

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JAN 10 2000

Julie B. Schlekau
Registration Specialist
MGK
8810 Tenth Avenue North
Minneapolis, Minnesota 55427-4372

Dear Ms. Schlekau:

Subject: MGK Formula 7243
EPA Reg. No. 1021-1340
Your submission dated 9/27/96

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. One copy of the finished labeling must be submitted prior to releasing the product for shipment.

Modify the skin precautionary statements in first paragraph of the precautionary statements to read as follows:

Corrosive. Causes skin burns. Do not get in eye, on skin, or on clothing. Wear protective clothing and gloves. Wash thoroughly with soap and water after handling.

Add to the physical or chemical hazards statements the following:

Combustible. Do not use or store near heat or open flame. Do not apply this product in or on electrical equipment due to the possibility of shock hazard.

CONCURRENCES

SYMBOL	7505c							
SURNAME	<i>[Signature]</i>							
DATE	JAN 10 2000							

If you have questions, please call Ann Sibold at 703 305-6502.

Sincerely,

Ann Sibold
for Marion J. Johnson, Jr.
Product Manager 3
Insecticide Branch
Registration Division (7505C)

7243-996

with 009111-10
In EPA Letter Dated:

3 7 7

JAN 10 2000

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, this product is registered under EPA Reg. No. 1021-1340

FORMULA 7243

MIGK McLAUGHLIN
GORMLEY
KING COMPANY

Water or Oil Dilutable Concentrate

8810 Tenth Avenue N. / Minneapolis, Minnesota 55427-4372 U.S.A.

TELEPHONE (612) 544-0341

For use in Bakeries, Bottling Plants, Canneries, Flour Mills, Food Processing Plants, Grain Elevators, Hospitals, Hotels, Motels, Restaurants, and Outdoors for Mosquito Control and on Growing Crops.

ACTIVE INGREDIENTS:

Pyrethrins.....	1.00%
* Piperonyl butoxide, Technical.....	10.00%
** INERT INGREDIENTS.....	89.00%
	<hr/>
	100.00%
* Equivalent to 08.00% (butylcarbityl) (6-propylpiperonyl) ether and 02.00% related compounds.	
** Contains petroleum distillate	

REC'D L.A. 1/10/00 P/DPD1

DDT -1 P 3:25

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

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)

STATEMENT OF PRACTICAL TREATMENT

- IF SWALLOWED:** Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Get medical attention.
- IF IN EYES:** Flush with plenty of water. Call a physician if irritation persists.
- IF ON SKIN OR CLOTHING:** Wash with plenty of soap and warm water. Get medical attention.
- IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration preferably mouth to mouth. Get medical attention.
- NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Aspiration pneumonia hazard may contraindicate the induction of vomiting.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

Corrosive. Causes burns. Do not get in eyes, on skin, or on clothing. Due to corrosive nature, may be harmful or fatal if swallowed. Causes eye irritation. Harmful if absorbed through skin or inhaled. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Do not apply space spray while food processing is underway. Cover or remove all food processing surfaces. Thoroughly wash all food processing surfaces before reuse. After spraying in bakeries, meat packing plants, food processing plants, etc., all benches, shelving, equipment, etc. where exposed food will be handled must be washed with an effective cleaning compound followed by a potable water rinse to remove all traces of contamination. Food processing operations do not have to be stopped while applying a wet spray with care and in accordance with the directions and cautions above in those establishments which do NOT operate under Federal meat, poultry, shell egg grading and egg products inspection programs.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear: Coveralls worn over long-sleeved shirt and long pants; Chemical-resistant gloves, such as, Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton; Chemical-resistant footwear plus socks; Protective eyewear; Chemical-resistant headgear for overhead exposure; Chemical-resistant apron when cleaning equipment, mixing, or loading.

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

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.

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 apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where these are important resources. Apply this product only as specified on this label.

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 to sewer systems without previously notifying the local 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

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:

Chemical-resistant protective suit;

Chemical-resistant gloves, such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton;

Chemical-resistant footwear plus socks;

Protective Eyewear;

Chemical-resistant headgear for overhead exposure.

