palm, Pansy, Pelargonium, Peony, Petunia, Philodendron, Phlox, Pine, Pyracantha, Rhododendron, Roses, Rubber Plant, Snapdragon, Stock, Sweet Pea, Tulips, Viburnum, Wandering Jew, Yew, Zinnia and Andromeda, Arborvitae, Ash, Beech, Birch, Boxwood, Cotoneaster, Crabapple, Dogwood, Elm, Euonymus, Fir, Firethorn, Forsythia, Hawthorn, Hemlock, Hickory, Holly, Honey Locust, Horse Chestnut, Juniper, Larch, Laurel, Lilac, Linden, Mimosa (Silk Tree), Myrtle, Oak, Pine, Privet, Tulip Tree, Willow.

CROP USE RATES and RESTRICTIONS:

Food Crops grown outdoors or in greenhouses in agricultural settings		
	Maximum Use Rate	Use Restrictions
Field and Orchard Crops	8.0 fl. oz. per acre (641.5 ml/Ha) (0.5 lbs ai/ acre) (567 g/Ha)	<ul style="list-style-type: none"> 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.
	or 0.20 fl. oz. per 1000 sq. ft. (0.064 ml/m ²)	
Hydroponically grown crops	1.0 ppm ai in water	<ul style="list-style-type: none"> Do not apply to cotton within 14

Greenhouse Space Sprays	0.22 fl. oz. per 10,000 cubic feet (0.022 ml/m ³)	days of seed harvest. • A 10-day water hold is required for all pyrethrins applications when rice fields are flooded.
Greenhouse Surface Sprays	0.20 fl. oz. per 1000 sq. ft. (0.064 ml/m ²)	
Greenhouse Grown Ornamental, Flowering and Foliage Plants		
	Maximum Use Rate	Use Restrictions
Surface Applications	0.58 fl. oz per 1000 sq.ft. (0.19 ml/m ²) or 24.0 fl. oz. per acre (1,775 ml/Ha)	Do not apply more than 1 time per day
Space Sprays	0.67 fl. oz. per 10000 cubic feet (0.07 ml/Ha)	
Forestry	20 fl. oz. per acre (1,479 ml/Ha)	
Sod Farms	16 fl. oz. per acre (1,182 ml/Ha)	

Observing the directions and volume of water on the insecticide label, tank-mix at a rate of 2 to 8 fluid ounces of MGK® PBO-8E per acre (147 ml to 591 ml/Ha). 8 fluid ounces (237 ml) (1/2 pint (0.36L)) will provide 0.5 lb (227 g) of MGK® PBO-8E's active ingredient. Prior to tank-mix, a compatibility test should be done using the proper proportions of chemicals and water to ensure the physical compatibility of the mixture. The tank mix application should conform to accepted use precautions and directions for both products.

Mix MGK® PBO 8-E with an insecticide based on the amount of active ingredient. Most insecticides are synergized at the ratio range of 1 to 10 parts MGK® PBO 8-E's active ingredient to 1 part of an insecticide's active ingredient.

One fluid ounce of MGK® PBO 8-E contains 0.0625 pounds (28.34 g) of active ingredient. To calculate the Fluid Ounces of MGK® PBO 8-E to use with a given insecticide, first calculate the amount of active ingredient of the insecticide to be used (in pounds), multiply that amount times the ratio of MGK® PBO 8-E desired (between 1 and 10), then divide that amount by 0.0625.

$$\text{Equation: (lbs insecticide a.i.} \times \text{desired ratio of MGK® PBO 8-E)} / 0.0625 = \text{Fluid Ounces of MGK® PBO 8-E required}$$

In absence of specific data or experience on growing crops and ornamentals (outdoors, in greenhouses or indoors), it is recommended that tank-mixes with MGK® PBO 8-E be tested for any phytotoxicity on a sample of the crop or growing plants prior to use.

ALWAYS READ AND FOLLOW LABEL DIRECTIONS OF ALL PRODUCTS USED IN A TANKMIX. DO NOT MIX MGK® PBO 8-E WITH ANY PRODUCT HAVING LABEL PROHIBITIONS AGAINST SUCH MIXING.

ALWAYS FOLLOW THE MOST RESTRICTIVE LABEL INSTRUCTIONS AND PRECAUTIONS OF ALL PRODUCTS IN A TANKMIX.

