

APR 29 1993

3115434401
18/9

Mr. Joseph Synek
Formulation Development Labs. Inc.
13930 W. 108th Street
Lenexa, KS 66215

Dear Mr. Synek:

Subject: Amendment - Addition of Sites and Pests
Diatect Multipurpose Insecticide
EPA Registration No. 42850-2
Your Letter Dated January 25, 1993

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA sec. 3(c)(5) or FIFRA sec. 4 when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling changes listed below before you release the product for shipment:

- a. Add "Recommended for Commercial/Agricultural Use Only" to the top front panel. This is based upon addition of the commercial use sites tomatoes, grain protection, mushrooms production and mosquito control.
- b. As indicated in comment 2c in our letter dated December 4, 1990, the Statement of Practical Treatment should be corrected as follows:

IF SWALLOWED - Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching the back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

IF INHALED - Remove person to fresh air. Apply artificial respiration if indicated.

CONCURRENCES

SYMBOL	IF ON SKIN -	Remove contaminated clothing and wash affected areas with soap and water.
SURNAME		
DATE		

IF IN EYES - Flush eyes with plenty of water. Call a physician immediately, if irritation persists.

- c. Add the subheading, **Hazards to Humans and Domestic Animals**, under the heading **Precautionary Statements**.
- d. Change the heading "**Environmental Precautions**" to "**Environmental Hazards**".
- e. Add the heading **Storage and Disposal** above the storage and disposal statement. Revise the last disposal statement to read, "**Wrap empty flushed container and discard in trash.**"

3. Submit five copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

Sincerely yours,

George T. LaRocca
Product Manager 13
Insecticide-Rodenticide Branch
Registration Division (H7505C)

Enclosure

PH13 42850-2

3079

DIATECT MULTIPURPOSE INSECTICIDE

ACTIVE INGREDIENTS:

Pyrethrins.....	0.1 %
Piperonyl Butoxide *	1.0 %
Silicon Dioxide.....	89.3 %
INERTS.....	15.6 %

*Equivalent to 0.8% (butylcarbityl)(5-propylpiperonyl) ether and 0.2% related compounds.

Net Wt.: _____ Batch No. _____

EPA Reg. No. 42850-2 EPA Est. No. 50960-KS-1

CAUTION!

KEEP OUT OF REACH OF CHILDREN!

**DIATECT INTERNATIONAL, INC.
P.O. BOX 342
SMITHCENTER, KANSAS 66967**

See back panel for additional precautionary statements.

ACCEPTED
with COMMENTS
in EPA Letter Dated

APR 29 1993

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

42850-2

4/29/93

PRECAUTIONARY STATEMENTS!

CAUTION:

Avoid Contact with eyes and skin. In case of contact, immediately flush eyes and skin with water. Get medical attention if irritation persists. Use in adequate ventilation and avoid breathing dust. Use dust mask for prolonged periods of use. Wash hands thoroughly and after using and before smoking or eating.

STATEMENT OF PRACTICAL TREATMENT

First Aid Procedures:

- Eyes:** In case of contact immediate flush eyes with water. Get medical attention if irritation persists.
- Skin:** Wash material off the skin with plenty of soap and water. Get medical attention if redness or irritation persists.
- Inhalation:** Use product in adequate ventilation and avoid breathing the dust. Use a dust mask during prolong use periods.
- Ingestion:** Get medical attention immediately. Do not induce vomiting unless directed by a physician.

Always wash hands and face thoroughly after using the product and especially prior to smoking or eating.

ENVIRONMENTAL PRECAUTIONS!

This product is toxic to fish. Do not apply directly to any body of water. Do apply outdoors when weather conditions favor drift from the treatment area. Do not contaminate water by disposal of equipment wash trays. Apply this product only as specified on this label.

STORAGE: Store in original container in a cool dry place out of sunlight.

DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. If possible, flush container with water and use the water in application. Place flushed empty container into trash.

WARRANTY STATEMENT

Seller warrants that this product conforms to the ingredient statement on the label. Since conditions of use, such as weather, compatibility with other chemicals, and conditions of application equipment will vary, seller makes no claims other than those stated on this label.

5 of 9

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

GENERAL INFORMATION: Carefully follow the directions for each type of use. When used as directed, allowable tolerance levels will not be exceeded. This material may be used on edible crops growing outdoors or in greenhouses, up to and including the day of harvest. May be used where resistant insects are a problem. Use rates will vary with insect populations and adequate control should be obtained using one to six pounds per acre of the DIALTECT MULTIPURPOSE INSECTICIDE.