This concentrate is designed to be diluted with either water or oil before use. When diluting in water, prepare only the amount required for immediate use. Holding a water dilution more than 24 hours is not recommended. The resulting spray solution should be applied using good mechanical or compressed air fogging equipment.

USED ALONE: Use this concentrate alone as a clean-up spray or a re-harvest spray where other materials cannot be used because of pre-harvest restrictions.

Apply 12 to 36 ounces per acre and repeat if necessary to maintain effective control. Use in sufficient water (usually 100 gallons unless otherwise noted) for thorough coverage of upper and lower leaf surfaces.

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

USED IN COMBINATION WITH OTHER INSECTICIDES: This product may be used in combination with other insecticides for quicker and more complete kill where insect resistance may be a problem, and to flush or excite insects out of hiding and into contact with other spray residues. The application should conform to accepted use directions and precautions for both products.

This concentrate is relatively non-toxic to honey bees. To maximize this benefit apply in the morning or late in the evening.

ON GROWING CROPS: May be used on edible crops (out-doors or in greenhouses) up to and including day of harvest. Especially desirable as a clean-up or pre-harvest spray where other materials may not be used, due to residue restrictions.

GROWING CROPS OUTDOORS AND IN GREENHOUSES:

ROOT AND TUBER VEGETABLES: Including (but not limited to) Arracacha, Arrowroot, Purple Arrowroot, Japanese Artichoke, Jerusalem Artichoke, Beets, Sugar Beets, Edible Burdock, Carrots, Cassava (bitter or sweet), Celeriac (celery root), Chervil (turnip rooted), Chicory, Chuffa, 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 (but not limited to) Beet, Sugar Beet, Edible Burdock, Carrot, Cassava (bitter or sweet), Celeriac (celery root), Chervil (Turnip Rooted), Chicory, Dasheen, Parsnip, Radish, Japanese Radish (Daikon), Rutabaga, Black Salsify, Sweet Potato, Tanier, Turnip, Yam (true).

LEAFY VEGETABLES: Including (but not limited to) Amaranth (Leafy Amaranth, Chinese Spinach, Tampala), Arrugula, Celery, Celtuce, Chervil, Corn Salad, Chrysanthemum (edible leaved), Chrysanthemum (gardland), Cress (garden), Upland Cress (yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Fennel (Florence), Lettuce (head and leafy), Orach, Parsley, Purslane (garden & winter), Rhubarb, Spinach, Fine Spinach (Malabar, Ceylon), Spinach (New Zealand), Swiss Chard.

BRASSICA (COLE) LEAFY VEGETABLES: Including (but not limited to) 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): Including (but not limited to) 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, Chowder 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 Peas), Pigeon Peas, Soybeans.

FOLIAGE OF LEGUME VEGETABLES: Including (but not limited to) 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 (but not limited to) Eggplant, Ground Cherry, Okra, Pepinos, Pepper (Bell Pepper, Chili Pepper, Cooking Peppers, Pimentos, Sweet Peppers), Tomatillo, Tomatoes.

CUCURBIT VEGETABLES: Including (but not limited to) Balsam Pear (Bitter Melon), Chinese Waxgourd, 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: Including (but not limited to) Calamondin, Citrus Citron, Citrus Hybrids, Grapefruit, Kumquats, Lemons, Limes, Mandarin (Tangerine), Orange (sweet & sour), Pummelo, Satsuma Mandarin.

POME FRUITS: Including (but not limited to) Apple, Crabapple, Loquat, Pear, Oriental Pear, Quince.

STONE FRUITS: Including (but not limited to) Apricot, Cherry (sweet & sour), Nectarine, Peach, Plum, Prune, Chickasaw Plum, Damson Plum, Japanese Plum.

SMALL FRUITS AND BERRIES: Including (but not limited to) Blackberry, Blueberry, Cranberry, Currant, Dewberry, Elderberry, Gooseberry, Grape, Huckleberry, Loganberry, Olallie Berry, Raspberry (black & red), Strawberry, Youngberry.

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.

ADDITIONAL CROPS: Asparagus, Onions (bulb and green), Rice.

