

1021-1511

10/4/2004

ACCEPTED

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MGK® **McLAUGHLIN GORMLEY KING COMPANY**

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1021-1511

MGK® PBO-8E

An Emulsifiable Concentrate Containing 8 lbs. of Piperonyl Butoxide, Technical per Gallon. 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.

8810 Tenth Avenue N. / Minneapolis, Minnesota 55427-4319 U.S.A.

TELEPHONE (763) 544-0341

ACTIVE INGREDIENT:

(butylcarbityl) (6-propylpiperonyl) ether..... 73.04%

Related compounds..... 18.26%

OTHER INGREDIENTS 8.70%

100.00%

MGK® - Registered trademark of McLaughlin Gormley King Co.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

IF SWALLOWED:	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have a 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 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.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For information regarding medical emergencies or pesticide incidents, call the International Poison Center at 1-888-740-8712.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear: Long-sleeved shirt and long pants; Chemical-resistant gloves, such as, Barrier Laminate, Neoprene Rubber, Nitrile Rubber, or Viton; Shoes plus socks.

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

User Safety Recommendations:

Users should:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing 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 fish. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

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 Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls; Chemical-resistant gloves, such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton; Shoes plus socks.

DIRECTIONS FOR USE

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

Do not apply with product through any type of irrigation system.

This product is an emulsifiable concentrate for use in a tank mix only with insecticides and acaricides to aid in improving the control of insects. 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.

Observing the directions and volume of water on the insecticide label, tank-mix at a rate of up to 1.0 lb. AI (16 fluid ounces) of MGK® PBO-8E per acre. 16 fluid ounces (1 pint) will provide 1.0 lb. 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. Mix 1-10 parts of MGK® PBO 8-E's active ingredient with 1 part of an insecticide's active ingredient. Most insecticides are synergized at the ratio of 5 parts MGK® PBO 8-E's active ingredient to 1 part of an insecticide's active ingredient. The ratio of 10 parts MGK® PBO 8-E's active ingredient to 1 part insecticide active ingredient is recommended for situations where high insect pressures are present, in poor weather or environmental conditions, where insects are protected by harborage (hiding places) or where resistant insect populations are suspected.

One fluid ounce of MGK® PBO 8-E contains 0.0625 pounds 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.

Equation: (lbs insecticide a.i. x desired ratio of MGK® PBO 8-E) / 0.0625 = 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. ALWAYS FOLLOW THE MOST RESTRICTIVE LABEL INSTRUCTIONS AND PRECAUTIONS OF PRODUCTS IN A TANKMIX. DO NOT MIX MGK® PBO 8-E WITH ANY PRODUCT HAVING LABEL PROHIBITIONS AGAINST SUCH MIXING.

MGK® PBO 8-E may be used in a tank mix with an insecticide on GROWING CROPS (OUTDOORS AND IN GREENHOUSES):

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), Onion, Welch, Shallot.

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

BRASSICA (COLE) LEAFY VEGETABLES: Broccoli, Chinese Broccoli (Gai Lan), Broccoli raab (Rapini), Brussels Sprouts, Cabbage, Chinese Cabbage (Bok Choy), Chinese Mustard Cabbage (Gai Choy), Cauliflower, Collards, Kale, Kohlrabi, Mustard Greens, 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, Chowder Peas, Field Beans, Guar, Jackbeans (Sword Beans), Kidney Beans, Lablab Beans (Hyacinth Beans), Lima Beans, Lentils, Moth Beans, Mung Beans, Navy Beans, Peas (Garden Peas, Field Peas, Sugar Peas), Pigeon Peas, Pinto Beans, Rice Beans, Runner Beans, Snap Beans, Southern Peas, Tepary Beans, Urd 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, Cantaloupe, Casaba, Crenshaw, Honeydew Melons, Honey Balls, Mango Melon, Muskmelon, Persian Melon), Pumpkin, Squash (summer & winter), Watermelon (including hybrids).

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

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

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

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

TREE NUTS: Including (but not limited to) 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, Hops, Jojoba, Mushroom, Okra, Peanuts, Pineapple, Safflowers, Sesame, Sugar Cane, Sunflowers, Tea.

CEREAL GRAINS: Including (but not limited to), Barley, Buckwheat, Corn (sweet and field), Millet, Proso, Oats, Millet, Pearl, Popcorn, Rice, Rye, Sorghum (Milo), Teosine, Triticale, Wheat, Wild Rice.

FORAGE, FODDER AND STRAW OF CEREAL GRAINS: Including (but not limited to), 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 (but not limited to) 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.

NON-GRASS ANIMAL FEEDS: Including (but not limited to) Alfalfa, Velvet Bean, Clover, Kudzu, Lespedeza, Lupin, Sainfoin, Trefoil, Crown Vetch, Milk Vetch.

HERBS AND SPICES: Including (but not limited to) 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, Wintergreen, Woodruff, Wormwood.

ADDITIONAL CROPS: Asparagus, Onion, Rice.

ORNAMENTALS: African Violet, Aster, Azalea, Begonia, Calceolaria, Calendula, Calla, Camellia, Carnation, Cineraria, Chrysanthemum, Cypress, Daffodil, Dahlia, Dogwood, Elm, Eucalyptus, Fern, Ficus, Geranium, Gladiolus, Gypsophila, Holly, Juniper, Lily, Marigold, Oak, Peony, Petunia, Philodendron, Pine, Roses, Snapdragon, Sweet Pea, Tulips, Viburnum, Wandering Jew, Yew, Zinnia.

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

OUTDOOR USES AND AREAS SUCH AS, BUT NOT LIMITED TO: TREES, SHRUBS, FLOWERS, FOLIAGE PLANTS, LAWNS, GARDENS, YARDS, PARKS, LANDSCAPE, PET PREMISES, TURF, HOME EXTERIORS, BUILDINGS, INDUSTRIAL FACILITIES, EQUIPMENT, FARMYARDS AND LIVESTOCK PREMISES.

INDOOR AREAS SUCH AS BUT NOT LIMITED TO: TREES, SHRUBS, FLOWERS, FOLIAGE PLANTS, BARNS, MILKING FACILITIES, DAIRIES, POULTRY HOUSES, AND NON-FOOD AREAS OF HOMES, RESTAURANTS, SCHOOLS, RESIDENTIAL FACILITIES, HEALTHCARE FACILITIES, WAREHOUSES, FOOD PROCESSING PLANTS, AND INDUSTRIAL FACILITIES.

MGK® PBO 8-E RATE: TANKMIX WITH AN INSECTICIDE AT THE FOLLOWING RATE: 0.1 FL. OZ. TO 8.0 FL. OZ. OF MGK® PBO 8-E PER 1,000 SQUARE FEET OF AREA TREATED. 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 1,000 SQUARE FEET, PER APPLICATION.

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

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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 plant prior to use.

STORAGE AND DISPOSAL

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

STORAGE: Store in a cool, dry place. Keep container closed.

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: Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other approved State and Local procedures.

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