Crop Tank Mix Rate Chart:

THE PURPOSE OF THIS CHART IS SOLELY TO RECOMMEND THE RATE OF MGK® PBO 8-E PER VOLUME OF TANKMIX PARTNER. THIS IS NOT A RECOMMENDATION OF TANK-MIX PARTNER USE RATES. PLEASE REFER TO THE MOST CURRENT TANK-MIX PARTNER LABEL TO DETERMINE THE RATE OF THAT SPECIFIC PRODUCT THAT IS APPROPRIATE FOR YOUR APPLICATION.

Tank mix partner Chemical name Example Brand name	IF Tank Mix Partner Rate per acre is:	THEN MGK® PBO 8-E Rate per acre is:	
		Recommended	Maximum
Abamectin 2% a.i. Agri-mek® 0.15 EC	5 to 10 fl. oz. (370 ml to 740 ml/Ha)	2.0 fl. oz (148 ml/Ha)	8 fl. oz. (592 ml/Ha)
	16 fl. oz (1,184 ml/Ha)	3.0 fl. oz. (222 ml/Ha)	
	20 fl. oz. (1,480 ml/Ha)	4.0 fl. oz (296 ml/Ha)	
β-cyfluthrin 12.7% a. i. Baythroid® XL	0.8 fl. oz. to 1.6 fl. oz. (59 ml to 118 ml/Ha)	2.0 fl. oz. (148 ml/Ha)	8 fl. oz. (592 ml/Ha)
	1.8 fl. oz. to 2.4 fl. oz (133 ml to 177 ml/Ha)	3.0 fl. oz. (222 ml/Ha)	

	2.8 fl. oz. (207 ml/Ha)	3.5 fl. oz. (259 ml/Ha)	
	3.2 fl. oz. (237 ml/Ha)	4 fl. oz. (296 ml/Ha)	
	6.4 fl. oz. (474 ml/Ha)	8 fl. oz. (592 ml/Ha)	
Cyfluthrin 25% a.i. Baythroid® 2	0.80 fl. oz. (59 ml/Ha)	2.0 fl. oz. (148 ml/Ha)	8 fl. oz. (592 ml/Ha)
	1.6 fl. oz. (118 ml/Ha)	4.0 fl. oz. (296 ml/Ha)	
	2.0 fl. oz. (148 ml/Ha)	5.0 fl. oz. (370 ml/Ha)	
	2.8 fl. oz. (207 ml/Ha)	7.0 fl. oz. (518 ml/Ha)	
	3.2 fl. oz. to 6.4 fl. oz. (237ml to 474 ml/Ha)	8.0 fl. oz. (592 ml/Ha)	
Cyfluthrin 20% a.i. Renounce® 20 WP	1.0 oz. (74 ml/Ha)	2 fl. oz. (148 ml/Ha)	8 fl. oz. (592 ml/Ha)
	2.0 oz (148 ml/Ha)	4 fl. oz. (296 ml/Ha)	
	2.5 oz. (185 ml/Ha)	5 fl. oz. (370 ml/Ha)	
	3.0 oz. (222 ml/Ha)	6 fl. oz. (444 ml/Ha)	
	3.5 oz (259 ml/Ha)	7 fl. oz. (518 ml/Ha)	
	4.0 to 8.0 oz. (296 ml to 592ml/Ha)	8 fl. oz. (592 ml/Ha)	
Cypermethrin 30.6% a.i. Ammo® 2.5 EC Up-Cyde 2.5 EC	2.0 fl. oz (148 ml/Ha)	6.4 fl. oz. (474 ml/Ha)	8 fl. oz. (592 ml/Ha)
	2.5 fl. oz to 5.0 fl. oz (185 ml to 379 ml/Ha)	8.0 fl. oz. (592 ml/Ha)	
Bifenthrin 10% a.i. Brigade WSB	6.4 oz. (474 ml/Ha)	6.4 fl. oz. (474 ml/Ha)	8.0 fl. oz. (592 ml/Ha)
	8.0 oz. to 32 oz (592 ml to 2,368 ml /Ha)	8.0 fl. oz. (592 ml/Ha)	
Bifenthrin 25.1% a.i. Capture® 2EC Brigade® 2EC Bifenthrin 2EC	1.6 fl. oz (118 ml/Ha)	4.0 fl. oz (296 ml/Ha)	8.0 fl. oz. (592 ml/Ha)
	2.10 fl. oz. (155 ml/Ha)	5.3 fl. oz (392.2 ml/Ha)	
	2.60 fl. oz. (192 ml/Ha)	6.4 fl. oz. (474 ml/Ha)	
	3.20 fl. oz to 32.0 fl. oz. (237 to 2,368 ml to	8.0 fl. oz (592 ml/Ha)	