ORNAMENTALS: Including (but not limited to) 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 Palm, Peony, Petunia, Petunia, Philodendron, Pine, Roses, Snapdragon, Sweet Pea, Tulips, Viburnum, Yandering Jew, Yew, Zinnia.

FOR THE CONTROL OF INSECTS: Including (but not limited to) Ants, Aphids, Armyworms, Asparagus Beetle, Blister Beetles, Cabbage Looper, Caterpillars, Cockroaches, 12-spotted Cucumber Beetle, Colorado Potato Beetles, Corn Earworm, Crickets, Cross-striped Cabbageworm, Cucumber Beetles, Deer Fly, Diamondback Larvae, Fireworms, Flea Beetles, Fruit Flies, Fruitree Leafroller, Grape Leafhopper, Green Peach Aphids, Greenhouse Thrips, Gypsy Moth (adults & larvae), Harlequin Bug, Heliothis, Hornets, Horn Fly, Horse Fly, House Fly, Imported Cabbageworm, Leafhopper, Leafrollers, Leafhoppers, Lice, Mexican Bean Beetle, Mosquitoes, Potato Leafhopper, Psyllids, Silverfish, Skippers, Stable Fly, Stink Bugs, Tabanids, Thrips, Vinegar Flies, Wasps, Webworms, Whiteflies and Yellowjackets.

FOR USE ON HARVESTED FRUITS AND VEGETABLES: To control Drosophila spp. and tephritid fruit flies dilute this concentrate at the rate of 1 part with 100 parts water (1 pint per 12.5 gallons or 6 tablespoons with 2 gallons water). Thoroughly mix the emulsion in the spray tank and treat as follows:

- 1) Apply liberally to tomatoes and fruits in baskets, on trucks and in plants. Use sprayers at a high pressure for applying at the rate of five or six pints of diluted spray to a 2 ton load of produce. Direct the spray for maximum coverage of the baskets or hampers. It not only kills the flies, but the emulsion loosens any dead flies so they are readily washed from the fruit.
2. Spray the raw stock stacked in the yard.
3. Dip baskets in the diluted spray, after dumping the produce to kill adhering larvae and pupae.

FOR USE IN CANNERIES: The entire space inside of the cannery should be sprayed after washing and cleaning up and just before bringing produce into it, with this product diluted 1 part to 9 parts of water (1 quart with 9 quarts of water) up to 1 part to 4 parts of water (1 quart with 1 gallon of water). Use 1 gallon of the spray per 750 square feet, directing it on walls, ceiling, and floors paying special attention to forcing the spray into all cracks and crevices for the control of ants, roaches, silverfish, crickets, spiders and cheese mites. This same dilution used as a space spray will give excellent control of fruit flies, house flies, hornets, grain moths, gnats, mosquitoes, and skipper flies. Use on ounce dilute spray per 1000 cubic feet of space. Do not spray while the plant is in operation as dead flies may fall into containers or the products being processed.

FOR USE IN FOOD AND NONFOOD AREAS OF FOOD PROCESSING PLANTS, INDUSTRIAL AND INSTITUTIONAL BUILDINGS AND WAREHOUSE, AS AN INDOOR SPRAY: To kill flying insects such as fruit flies, house flies, hornets, wasps, grain moths, gnats, mosquitoes and skipper flies, dilute this concentrate at the rate of 1 part with 9 parts water (1 quart with 9 quarts of water) up to 1 part to 4 parts water (1 quart with 1 gallon of water). Use at the rate of 1/2 to 1 ounce of dilute spray per 1000 cubic feet of space. Direct the space treatment upward and whenever practical, keep doors and windows closed for at least 10 minutes after application.

Where oil residues are not undesirable, this product can be diluted in deodorized base oil instead of water at the rates as above and applied by means of any good mechanical fogger capable of producing particles of aerosol size.

FOR USE IN STORAGE SITES: Clean warehouse bins, cribs, trucks, cargo ships or other types of storage thoroughly by sweeping out the waste grain, cobwebs and other debris on the floors, walls, doorframes and rafters, paying close attention to the material lodged in the cracks and crevices. These accumulations should be removed and burned to kill all stages of insects that might be present.