USE RATES FOR THE FRUITS, NUTS, VEGETABLES, FIELD CROPS, ORNAMENTALS AND MISC. CROPS. Use 1 to 6 pounds of product per acre depending upon the insect population. The material can be used either

As a **DUST**, the best results are obtained when the plants are wet or dew still remains on the leaf surface. It is suggested that the plants are misted prior to application to obtain the maximum benefits and use the least amount of product for control. Reapply only as necessary.

As a **WETTABLE POWDER**, apply in sufficient water to obtain maximum coverage. Dilution of the material should be at the rate of one half pound in a one half gallon of water or at a maximum of one pound to 25 gallons of water. It is best to keep the material agitated during application. Apply the material uniformly to both the upper and lower leaf surfaces.

Reapply only as necessary. Rates will vary with insect populations, but adequate control can be obtained at one to six pounds product per acre.

DIRECTIONS FOR USE

GRASSES, LAWNS & TURF: (including Golf Courses) Controls Armyworms, Caterpillars, Cinch Bugs, Cutworms, Fleas, Ants, Fireants and Ticks.

USE RATE: Use 16 oz. (1 lb.) per 1000 square feet of area. Apply either as a Dust or as a Wettable Powder. Use of a hose end sprayer for lawns, add a small amount of water to the jar and add the amount needed for the measured area, stir to make a slurry, then add the remaining water to the top of the jar. Empty entire contents of the jar on the premeasured area.

ANIMAL QUARTERS: (including and not limited to Barns, Dairies, Milkrooms, Pet Kennels, Poultry Houses, Runs and Stables.

Controls Gnats, Fleas, Flies, Lice, Mites, Mosquitoes and Ticks.

USE RATE: Use at the rate of 2 oz. per 100 square feet of surface area. Apply with a hand or power duster or sprayer or other suitable means to the hiding places where the pests are found. Repeat the treatment as necessary to maintain control. Do not use this product directly on pets.

6079

DIRECTIONS FOR USE

VEGETABLE CROPS:

FOR THE CONTROL OF INSECTS SUCH AS: Aphids, Leafhoppers, Mexican Bean Beet's, 12 spotted Cucumber Beetle, Army worms, Beet Webworms, Blister Beetles, Cabbage Looper, Cabbage Worms, Caterpillars, Cutworms, Flea Beetles, Colorado Potato Beetle, Corn Earworm, Cucumber Beetles, Diamond Back Moth Larva, European Corn Borer, Flea Beetles, Garden Fleahoppers, Harlequin Bugs, Imported Cabbageworms, Japanese Beetles, Leafhoppers, Leaf miners, Leaf-tiers, Loopers, Lygus Bugs, Mites, Oblique-banded Leafrollers, Plant Bugs, Stink Bugs, Squash Vine Borers, Thrips, Vegetable Weevils, Webworms and White Flies.

Growing Crops (Outdoors and 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 & Sweet), Celery (Celery Root), Chervil (Turnip Root), Chicory, Cholla, Dasheen, Ginger, Ginseng, Horseradish, Lard, Parsley (turnup rooted), Parsnip, Potato, Radish, Japanese Radish, Rutabaga, Salsify, Black Salsify, Sweet Potato, Tanier, Tarrow Root, Turmeric, Turnup, Yam, Yam Bean.

Leaves of Root and Tuber Vegetables: Including but not limited to Beet, Sugar Beet, Edible Burdock, Carrot, Cassava (Bitter & Sweet), Celery, Chervil, Chicory, Dasheen, Parsnip, Radish, Japanese Radish, Rutabaga, Black Salsify, Sweet Potato, Tanier, Turnup, and Yam (True).

Bulb Vegetables: Including but not limited to Garlic, Leek, Onion (Bulb an Green), Shalot.

Leafy Vegetables: Including but not limited to Amaranth, leafy Amaranth, Chinese Spinach, Tampala, Arrugula, Celery, Celluce, Cheryll, Chantro, Corn Salad, Chrysanthemum (edible leaves), Chrysanthemum garland, Cress (garden), Upland Cress (yellow rocket winter cress), Dandelion, Dock, Endive, Fennel, Lettuce (Head and Leafy), Orzch, rslsy, Purslane (garden and winter), Rhubarb, Spinach, Fine Spinach (Metabar Cylon), Spinach (New Zealand), Swiss Chard.