Esfenvalerate 8.4% a.i. Asana® XL	2.90 fl. oz. (215 ml/Ha)	2.4 fl. oz. (177 ml/Ha)	8.0 fl. oz. (592 ml/Ha)
	4.80 fl. oz (355 ml/Ha)	4.0 fl. oz. (296 ml/Ha)	
	5.80 fl. oz. (429 ml/Ha)	4.8 fl. oz. (355 ml/Ha)	
	8.0 fl. oz. (592 ml/Ha)	6.4 fl. oz. (474 ml/Ha)	
	9.60 fl. oz. to 14.50 fl. oz (710 ml to 1,073 ml/Ha)	8.0 fl. oz. (592 ml/Ha)	

Fenpropathrin 30.9% a.i. Danitol® 2.4 EC Spray Tame 2.4 EC Spray	5 1/3 to 21 1/3 fl. oz. (394 ml to 1,578 ml/Ha)	8.0 fl. oz. (592 ml/Ha)	8.0 fl. oz. (592 ml/Ha)
Imidacloprid 17.4% a.i. Provado 1.6	2.0 fl.oz. (148 ml/Ha)	4.0 fl. oz. (296 ml/Ha)	8.0 fl. oz. (592 ml/Ha)
	3.0 fl. oz. (222 ml/Ha)	6.0 fl. oz. (444 ml/Ha)	
	3.8 fl. oz. (281 ml/Ha)	7.6 fl. oz. (562 ml/Ha)	
	4.0 fl. oz. to 20.0 fl.oz. (296 ml to 1,480 ml/Ha)	8.0 fl. oz. (592 ml/Ha)	
Imidacloprid 75.0% a.i. Provado Solupak 75%	0.8 to 1.0 oz. (592 ml/Ha)	8.0 fl. oz. (592 ml/Ha)	8.0 fl. oz. (592 ml/Ha)
Lambda-cyhalothrin 11% a.i. Warrior®	1.92 fl. oz. (142 ml/Ha)	2.4 fl. oz. (178 ml/Ha)	8.0 fl. oz. (592 ml/Ha)
	2.56 fl. oz. (189 ml/Ha)	3.2 fl. oz. (237 ml/Ha)	
	3.20 fl. oz. (237 ml/Ha)	4.0 fl. oz. (296 ml/Ha)	
	3.84 fl. oz. (284 ml/Ha)	4.8 fl. oz. (355 ml/Ha)	
Methomyl 29% a.i. Lannate® LV	12 fl. oz. to 48 fl. oz. (888 ml to 3,552 ml/Ha)	8.0 fl. oz. (592 ml/Ha)	8.0 fl. oz. (592 ml/Ha)
Permethrin 38.4% Pounce® 3.2 EC Permethrin 3.2EC	2.0 fl. oz. (148 ml/Ha)	4.0 fl. oz. (296 ml/Ha)	8.0 fl. oz. (592 ml/Ha)
	4.0 fl. oz. to 16 fl. oz. (296 ml to 1,184 ml/Ha)	8.0 fl. oz. (592 ml/Ha)	
Permethrin 25% a.i. Pounce® 25WP	3.2 oz. (237 ml/Ha)	4.0 fl. oz. (296 ml/Ha)	8.0 fl. oz. (592 ml/Ha)
	6.4 oz. to 32.0 fl. oz. (474 ml to 2,368 ml/Ha)	8.0 fl. oz. (592 ml/Ha)	
Zeta-cypermethrin 9.6% a.i. Mustang Max®	1.28 fl oz. to 1.92 fl. oz. (95 ml to 142 ml/Ha)	2.0 fl. oz. (148 ml/Ha)	8.0 fl. oz. (592 ml/Ha)
	2.24 fl. oz. to 3.0 fl. oz. (166 to 222 ml/Ha)	3.0 fl. oz. (222 ml/Ha)	
	3.2 fl. oz to 4.0 fl. oz. (237 ml to 296 ml/Ha)	4.0 fl. oz. (296 ml/Ha)	
Zeta-cypermethrin 18.1% a.i. Fury®	1.4 fl. oz. (134 ml/Ha)	2.6 fl. oz. (192 ml/Ha)	8.0 fl. oz. (592 ml/Ha)
	1.9 fl. oz. (141 ml/Ha)	3.5 fl. oz. (259 ml/Ha)	
	2.0 fl. oz. (148 ml/Ha)	3.8 fl. oz. (281 ml/Ha)	
	2.4 fl. oz. (178 ml/Ha)	4.5 fl. oz. (333ml/Ha)	
	2.8 fl. oz. (207 ml/Ha)	5.3 fl. oz. (392 ml/Ha)	

	3.0 fl. oz. (222 ml/Ha)	5.6 fl. oz. (414 ml/Ha)	
	3.4 fl. oz. (252 ml/Ha)	6.4 fl. oz. (474 ml/Ha)	
	4.3 fl. oz. (318 ml/Ha)	8.0 fl. oz. (592 ml/Ha)	

ALWAYS FOLLOW THE MOST RESTRICTIVE LABEL INSTRUCTIONS AND PRECAUTIONS OF ALL PRODUCTS IN A TANK MIX.

