

PL 13 428-2-2 PS 1/4

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUL 28 1995

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

~~6787 / 482861~~
12

Dear Mr. Synek:

Subject: 8 Month Response to the Silicon Dioxide/Silica Gel
Reregistration Eligibility Document (RED)
Diatect Multipurpose Insecticide
EPA Registration Number 42850-2
Your Submission Dated February 8, 1995

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. Based on the acute toxicity profile, revise the Hazards to Humans and Domestic Animals statements and the IF ON SKIN statement as follows:

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Use adequate ventilation and avoid breathing dust.

IF ON SKIN: Wash with plenty of soap and water. get medical attention if irritation persists.

b. Under the Personal Protective Equipment, delete coveralls.

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

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5. All the acute toxicity data submitted are acceptable and have been assigned the following toxicity categories:

<u>STUDY</u>	<u>STUDY CLASSIFICATION</u>	<u>TOXICITY CATEGORY</u>	<u>MRID NUMBER</u>
Acute Oral	Acceptable	IV	435564-01
Acute Dermal	Acceptable	III	435564-01
Acute Inhalation	Acceptable	IV	427520-02
Eye Irritation	Acceptable	III	435564-02
Dermal Irritation	Acceptable	IV	435564-02
Dermal Sensitization	Acceptable	Non-sensitizer	427520-04

A copy of the review is enclosed for your records.

Sincerely yours,

George T. LaRocca
Product Manager 13
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosure

PRECAUTIONARY STATEMENTS!

HAZARDS TO HUMANS AND DOMESTIC ANIMALS.

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.

User Safety Recommendations:

User 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 outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothes.

PERSONAL PROTECTIVE EQUIPMENT:

Applicators and other handlers must wear coveralls or long-sleeved shirt and pants, waterproof gloves, shoes & socks and a dust/mist filtering respirator (MSHA/NIOSH) approved number prefix TC-21C.

Follow manufacturer's instructions for cleaning and maintaining Personal Protective Equipment. If no instructions for washables are given, use detergent and hot water. Keep and wash Personal Protective Equipment separately from other laundry.

ENVIRONMENTAL HAZARDS!

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

STORAGE AND DISPOSAL

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 container. If possible, flush container with water and use the water in application. Wrap empty flushed container and discard in trash.

WARRENTY 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.

DIATECT MULTIPURPOSE INSECTICIDE

ACTIVE INGREDIENTS:

Pyrethrins..... 0.1 %
Piperonyl Butoxide..... 1.0 %
Silicon Dioxide..... 83.3 %

INERTS 15.6 %

*Equivalent to 0.8% (butylcarbitol)
(6-propylpiperonyl) ether and 0.2% related compounds.

KEEP OUT OF REACH OF CHILDREN!

CAUTION!

STATEMENT OF PRACTICAL TREATMENT First Aid Procedures.

- 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.
- IF ON SKIN.** Wash affected areas with soap and water.
- IF IN EYES.** Flush eyes with plenty of water. If irritation persists, call a physician immediately.

Diatect International, Inc.
P.O. Box 342
Smith Center, Kansas 66557

EPA Reg. No. 42850-2
EPA Est. No. 58980-KS-1
Net Wt. _____
Batch No. _____

SEE BACK PANEL FOR
ADDITIONAL ~~DISCUSSION~~
with COMMENTS
in EPA Letter Dated

JUL 28 1995

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

42 P-50-2

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 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 plants, soil or water, is: Coveralls, waterproof gloves and shoes and socks.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, 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 only require uses of this product that are covered by the Worker Protection Standard.

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. Keep unprotected persons, children and pets out of the treated area until sprays have dried.

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. PPE required for early entry to treated areas prior to the time the sprays have dried, that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is: long sleeved shirt and long pants, waterproof gloves and shoes and socks. Use rates will vary with insect populations and adequate control should be obtained using one to six pounds per acre of the DIATECT 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 be 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 in 25 gallons of water. It is best to keep the material agitated during application. Apply the material uniformly to both the upper and lower 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.