BRASSICA (COLE) Leafy Vegetables: Including but not limited to Broccoli, Chinese Broccoli, Broccoli Raab, Brussel Sprouts, Cabbage, Chinese Cabbage (Bok Choy, Napa), 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, French Beans, Kidney Beans, Lima Beans, Moth Beans, Mung Beans, Navy Beans, Pinto 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, Jack beans (Sword Beans), Lablab s (Hycacinth Beans), Lentils, Peas (Garden peas, field peas, sugar peas,) Pigeon Peas, Soybeans.

Foliage of Legume Vegetables: including but not limited to plant parts 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 Pepper, 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, Cantalope, Casaba, Crenshaw, Honeydew melons, Honey Bell, Mango Melon, Muskmelon, Persian Melon, Pumpkin, Squash (summer & winter) Watermelon including hybrids.

7 of 9

DIRECTIONS FOR USE

FRUIT, NUT, VINE CROPS and ORIENTAL VEGETABLES

For the Control of such insects as: Armyworms, Aphids, Blueberry Maggots, Cabbage Loopers, Caterpillars, Cherry Fruit Flies, Cutworms, Fireworms, Fruit Flies, Fuller Rose Beetle, Gooseberry Fruit Worms, Imported Current Worms, Japanese Beetles, Leafhoppers, Mites, Peach Borers, Pecan Weevil, Red-necked Borers, Raspberry Fruit Worms, Rose Chafer, Stink Bugs, Strawberry Leaf Rollers, Thrips, Weevils, and White Flies.

CITRUS FRUITS: Including but not limited to Calamondin, Citrus Citron, Citrus Hybrids, Grapefruit, Kumquats, Lemon, Limes, Mandarin (Tangerine), Orange (sweet & sour), Pummelo, and Satsuma Mandarin.

STONE FRUITS: Including but not limited to Apple, Crabapple, Loquat, Pear, Oriental Pear and Quince.

STONE FRUITS: Including but not limited to Apricot, Cherry (sweet & sour), Nectarine, Peaches, Plums, Prunes, Chicasaw Plums, Damson Plum, and Japanese Plum.

SMALL FRUITS And BERRIES: Including but not limited to Blackberry, Blueberry, Boysenberry, Cranberry, Currants, Dewberry, Elderberry, Gooseberry, Grape, Huckleberry, Loganberry, Oatlike Berry, Raspberry (black and red), Strawberry and Youngberry.

SUBTROPICAL FRUITS: Including but not limited to Avocado, Banana, Carob, Barbados Cherry, Cherimoya, Dates, Feijoa, Figs (Adriatic, Calimyrna, Kadota, Black Mission, California Brown Turkey, Brunswick,) Guava, Kiwifruit, Lychee, Mango, Papaya, Passion Fruit, Persimmon, Pineapple, Pomegranate.

TREE NUTS: Including but not limited to Almond, Beech Nut, Brazil Nut, Butter Nut, Cashews, Chestnut, Chinquapin, Filbert (Hazelnut), Hickory Nut, Japanese Horsechestnut, Macadamia Nut (Bushnut), Pecan, Pistachio, Walnut (Black and English).

ORIENTAL VEGETABLES: Including but not limited to Japanese Artichoke, Chinese Broccoli (Gai Lon) Chinese Cabbage (Bok Choy Napa), Chinese Mustard Cabbage (Sal Choy), Cilantro, Dasheen, Ginger, Ginseng, Chinese Longbeans, Mung Beans, Citron Melon, Balsam Pear (Bitter Melon) Japanese Radish (Daikon), Chinese Spinach, and Chinese Waxgourd.

DIRECTIONS FOR USE

HERBS, SPICES AND SPECIALTY CROPS:

FOR THE CONTROL OF SUCH INSECTS AS: Aphids, Loopers, Mites, Plant Bugs, Thrips and White Flies.

HERBS AND SPICES: Including but not limited to Anise, Balm, Basil, Burnel, Borage, Cinnamon, Caraway, Catnip, Chives, Clary, Coriander, Costmary, Cumin, Curry Leaf, Dill, Fennel (Italian & Sweet), Fenugreek, Horshound, Hyssop, Marigold (Sweet & Wild), Mint, Nasturtium, Oregano, Pennyroyal, Rosemary, Rue, Sage, Savory (Winter and Summer), Sweet Bay (Bay Leaf), Tansy, Taragon, Thyme, Wintergreen, Woodruff, Wormwood.