CHEMIGATION USE DIRECTIONS:

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.

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.

ALWAYS FOLLOW THE MOST RESTRICTIVE LABEL INSTRUCTIONS AND PRECAUTIONS OF ALL PRODUCTS IN A TANK MIX.

POST HARVEST APPLICATION TO VEGETABLES, FRUITS, NUTS AND OTHER COMMODITIES: Including Potatoes, Tomatoes, Peas, Sweet Potatoes, Apples, Blackberries, Blueberries, Boysenberries, Cherries, Crabapples, Currants, Dewberries, Figs, Gooseberries, Grapes, Guava, Loganberries, Mangoes, Muskmelons, Oranges, Peaches, Pears, Pineapples, Plums, Raspberries, Almonds, Walnuts, copra and Peanuts.

When used as a space spray to fruits, vegetables and copra, do not exceed 0.16 fl. oz. of MGK PBO 8-E per 1000 cu. ft. (0.17 ml/m³) of space treated.

When used as a surface application to the commodities listed, do not exceed 1.6 fl. oz. of MGK PBO 8-E per 1000 sq. ft. (0.50 ml/m²) treated. When used as a surface application to fruits or tomatoes in baskets or hampers, do not exceed 1.3 x 10⁻⁵ oz. Of MGK® PBO-8E per lb. (1.6 10⁻⁵ g/Kg) of fruit.

When used as a Dip or Spray, do not exceed .64 fl. oz. of MGK PBO 8-E per 10 gallons of water (50 ml/L).

Do not apply more than 1 time per day. Do not reapply within 7 days. Do not apply more than 10 times to sweet potatoes.

POST HARVEST APPLICATION TO STORED GRAIN AND SEED: Including Barley, Beans, Lima Beans, Birdseed, Buckwheat, Cocoa beans, Corn, Cottonseed, Flax, Grain Sorghum, Oats, Field peas, Rice, Rye and Wheat.

When used in a "top dress" surface application, do not exceed 8 fl. oz. of MGK PBO 8-E per 1000 sq. ft. (2.5 ml/m²) treated.

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When used in Direct application to bulk grain and seed, do not exceed 16 fl. oz. (473 ml) of MGK PBO 8-E per 1000 bushels of grain.

Do not reapply within 30 days.

Maximum Application Rates of MGK PBO 8-E per 100 lbs (45.35 Kg) of commodity (cwt):

Barley	0.53 fl. oz. (15.6 ml) per cwt
Beans	0.43 fl. oz. (12.7 ml) per cwt
Lima Beans	0.46 fl. oz. (13.6 ml) per cwt
Birdseed	0.51 fl. oz. (15.0 ml) per cwt
Buckwheat	0.53 fl. oz. (15.7 ml) per cwt
Cocoa Beans	0.59 fl. oz. (17.5 ml) per cwt
Corn	0.46 fl. oz. (13.6 ml) per cwt
Cottonseed	0.91 fl. oz. (26.9 ml) per cwt
Flax	0.46 fl. oz. (13.6 ml) per cwt
Grain Sorghum	0.46 fl. oz. (13.6 ml) per cwt
Oats	0.80 fl. oz. (23.6 ml) per cwt
Field peas	0.43 fl. oz. (12.7 ml) per cwt
Rice	0.58 fl. oz. (17.1 ml) per cwt
Rye	0.46 fl. oz. (13.6 ml) per cwt
Wheat	
(club, common, durham)	0.43 fl. oz. (12.7 ml) per cwt
(emmer, spelt)	0.64 fl. oz. (18.9 ml) per cwt

FOOD STORED IN BAGS

May be used as a Space spray made to the surfaces of bags of stored food products. Do not exceed 0.4 fl. oz. of MGK PBO 8-E per 1000 cu. ft. (4.2 ml/m³) of space treated.