BEST COPY AVAILABLE

DIATECT MULTIPURPOSE INSECTICIDE

DIRECTIONS FOR USE

VEGETABLE CROPS

FOR THE CONTROL OF INSECTS SUCH AS: Aphids, Leafhoppers, Mexican Bean Beetle, 12 spotted Cucumber Beetle, Army worms, Beet Webworms, Beetle Beetles, Cabbage Looper, Cabbage Worms, Caterpillars, Celery Leafhoppers, 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, Leafhoppers, Looper, Lygus Bugs, Mites, Oblique-banded Leafhoppers, 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 Artichoke, Arrowroot, Purple Arrowroot, Japanese Artichoke, Jerusalem Artichoke, Beets, Sugar Beets, Edible Burdock, Carrots, Cassava (Bitter & Sweet), Cerrotic (Celery Root), Chervil (Turnip Root), Chicory, Cholla, Dashen, Ginger, Ginseng, Horseradish, Lemn, Parsley (turnip rooted), Parsnip, Potato, Radish, Japanese Radish, Rutabaga, Salsify, Black Salsify, Sweet Potato, Taro, Turnip, 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, Dashen, Parsnip, Radish, Japanese Radish, Rutabaga, Black Salsify, Sweet Potato, Taro, Turnip, and Yam (True)

Bulb Vegetables: Including but not limited to Garlic, Leek, Onion (Bulb or Green), Shallot

Leafy Vegetables: Including but not limited to Amaranth, leafy Amaranth, Chinese Spinach, Tansho, Arugula, Celery, Celuce, Chervil, Chiro, Corn Salad, Chrysanthemum (edible leaves), Chrysanthemum garland, Cross (garden), Upland Cress (yellow rocket winter cress), Dandelion, Dock, Endive, Fennel, Lettuce (Head and Leaf), Orach, Parsley, Purslane (garden and winter), Rhubarb, Spinach, Fire Spinach (Malabar Ceylon), Spinach (New Zealand), Swiss Chard

BRASSICA (COLE) Leafy Vegetables: Including but not limited to Broccoli, Chinese Broccoli, Broccoli Raab, Brussels 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, Mung Beans, Navy Beans, Pinto Beans, Runner Beans, Snap Beans, Topy Beans, Urd Beans, Wax Beans, Asparagus Beans, Black eyed Peas, Calong, Chinese Longbeans, Cowpeas, Crowder Peas, Southern Peas, Yard-Longbeans, Broad Beans, Fava Beans, Chick Peas (Garbanzo Beans), Guar, Jack beans (Sword Beans), Lablab (Hyacinth 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, Peppers, Pepper (Bell Pepper, Chih Pepper, Cooking Pepper, Pimentos, Sweet Pepper), Tomato, Tomatoes

Cucurbit Vegetables: Including but not limited to Balsam Pear (Bitter Melon), Chinese Watermelon, Citron Melon, Cucumber, Zucchini, Edible Gourds, Melons including hybrids, Cantaloupe, Casaba, Greenhew, Honeydew melons, Honey Balls, Mango Melon, *Watermelon, Persian Melon, Pumpkin, Squash (summer & winter), Watermelon including hybrids

ORNAMENTALS

FOR THE CONTROL OF INSECTS SUCH AS: Aphids, Armyworms, Cicadas, Caterpillars, Flea Beetles, Fleahoppers, Flies, Fruit Flies, Japanese Beetles, Leafhoppers, Leafminers, Leafrollers, Looper, Lygus Bugs, Mealy Bugs, Mites, Plant Bugs, Thrips, and White Flies

ORNAMENTALS: Such as African Violets, Aster, Asclepias, Begonia, Calceolarias, Candelabra, Calla, Camellia, Carnation, Cineraria, Chrysanthemum, Cypress, Daffodil, Dahlia, Dogwood, Elm, Eucalyptus, Fern, Ficus, Geranium, Gladiolus, Gypsophila, Holly, Juniper, Lily, Marigold, Oak, Palm, Peony, Petunia, Philodendron, Rose, Rose Snapdragon, Sweetpea, Tulip, Viburnum, Wandering Jew, Yew and Zinnia