SPECIALTY CROPS: Such as Artichoke, Chayote, Asparagus, Coffee, Cotton, Hops, Jojoba, Ornamental Turf Grass, Sesame, Sunflower (leaves and seed) and Tea.

FIELD GRAIN CROPS:

FOR THE CONTROL OF INSECTS SUCH AS: Aphids, Armyworms, Cinch Bugs, Boll Weevil, Bollworm, Budworm, Caterpillars, Corn Earworms, Fleabeetles, Fleahoppers, Flies, HornWorms, Loopers, Lygus Bugs, Midges, Mites, Pear Curculia, Pink Boll Worms, Thrips and White Flies.

CEREAL GRAINS: Including but not limited to Barley, Buckwheat, Corn, Millet (proso & pearl), Oats, Popcorn, Rice, Rye, Sorghum (Milo), Teosinte, Trilicale, Wheat and Wild Rice.

GRASS FORAGE, FODDER AND HAY: Including but not limited to Bermuda Grass, Blue Grass, Bromegrass, Fescue, and any type grass, Gramineae Family (green or cured), Barley, Buckwheat, Corn, Millet (proso & pearl), Oats, Popcorn, Rice, Rye, Sorghum (Milo), Teosinte, Trilicale, Wheat, Wild Rice, that will be fed to or grazed by livestock, all pasture and range grasses and grasses grown for hay or silage.

Non-GRASS ANIMAL FEEDS: Including but not limited to Alfalfa, Velvet Bean, Clover, Kudzu, Lespedeza, Lupine, Saintoin, Trefoil, Vetch, Crown Vetch and Milk Vetch.

ORNAMENTALS:

FOR THE CONTROL OF INSECTS SUCH AS: Aphid, Armyworms, Cinchbugs, Caterpillars, FleaBeetles, Fleahoppers, Flies, Fruit Flies, Japanese Beetles, Leafhoppers, Leafminers, Leafrollers, Loopers, Lygus Bugs, Mealy Bugs, Mites, Plant Bugs, Thrips, and White Flies.

ORNAMENTALS: Such as African Violets, Aster, Azalea, Begonia, Calceolaria, Calendula, Calla, Camelia, Carnation, Cineraria, Chrysanthemum, Cypress, Daffodil, Dahlia, Dogwood, Elm, Eucalyptus, Fern, Ficus, Geranium, Gladiolus, Gypsophila, Holly, Juniper, Lily, Marigold, Oak, Palm, Peony, Petunia, Philodendron, Pine, Rosas, Snapdragons, Sweetpea, Tulips, Viburnum, Wandering Jew, Yew and Zinna.

9079

DIRECTIONS FOR USE

ON HARVESTED TOMATOES AND FRUIT (including Grapes): Fruit Flies, Vinegar Flies. To control these insects apply with a hand or power duster or sprayer (or other suitable means) to tomatoes and fruits in baskets, on trucks or in plants; raw stock stacked in the yard. Apply liberally at the rate of 5 ounces per 100 sq. ft. of area.

AS A GRAIN PROTECTANT: To protect against grain storage insects, dilute one pound in 5 gallons of water. Apply directly to the grain at a rate of 4 to 5 gallons of dilution per 1000 bushels as the grain is carried along a belt or as it enters the auger or elevator. Monthly inspections should be made. If the top two or three inches are found to be reinfested, retreat, applying at the rate of 1 to 2 gallons of dilution per 1000 bushels of stored product.

IN MUSHROOM PRODUCTION AND PROCESSING: Mushroom Flies, Fungus Gnats. Apply dilution at a rate of 5 ounces per 1,000 cubic feet of space. Direct Spray 8 to 10 feet away from beds and slightly upwards over beds. Keep circulating fans running but turn off refrigerators during application. In processing plants, use at the rate of 5 ounces per 2,000 cubic feet of space.

MOSQUITO CONTROL: May be used on croplands as an adulticide to protect agricultural workers during harvesting. Use at 2 to 12 ounces per acre when applied by fixed wing aircraft, helicopters or truck mounted equipment. Do not apply in a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treat areas until sprays have dried.