Direct application to food contact surfaces is prohibited

NON-CROP USE DIRECTIONS:

MGK® PBO 8-E MAY BE USED IN A TANK MIX WITH INSECTICIDES LABELED FOR USE IN THE FOLLOWING AREAS OR USE PATTERNS:

Residential Dwellings and Commercial, Institutional Indoor Sites: Sites such as Homes, Multiple Unit Housing, Hotels, Schools, Restaurants, Food Processing Facilities, Food Storage and Warehousing, Bakeries, Residential Facilities, Healthcare Facilities, Warehouses, Office Buildings, Factories, Home Exteriors, and Industrial Facilities.

Do not use in nurseries or rooms where infants ill, or aged persons are confined.

When used as a space spray do not exceed 0.4 fl. oz. of MGK PBO 8-E per 1000 cu. ft. (0.42 ml/m³) of space treated. Ventilate well prior to reentry or reoccupation. Do not apply more than 1 time per day.

If used as a crack and crevice, broadcast surface spray or spot treatment, do not exceed 8.0 fl. oz of MGK PBO 8-E per 1000 square feet (2.5 ml/m²) treated. For metered release device space sprays, do not exceed 0.80 oz. of MGK® PBO-8E per 1000 cu. ft. (0.8 g/m³) of space treated per day. Do not place metering device directly over or within 8 feet of exposed food, dishes, utensils, food processing equipment and food handling or preparation. Do not install within 3 feet of air vents. Carefully follow directions for the dispenser unit when installing the dispenser and replacing cans or conducting maintenance.

Allow spray to dry prior to reentry. Do not apply more than 1 time per day.

Remove or cover exposed food and drinking water before application. Remove or cover dishes, utensils, food processing equipment and food preparation surfaces, or wash them before use.

Do not use in aircraft cabins except in compliance with PR Notice 96-3.

TREATMENTS IN FOOD HANDLING ESTABLISHMENTS (Places other than private residences in which food is held, processed, prepared or served):

Do not make space spray applications when facility is in operation. Prior to space spray applications, cover food processing surfaces or clean after treatment and before use.

APPLICATION TYPE	APPLICATION RATE	USE DIRECTIONS AND LIMITATIONS
Surface General	Apply no more than 9 fl. oz of PBO 8E per 1000 sq ft. (0.56 lb PBO/1000 sq. ft.)	Remove or cover exposed food and water before application. Remove or cover dishes, utensils, food processing equipment, and food preparation surfaces, or wash them thoroughly before use. Do not apply more than 1 time per day. For articles: Do not wet article to point of runoff or drip. Do not use treated article until spray has dried.
Surface—Crack and Crevice or spot	Apply more than 9 fl. oz of PBO 8E per 1000 sq ft. (0.56 lb PBO/1000 sq. ft.)	
Space—General	Apply more than 0.400 fl. oz. of PBO 8E/ 1,000 cu. ft. (.025 lb PBO per 1,000 cu. ft.)	Do not use in nurseries or rooms where infants, ill, or aged persons are confined. Do not place metering devisee directly over or within 8 feet of exposed feeds, dishes, milking utensils, and feed handling or preparation areas. Do not install within 3 feet of air vents. Carefully follow directions for the dispenser unit when installing the dispenser and replacing cans or conducting maintenance. Remove or cover exposed food and water before application...
Space Metered Release	Apply no more than 0.8 fl oz. of PBO 8E per 1,000 cu. ft. per day.(0.05 lbs. PBO /1,000 cu. ft. per day)	

NON-FOOD AREAS: MGK® PBO-8E may be used to treat nonfood areas. Nonfood areas include areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

FOOD AREAS: MGK® PBO 8-E can be used to treat food areas of food handling establishments, restaurants, or other areas where foods are commercially prepared or served. Do not make space spray application when facility is in operation. During space spray applications, cover or remove food. During space spray applications, cover food-processing surfaces or clean after treatment with a suitable detergent and rinse with potable water before use.

GENERAL OUTDOOR SITES: Sites such as Non-Agricultural rights of way, Commercial, Industrial and Institutional Premises and Outdoor Eating Establishments. Including Parks, Landscape, Turf, Home Exteriors, Buildings, Industrial Facilities, Equipment.

When used as a broadcast surface spray, do not exceed 1.2 fl. oz of MGK PBO 8-E per 1000 sq. ft. (0.38 ml/m²) treated.

When used as a crack and crevice or spot surface treatment, do not exceed 8.0 fl. oz. of MGK PBO 8-E per 1000 sq.ft. (2.5 ml/m²)

Do not apply more than 1 time per day.