In mills and elevators, all grain infested accumulations should be removed from the bin hoppers. Conveying equipment should also be cleaned and made free of trash deposits that could maintain infestation. For farms, particular attention should be given to cleaning up around the used feed and grain bags, grain residues from wagons, harvesting equipment and food troughs. All carry-over grain stocks not treated with grain protectant should be fumigated. Newly harvested grain should not be placed in the same bin with carry-over grain. These cleaning operations should be completed within three weeks before harvest.

After above sanitation measures have been employed, use diluted concentrate at the rate of 1 gallon diluted spray per 750 square feet on floors, walls, ceilings and partition crevices. Dilution rates: 1 part concentrate with 4 to 9 parts water, depending on severity of infestations.

FOR USE ON LIVESTOCK:

- 1) To kill deer flies, horse flies and stable flies, dilute at the rate of 1/3 to 2/3 pint per gallon of water. Apply to thoroughly wet the hair (1 quart per adult animal), with particular attention to the legs, flanks, barrel, topline and other body areas commonly attacked by these flies. Repeat treatment weekly as needed.
- 2) To kill gnats, horn flies, house flies and mosquitoes, dilute at the rate of 6 to 12 fluid ounces per gallon of water. Apply to thoroughly wet the hair, with particular attention to flanks, withers, topline, underline 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.
- 3) To kill fleas and ticks on livestock and pets, and protect against reinfestation, dilute at the rate of 9 fluid ounces per gallon of water. Wet the animal by dipping or spraying. For best results, also treat animal quarters and bedding.
- 4) To control sheep ked, dilute at the rate of 6 to 12 fluid ounces per 4 gallons of water. Apply to 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.
- 5) To control biting and sucking lice and ticks on cattle, goats, hogs, horses and sheep, dilute at the rate of 1 quart per 75 gallons of water (1 tablespoon per 1 gallon). Spray to thoroughly wet the hair of the animal including the head and tail. Repeat treatment in 10 days to kill newly hatched lice.
- 6) To control poultry lice, dilute at the rate of 6 to 18 fluid ounces per gallon of water. Spray roosts, walls and nests or cages thoroughly, followed with a fine mist of spray over the birds.
- 7) To control mites and bedbugs on poultry and in poultry houses, dilute at the rate of 6 to 18 fluid ounces per gallon of water. Spray crevices of roost poles, cracks in walls and nests where mites and bedbugs hide, followed with a fine mist of spray over the birds.

FOR USE IN BARN, DAIRIES, MILKING PARLORS, MILKING ROOMS AND POULTRY HOUSES: To control flies, gnats and mosquitoes, dilute at the rate of 1 part per 9 parts of water. Apply as a fog or fine mist (at approximately 2 ounces per 1000 cubic feet of space), directing the spray toward the ceiling and upper corners, and not directly towards the animals or birds. For best results, close doors and windows before spraying, and keep them closed for 10 to 15 minutes. Applicator should vacate in treated area and ventilate it prior to returning. Repeat application as needed.

MOSQUITO CONTROL, OUTDOORS: To control adult mosquitoes, using ground application, dilute 1 part concentrate in 7 parts of water or oil. Apply as a fine mist or fog. Treat shrubbery and vegetation where mosquitoes may rest. Shrubby and vegetation around stagnant pools and marshy areas may be treated. Application of this product to any body of water is prohibited. Repeat as necessary, usually once or twice a week.

With mobile or truck-mounted equipment, the above application rate will result if a 400-foot swath is treated, traveling at 15 mph, dispensing spray at a rate of 40 gallons per hour.

Application using fixed wing aircraft: Use 6 to 12 ounces of concentrate in 4 gallons of water per acre.

To control mosquito larvae, dilute in oil at a rate of 1 part concentrate to 150 parts oil (5 pints in 50 gallons) and apply at a rate of 20 to 25 gallons per acre. Apply as a coarse wetting spray to intermittently flooded areas, stagnant water, temporary rain pools and log pools.

Mix well in drum before sampling and each use.

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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 dispose of in a sanitary landfill or by other procedures approved by State and Local authorities.

Net Contents _____

Manufactured by:

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

EPA Reg. No. 1021-1340

EPA Est. No. 1021-MN-2