HERBS, SPICES AND SPECIALTY CROPS

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

HERBS AND SPICES: Including but not limited to Anise, Basil, Basil, Burnel, Boraga, Camomile, Caraway, Cardigan, Chives, Curry, Coriander, Costmary, Cumin, Curry Leaf, Dill, Fennel (Italian & Sweet), Fenugreek, Horsehound, Hyssop, Marigold (Sweet & Wild), Mint, Nasturtium, Oregano, Pennyroyal, Rosemary, Rue, Sage, Savory (Winter and Summer), Sweet Bay (Lay Leaf), Tansy, Tarragon, Thyme, Wintergreen, Woodruff, Wormwood

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

FIELD GRAIN CROPS

FOR THE CONTROL OF INSECTS SUCH AS: Aphids, Armyworms, Cicada Bugs, Boll Weevil, Bollworm, Budworm, Caterpillars, Corn Earworms, Fleabeetles, Fleahoppers, Flies, Hornworms, Looper, Lygus Bugs, Midges, Mites, Pear Curculio, 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), Teosinta, Trillcala, Wheat and Wild Rice

GRASS FORAGE, FODDER AND HAY: Including but not limited to Bermuda Grass, Blue Grass, Bromegrass, Fescue, and any type grass, Graminose Family (green or cured), Barley, Buckwheat, Corn, Millet (proso & pearl), Oats, Popcorn, Rice, Rye, Sorghum (Milo), Teosinta, Trillcala, 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, Trefoli, Vetch, Crown Vetch and Milk Vetch

FRUIT, NUT, VINE CROPS and ORIENTAL VEGETABLES

For the Control of such insects as: Armyworms, Aphids, Blueberry Maggot, Cabbage Looper, 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 Hybrid, Grapefruit, Kumquats, Lemon, Lime, Mandarin (Tangerine), Orange (sweet & sour), Pummelo, and Satsuma Mandarin

POME 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, Chickasaw 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, Otallie Berry, Raspberry (black and red), Strawberry and Youngberry

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

TREE NUTS: Including but not limited to Almond, Beech Nut, Brazil Nut, Butter Nut, Cashew, 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 (Gai Choy), Cilantro, Dashen, Ginger, Ginseng, Chinese Longbeans, Mung Beans, Citron Melon, Balsam Pear (Bitter Melon), Japanese Radish (Daikon), Chinese Spinach and Chinese Watermelon

SEE FRONT PANEL FOR ADDITIONAL INFORMATION AND DIRECTIONS

BEST COPY AVAILABLE

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

12/

Dear Mr. Synek:

Subject: 8 Month Response to the Silicon Dioxide/Silica Gel
Reregistration Eligibility Document (RED)
Diatect Multipurpose Insecticide
EPA Registration Number 42850-2
Your Submission Dated February 8, 1995

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. Based on the acute toxicity profile, revise the Hazards to Humans and Domestic Animals statements and the IF ON SKIN statement as follows:

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Use adequate ventilation and avoid breathing dust.

IF ON SKIN: Wash with plenty of soap and water. get medical attention if irritation persists.

b. Under the Personal Protective Equipment, delete coveralls.

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

- c. Revise the Environmental Hazards to read as follows:

This product is toxic to fish. Do not apply directly to any body of water. Do not apply when weather conditions favor drift from the treatment area. Do not contaminate when disposing of equipment washwaters.

- d. Place the box with the User Safety Recommendations between the Personal Protective Equipment and the Environmental Hazards sections.

- e. Under the Agricultural Use Requirements, make the following changes:

- Add the word **with** in the first sentence, "Use this product only in accordance with its labeling and **with** the Worker Protection Standard, 40 CFR part 170.
- The sentence, "Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.", which appears as the last sentence in the first paragraph in the Directions for Use, must be placed after the last sentence appearing in the Agricultural Use Requirements box.
- The following highlighted statement, which appears under the GENERAL INFORMATION, must be placed as the last sentence in the box: "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 plants, soil, or water is: coveralls; waterproof gloves and shoes plus socks."

3. With regards to the addition of livestock to the label, you must provide the EPA Reg. No. of a registered product similar to your product with the livestock use. Also you must provide an offer to pay statement for the additional use site. Therefore the livestock use is not included on the enclosed labeling.

4. 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.

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PRECAUTIONARY STATEMENTS:

HAZAROUS TO HUMANS AND DOMESTIC ANIMALS.