OUTDOOR ORNAMENTAL AND LAWNS: Sites such as Trees, Shrubs, Flowers, Foliage Plants, Lawns, Yards, Turf Grass, Golf Courses, Parks, Landscape.

When used as a broadcast surface application, do not exceed 0.32 fl. oz. of MGK PBO 8-E per 1000 sq. ft. (0.1 ml/m²) (16 fl. oz. per acre (1,182 ml/Ha)). Do not wet plants to point of runoff or drip.

When used as a crack and crevice or spot surface treatment (including applications for fire ants or turf diagnostic aid), do not exceed 8.0 fl. oz of MGK PBO 8-E per 1000 sq. ft. (2.5 ml/m²). Do not apply more than 1 time per day.

PET PREMISE TREATMENT:

May be used in a space spray application for pet premises. Do not exceed 0.5 fl. oz. of MGK PBO 8-E per 1000 cu. ft. (0.52 ml/m³) of space treated.

For broadcast surface sprays, or crack and crevice or spot surface treatments, do not exceed 8.0 fl. oz. of MGK PBO 8-E per 1000 sq. ft. (2.5 ml/m²) treated.

DIRECT APPLICATION TO LIVESTOCK, DAIRY AND POULTRY ANIMALS:

MGK® PBO 8-E may be tank mixed with insecticides labeled for application directly to Non-domestic animals (including lactating dairy animals, meat and poultry animals). Do not apply more than 1 time per day. Do not apply microencapsulated product to lactating or food animals.

LIVESTOCK, DAIRY AND POULTRY PRODUCTION FACILITIES AND PREMISES:

MGK® PBO 8-E may be tank mixed with insecticides labeled for use in and around Livestock, Dairy and Poultry Production Facilities, Indoor Agricultural Premises, Commercial Animal Housing and Equipment to improve control of flying and crawling insects.

When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.

Not for use in outdoor residential misting systems (indoor or outdoor).
Do not apply this product in barns or stables where animals intended for slaughter or human consumption will be maintained.
Do not apply when food, feed, and/or water is present.
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.
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 [MGK PBO 8-E or brand name] to ___ parts water
If used in a direct injection system, the pesticide container must be locked. Securely attach the end use label to the pesticide container in a weather protected area or plastic sleeve.
This product must only be used in systems that have been calibrated to apply no more than the maximum application rate of 1.28 fl.oz / 1000cu ft.

WHEN ANIMALS ARE NOT PRESENT:

When used as a space spray, do not exceed 4.0 fl. oz. of MGK PBO 8-E per 10000 cu. ft. (0.13 ml/m³) of space treated.
For surface applications, crack and crevice, or spot surface treatments, do not exceed 8.0 fl. oz per 1000 sq. ft. (2.5 ml/m²) treated.
For metered release device space sprays, do not exceed 0.80 fl. oz. of MGK® PBO-8E per 1000 cu. ft. (0.8 ml/m³) of space treated per day.

Do not apply more than 1 time per day.

AS A SPACE SPRAY WHEN ANIMALS ARE PRESENT:

May be used in a space spray when non-domestic animals are present. Do not exceed 1.28 fl. oz. of MGK PBO 8-E per 1000 cu. ft. (1.35 ml/m³) of space treated per day.

When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.

OUTDOOR AGRICULTURAL PREMISES:

When used as a broadcast surface spray, do not exceed 0.32 fl. oz. of MGK PBO 8-E per 1000 sq. ft. (0.1 ml/m²) treated (16.0 fl. oz. per acre (1,182 ml/Ha)).

For crack and crevice, or spot surface sprays (including applications for fire ant applications or turf diagnostic aid), do not exceed 8.0 fl. oz. of MGK PBO 8-E per 1000 sq. ft. (2.5 ml/m²) of space treated.

Do not apply more than 1 time per day.

MGK® PBO 8-E NON-CROP USE RATES and RESTRICTIONS:

FOR GROWING PLANTS THAT WILL BE CONSUMED AS FOOD, DO NOT EXCEED 0.384 FL. OZ. (2.3 TEASPOONS) OF MGK® PBO 8-E PER 1000 SQUARE FEET (0.12 ml/m²), PER APPLICATION.

After treatment, do not allow children and pets into treated areas until spray has dried.

Always test final spray solution in an inconspicuous area prior to use as some fibers or surfaces may be adversely affected by an application of this, or any liquid product.

WHEN TANK MIXING, ALWAYS FOLLOW THE MOST RESTRICTIVE LABELING OF ALL PRODUCTS IN THE MIXTURE.

NON-CROP Mixing Chart Based on Tank-mix Partner Volume:

THE PURPOSE OF THIS CHART IS SOLELY TO RECOMMEND THE RATE OF MG®K PBO 8-E PER VOLUME OF TANK MIX PARTNER. THIS IS NOT A RECOMMENDATION OF TANK MIX PARTNER USE RATES. PLEASE REFER TO THE MOST CURRENT TANK MIX PARTNER LABEL TO DETERMINE THE RATE OF THAT SPECIFIC PRODUCT THAT IS APPROPRIATE FOR YOUR APPLICATION.

Tank mix partner Chemical name Example Brand name	IF Tank Mix Partner Rate (Volume) is:	THEN MGK® PBO 8-E Rate Recommended is:
Tau-fluvalenate 22.3% a.i. Mavrik Aquaflo Mavrik Perimeter	0.2 fl. oz (5.9 ml)	0.5 fl. oz. (14.8 ml)
	0.5 fl.oz (14.8 ml)	1.25 fl. oz (37.0 ml)
	4 to 10 fl.oz. (118.3 ml to 295.7 ml)	10 to 25 fl. oz. (295.7 ml to 739.2 ml)
Deltamethrin 4.75% a.i. Suspend SC	0.25 to 0.50 fl. oz. (7.4 ml to 14.8 ml)	0.25 fl. oz. (7.4 ml)
	.75 fl. oz. (22.2 ml)	0.40 fl. oz. (11.8 ml)
	1.0 fl. oz. (29.6 ml)	0.50 fl. oz. (14.8 ml)
	1.5 fl. oz. (44.3 ml)	0.75 fl. oz. (22.2 ml)
	4 fl. oz. (118.3 ml)	2.0 fl. oz. (59.1 ml)
	8 fl. oz. (240 ml)	4.0 fl. oz. (118.3 ml)
Bifenthrin 7.9% a.i. TalstarOne	1 fl. oz (29.6 ml)	0.8 fl. oz. (23.6 ml)
	2 fl. oz. (59.1 ml)	1.6 fl. oz. (47.3 ml)
	5 fl. oz. (147.8 ml)	4.0 fl. oz. (118.3 ml)
	10 fl. oz. (295.7 ml)	8.0 fl. oz. (240 ml)
	32 fl. oz. (946.2 ml)	26 fl. oz. (768.8 ml)
β-Cyfluthrin 11.8% a.i. Tempo SC Ultra	8 milliliters	0.34 fl. oz. (10.0 ml)
	12 milliliters	0.50 fl. oz. (14.8 ml)
	16 milliliters	0.68 fl. oz. (20.1 ml)
	24 milliliters	1.0 fl. oz. (29.6 ml)
	32 milliliters	1.25 fl. oz. (37.0 ml)
	40 milliliters	1.7 fl. oz. (50.2 ml)
	60 milliliters	2.50 fl. oz. (73.9 ml)
Esfenvalerate 6.4% a.i. Onslaught	0.5 fl. oz. (14.8 ml)	0.35 fl. oz (10.3 ml)
	1.0 fl. oz. (29.6 ml)	0.70 fl. oz (20.7 ml)
Esfenvalerate 9.36% a.i. Evercide MC	0.4 fl. oz. (11.8 ml)	0.40 fl. oz (11.8 ml)
	0.8 fl. oz. (23.6 ml)	0.80 fl. oz. (23.6 ml)
Esfenvalerate 3.48% a.i. Conquer Evercide EC	1.0 fl. oz (29.6 ml)	0.30 fl. oz. (8.9 ml)
	2.0 fl. oz. (59.1 ml)	0.60 fl. oz. (17.7 ml)
Cyfluthrin 6% a.i. Cy-Kick CS	1 fl. oz. (29.6 ml)	0.60 fl. oz. (17.7 ml)
	2 fl. oz. (59.1 ml)	1.20 fl. oz.(35.5 ml)
Lambda-cyhaolothrin 9.7% a.i. Demand CS	0.2 fl. oz (5.9 ml)	0.25 fl. oz. (7.4 ml)
	0.4 fl. oz. (11.8 ml)	0.50 fl. oz. (14.8 ml)
	0.8 fl. oz. (23.6 ml)	1.0 fl. oz. (29.6 ml)
Cypermethrin 25.3% a.i. Demon Max	0.33 fl. oz. (9.7 ml)	0.85 fl. oz. (25.1 ml)
	0.5 fl. oz. (14.8 ml)	1.30 fl. oz. (38.4 ml)
	0.65 fl. oz (19.2 ml)	1.70 fl. oz. (50.3 ml)
	1.0 fl. oz. (29.6 ml)	2.50 fl. oz. (73.9 ml)
	1.3 fl. oz (38.4 ml)	3.40 fl. oz. (100.5 ml)