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.

User Safety Recommendations:

User 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 outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothes.

PERSONAL PROTECTIVE EQUIPMENT:

Applicators and other handlers must wear coveralls or long-sleeved shirt and pants, waterproof gloves, shoes & socks and a dust/mist filtering respirator (MSHA/NIOSH) approved number prefix TC-21C. Follow manufacturer's instructions for cleaning and maintaining Personal Protective Equipment. If no instructions for washables are given, use detergent and hot water. Keep and wash Personal Protective Equipment separately from other laundry.

ENVIRONMENTAL HAZARDS:

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

STORAGE AND DISPOSAL

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 container. If possible, flush container with water and use the water in application. Wrap empty flushed container and discard in trash.

WARRENTY 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.

DIATECT MULTIPURPOSE INSECTICIDE

ACTIVE INGREDIENTS:

Pyrethrins..... 0.1 %
 Piperonyl Butoxide..... 1.0 %
 Silicon Dioxide..... 83.2 %

INERTS..... 15.6 %

*Equivalent to 0.6% (butylcarbamyl) (5-propylpiperonyl) ether and 0.2% related compounds.

KEEP OUT OF REACH OF CHILDREN!

CAUTION

STATEMENT OF PRACTICAL TREATMENT

First Aid Procedures:

- 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 IRRITATED:** Remove person to fresh air. Apply artificial respiration if indicated.
- IF ON SKIN:** Wash affected areas with soap and water.
- IF IN EYES:** Flush eyes with plenty of water for 15 minutes. Call a physician immediately.

Diatect International, Inc.
 P.O. Box 342
 Smith Center, Kansas 67097

EPA Reg. No. 42959-02
 EPA Est. No. 15969-02-1
 807-571-2100
 Batch No. 1

SEE BACK PANEL FOR
 ADDITIONAL INFORMATION
 with COMMENTS
 in EPA Letter Dated

JUL 28 1995

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

42 PSC-2

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 responsible for pesticide regulations. 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 plants, soil or water, is: Coveralls, waterproof gloves and shoes and socks.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, 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 only require uses of this product that are covered by the Worker Protection Standard.

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. Keep unprotected persons, children and pets out of the treated area until sprays have dried.

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. PPE required for early entry to treated areas prior to the time the sprays have dried, that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is: long sleeved shirt and long pants, waterproof gloves and shoes and socks. Use rates will vary with insect populations and adequate control should be obtained using one to six pounds per acre of the DIATECT 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. Dilutions 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 one gallon 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.

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4 of 4

DIRECT MULTIPURPOSE INSECTICIDE DIRECTIONS FOR USE

VEGETABLE CROPS

FOR THE CONTROL OF INSECTS SUCH AS: Aphids, Leafhoppers, Mexican Bean Beetle, 12 spotted Cucumber Beetle, Armyworms, Beet Webworms, Blister Beetles, Cabbage Looper, Cabbage Worms, Caterpillars, Celery Leafhoppers, Colorado Potato Beetle, Corn Earworm, Cucumber Beetles, Diamond Back Moth Larva, European Corn Borer, Flea Beetles, Garden Fleahopper, Harlequin Bug, Imported Cabbageworms, Japanese Beetles, Leafhoppers, Leaf miners, Leafhoppers, Loopers, Lygus Bugs, Mites, Oblique-banded Leafhoppers, 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), Celeriac (Celery Root), Chervil (Turnip Root), Chicory, Chorus, Dasheen, Ginger, Ginseng, Horseradish, Lard, Parsley (Turnip rooted), Parsnip, Potato, Radish, Japanese Radish, Rutabaga, Salsify, Black Salsify, Sweet Potato, Taro, Turnip Root, Turners, Turnip, 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, Taro, Turnip, and Yam (True).

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

Leafy Vegetables: Including but not limited to Amaranth, leafy Amaranth, Chinese Spinach, Tansy, Arugula, Celery, Cefuse, Chervil, Chard, Corn Salad, Chrysanthemum (edible leaves), Chrysanthemum garden, Cross (garden), Upland Cross (yellow root winter cross), Dandelion, Dock, Endive, Fennel (Lettuce/Head and Leafy/Orach/Parsley, Parsnips/garden and winter), Rhubarb, Spinach, Fine Spinach (Metabolizer/Ceylon), Spinach (New Zealand), Swiss Chard.