	2.6 fl. oz. (76.9 ml)	6.70 fl. oz. (198.1 ml)
	5.1 fl. oz. (150.8 ml)	13.0 fl. oz. (384.4 ml)
Permethrin 36.8% a.i. Astro Dragnet SFR Permethrin Pro Tenguard	1.0 fl. oz (29.6 ml)	0.40 fl. oz. (11.8 ml)
	1.67 fl. oz. (49.4 ml)	0.67 fl. oz. (19.8 ml)
	3.33 fl. oz. (98.5 ml)	1.33 fl. oz. (39.3 ml)
	6.67 fl. oz. (197.2 ml)	2.67 fl. oz. (78.9 ml)
	16.0 fl. oz. (473.1 ml)	6.0 fl. oz. (177.4 ml)
	1.0 gallon (3.78 L)	50.0 fl. oz. (1,478.5 ml)
	1.25 gallons (4.75 L)	64.0 fl. oz. (1,892.5 ml)

Permethrin 25.6% a.i. Prelude	0.64 fl. oz (18.9 ml)	0.25 fl. oz. (7.39 ml)
	1.0 fl. oz. (29.6 ml)	0.25 fl. oz. (7.39 ml)
	1.28 fl. oz. (37.8 ml)	0.33 fl. oz. (9.7 ml)
	2.60 fl. oz (76.9 ml)	0.67 fl. oz. (19.8 ml)
	3.75 fl. oz. (110.9 ml)	1.0 fl. oz. (29.6 ml)
	5.0 fl. oz. (147.8 ml)	1.25 fl. oz. (37.0 ml)
	6.0 fl. oz (177.4 ml)	1.50 fl. oz. (44.3 ml)
	10.4 fl. oz. (307.5 ml)	2.50 fl. oz. (73.9 ml)
	1 gallon (3,78 L)	32.0 fl. oz. (946.2 ml)
Permethrin 10% a.i. Evercide Permethrin 10%	0.32 fl. oz. (9.5 ml)	0.25 fl. oz. (7.4 ml)
	0.64 fl. oz. (18.9 ml)	0.25 fl. oz. (7.4 ml)
	1.0 fl. oz. (29.6 ml)	0.25 fl. oz. (7.4 ml)
	3.2 fl. oz. (94.6 ml)	0.50 fl. oz. (14.8 ml)
	6.4 fl. oz. (189.2 ml)	0.50 fl. oz. (14.8 ml)
Imidacloprid 21.4% a.i. Premise 2 Imidipro	8 milliliters (0.27 fl.oz.)	0.67 fl. oz. (19.8 ml)
	16 milliliters (0.54 fl.oz.)	1.35 fl. oz. (39.9 ml)
	1.0 fl. oz (29.6 ml)	2.50 fl. oz. (73.9 ml)
	32 milliliters (1.08 fl.oz)	2.70 fl. oz. (79.8 ml)
	40 milliliters (1.35 fl.oz.)	3.37 fl. oz. (99.6 ml)
	80 milliliters (2.7 fl.oz.)	6.75 fl. oz. (199.6 ml)
	160 milliliters (5.4 fl.oz.)	13.50 fl. oz. (399.2 ml)

ALWAYS READ AND FOLLOW LABEL DIRECTIONS OF **ALL** PRODUCTS USED IN A TANK MIX.

ALWAYS FOLLOW THE MOST RESTRICTIVE LABEL INSTRUCTIONS AND PRECAUTIONS OF ALL PRODUCTS IN A TANK MIX.

DO NOT MIX MGK® PBO 8-E WITH ANY PRODUCT HAVING LABEL PROHIBITIONS AGAINST SUCH MIXING.

In absence of specific data or experience on growing plants, trees and ornamentals (outdoors, in greenhouses or indoors), it is recommended that tank-mixes with MGK® PBO 8-E be tested for any phytotoxicity on a representative sample of the growing plants prior to use.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool, dry area. Always store pesticides in the original container. Store away from food and pet food.

PESTICIDE DISPOSAL:

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry.)

CONTAINER HANDLING:

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill.

Triple Rinse as follows [for containers of 5 Gallons (18.9 L) or less]: 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.

Triple Rinse as follows [for containers greater than 5 Gallons (18.9 L)]: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.