BRASSICA (COLE) Leafy Vegetables: Including but not limited to Broccoli, Chinese Broccoli, Broccoli Raab, Brussels Sprouts, Cabbage, Chinese Cabbage (Bok Choy, Napa), Chinese Mustard Cabbage (Gai Choy), Cauliflower, Collards, Kale, Kohlrab, Mustard Greens, Rape Greens.

Legume Vegetables (Succulent or Dried): Including but not limited to Adzuki Beans, Field Peas, 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 bean/Sword Beans, Lablab (Hyacinth 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, Peppers, Pepper, Bell Pepper, Chili Pepper, Cooking Pepper, Pimentos, Sweet Pepper, Tomato, Tomatoes.

Cucurbit Vegetables: Including but not limited to Balsam Pear (Bitter Melon), Chinese Waxgourd, Citron Melon, Cucumber, Shrink, Edible Gourds, Melons including hybrids, Cantalope, Casaba, Greenstar, Honeydew melons, Honey Bells, Mango Melon, Muskmelon, Persian Melon, Pumpkin, Squash (summer & winter), Watermelon including hybrids.

ORNAMENTALS

FOR THE CONTROL OF INSECTS SUCH AS: Aphids, Armyworms, Caterpillars, Imported Cabbageworms, Fleahoppers, Fleas, Fruit Flies, Grasshoppers, Leafhoppers, Leafhoppers, Leafhoppers, Loopers, Lygus Bugs, Mites, Plant Bugs, Thrips, and White Flies.

ORNAMENTALS: Such as African Violets, Aster, Azalea, Begonia, Calla Lily, Camellia, Canna, Carnation, Chrysanthemum, Cissampelos, Cissampelos, Cypress, Dahlia, Dianella, Dogwood, Eucalyptus, Fuchsia, Gardenia, Geranium, Hibiscus, Hydrangea, Holly, Impatiens, Lily, Marigold, Oak, Palm, Persea, Petunia, Philodendron, Rhododendron, Rose, Sparganium, Strelitzia, Tulip, Yucca, Zinnia, and others.

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, Borago, Camomile, 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, Tarragon, 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, Horn Worms, Loopers, Lygus Bugs, Midges, Mites, Pear Curculionid, 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, Triticale, 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, Triticale, 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, Sainfoin, Trefol, Vetch, Crown Butch and Milk Vetch.

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 Beetle, Leafhoppers, Mites, Peach Borers, Pecan Weevil, Red-necked Borer, Raspberry Fruit Worms, Rose Chafers, 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, Chickasaw Plum, Damson Plum, and Japanese Plum.

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

TROPICAL FRUITS: Including but not limited to Avocado, Banana, Carob, Barbados Cherry, Cherimoya (Fruit), Feijoa, Figs (Adriatic, Callimyrna, 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, Cashew, Chestnut, Cinnamon, Filbert/Hazelnut, Hickory Nut, Japanese Horsechestnut, Macadamia Nut (Bushnut), Pecan, Pistio, 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 (Gai Choy), Cilantro, Dasheen, Ginger, Ginseng, Chinese Longbeans, Mung Beans, Citron Melon, Balsam Pear (Bitter Melon), Japanese Radish (Daikon), Chinese Spinach, and Chinese Waxgourd.

SEE FRONT PANEL FOR ADDITIONAL INFORMATION AND DIRECTIONS

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4 of 4

ACCEPTED

JAN 5 1996

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 42850-2

PRECAUTIONARY STATEMENTS!

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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.

User Safety Recommendations:

- User 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 outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothes.

PERSONAL PROTECTIVE EQUIPMENT:

Applicators and other handlers must wear coveralls or long-sleeved shirt and pants, waterproof gloves, shoes & socks and a dust/mist filtering respirator (MSHA/NIOSH) approved number prefix TC-21C. Follow manufacturer's instructions for cleaning and maintaining Personal Protective Equipment. If no instructions for washables are given, use detergent and hot water. Keep and wash Personal Protective Equipment separately from other laundry.

ENVIRONMENTAL HAZARDS!

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

STORAGE AND DISPOSAL

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 container. If possible, flush container with water and use the water in application. Wash empty flushed container and discard in 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.

DIATECT MULTIPURPOSE INSECTICIDE

ACTIVE INGREDIENTS

Table with 2 columns: Ingredient Name and Percentage. Includes Pyrethrins (0.1%), Piperonyl Butoxide (1.0%), and Silicon Dioxide (83.3%).

INERTS 15.6%

*Equivalent to 0.6% (butylcarbityl) (6-propylpiperonyl) ether and 0.2% related compounds

KEEP OUT OF REACH OF CHILDREN!

CAUTION!

STATEMENT OF PRACTICAL TREATMENT

First Aid Procedures:

- IF SWALLOWED: Call a physician or Poison Control Center immediately. Give 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.
IF ON SKIN: Wash affected areas with soap and water.
IF IN EYES: Flush eyes with plenty of water. If irritation persists, call a physician immediately.

Dialect International, Inc. P.O. Box 142 South Center, Kansas 67040

EPA Reg. No. 42850-2 EPA Est. No. 10001-01-0001

EPA Reg. No. 10001-01-0001

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 responsible for pesticide regulations. 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 plants, soil or water, is: Coveralls, waterproof gloves and shoes and socks.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, 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 only apply to uses of this product that are covered by the Worker Protection Standard.

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. Keep unprotected persons, children and pets out of the treated area until sprays have dried.

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. PPE required for early entry to treated areas prior to the time the sprays have dried, that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is: long sleeved shirt and long pants, waterproof gloves and shoes and socks. Use rates will vary with insect populations and adequate control should be obtained using one to six pounds per acre of the DIATECT MULTIPURPOSE INSECTICIDE.

USE RATES FOR THE FRUITS, NUTS, VEGETABLES, FIELD CROPS, ORNAMENTALS AND WILD CROPS

Use 1 to 6 pounds of wettable powder depending upon the insect population. The material can be used as a dust.

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 be 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. Division 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 2.5 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.

Use rates will vary with insect populations, but adequate control can be obtained at one to six pounds product per acre.

GRASSES (LAWNS & TURF, including Golf Courses), Corns, Amaranths, Celery, Fench, Dill, Carrots, Parsnips, Peas, Asa, Potatoes and Beans.

USE RATE: Use 16 oz. (1 lb) per 1000 square feet of area. Apply either as a dust or as a wettable powder. Use 1/2 lb. (8 oz) per 1000 sq. ft. 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 the entire contents of the jar on the premeasured area.

Mounds:

Mound Drench or Water Method: Use 0.6 lb. (12 tablespoons) to one gallon of water. For best results, saturate the perimeter of the mound (first working toward the center of the mound in a circular motion. (You may want the mixture to puddle). An 18" mound 12-14 inches diameter requires approximately one gallon of the mix.

Base and Sprayer: Use 16 oz. (1 lb) per 1000 square feet of area. Use a hose and 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 the entire contents of the jar on the premeasured area.

As a DUST: For best results, dust the perimeter of the mound first. With a stick disturb the mound then dust mound in a circular motion working toward the center until the entire mound is thoroughly dusted.

Ants, Fleas, Beetles, Flies and Ticks

Base and Sprayer: Use 16 oz. (1 lb) per 1000 square feet of area. Use a hose and 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 the entire contents of the jar on the premeasured area.

As a DUST: The best results are obtained when applied with a hand or power duster or other suitable means of application to the treated area. Apply lightly and uniformly to the treatment area.

Turf Sprayer: Use 0.6 lb. (12 tablespoons) to one gallon of water. It is best to keep the material agitated during application. Apply the contents to the premeasured area.

ANIMAL QUARTERS (INCLUDING but not limited to Barns, Stables, Milkrooms, Poultry Houses, Rums and Stables)

Control Gnat, Flea, Flyer, Lice, 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 large places where the pests are found. Repeat the treatment as necessary to maintain control. Do not use this product directly on pets.

On Harvested Tomatoes: A DUST including Orange Fruit Flies, Vinegar Flies. Apply with a hand or power sprayer or other suitable means to stems and leaf surfaces, on both sides of the leaves, in the wind. Apply about 1/2 lb. (8 oz) per 100 sq. ft. of area.

As a DUST: The best results are obtained when applied with a hand or power duster or other suitable means of application to the treated area. Apply lightly and uniformly to the treatment area. Repeat the treatment as necessary to maintain control. Do not use this product directly on pets.

As a WETTABLE POWDER: Apply in sufficient water to obtain maximum coverage. Division 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 2.5 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.

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 be 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. Division 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 2.5 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.

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Protect Multipurpose Insecticide

Directions For Use

Livestock:

Direct Application

Use as a dust in automatic, mechanical or hand dusting equipment and for refilling dust bags. To obtain protection for your dairy and beef cattle, horses, sheep, goats and hogs by controlling, killing, and repelling horn flies, house flies, stable flies, deer flies, mosquitoes, gnats, fleas, ticks and lice treat by dusting animal thoroughly with particular attention to the topline, underline, flanks and other infested areas. Repeat treatment as needed.

Dust Bag Application

Material can be placed into livestock self dusting bags and allow the livestock to treat themselves. Hang bag so the bottom is 18 to 24 inches from the ground. Do not hang bags over feed, mineral blocks or water. Best results are obtained when bags are placed in an area of forced use.

VEGETABLE CROPS:

FOR THE CONTROL OF INSECTS SUCH AS: Aphids, Leafhoppers, Mexican Bean Beetle, 12 spotted Cucumber Beetle, Army worms, Beet Webworms, Blister Beetles, Cabbage Looper, Cabbage Worms, Caterpillars, Celery Leafhoppers, 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, Leafhoppers, 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), Cereriac (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 or Green), Shallot.

Leafy Vegetables: Including but not limited to Amaranth, leafy Amaranth, Chinese Spinach, Tansai, Arugula, Celery, Celuce, Chervil, Chantro, Corn Salad, Chrysanthemum (edible leaves), Chrysanthemum garland, Cress (garden), Upland Cress (yellow rocket winter cress), Dandelion, Dock, Endive, Fennel, Lettuce (Head and Leafy) Orach, Parsley, Purslane (garden and winter), Rhabarb, Spinach, Fine Spinach (Metabar Ceylon), Spinach (New Zealand), Swiss Chard.

BRASSICA (COLE) Leafy Vegetables: Including but not limited to Broccoli, Chinese Broccoli, Broccoli Raab, Brussel Sprouts, Cabbage, Chinese Cabbage (Dok 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, Calijang, Chinese Longbeans, Cowpeas, Chowder Peas, Southern Peas, Yard-Longbeans, Broad Beans, (Fava Beans), Chick Peas (Garbanzo Beans) Guar, Jack beans (Sword Beans), Lablab (Hyacinth 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, Peppers, Pepper (Bell Pepper, Chili Pepper, Cooking Pepper, Pimentos, Sweet Peppers) Tomato, Tomatoes.

Cucurbit Vegetables: Including but not limited to Balsam Pear (Bitter Melon), Chinese Waxgourd, Citron Melon, Cucumber, Chervil, Edible Gourds, Melons including hybrids, Cantaloupe, Casaba, Crenshaw, Honeydew melons, Honey Balls, Mango Melon, Muskmelon, Persian Melon, Pumpkin, Squash (Summer & winter) Watermelon including hybrids.

ORNAMENTALS:

FOR THE CONTROL OF INSECTS SUCH AS: Aphids, Armyworms, Cicadabugs, Caterpillars, Flea Beetles, 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, Aralia, 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, Philodendron, Pine, Roses, Snapdragon, Sweetpea, Tulips, Viburnum, Wandering Jew, Yew and Zinnia.

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, Burnt, Borage, Camomile, Caraway, Catnip, Chives, Clary, Coriander, Costmary, Cumin, Curry Leaf, Dill, Fennel (Italian & Sweet), Fenugreek, Horsehound, 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, Hox, Jocko, Ornamental Turf Grass, Sesame, Sunflower (leaves and seed) and Tea.

FIELD GRAIN CROPS:

FOR THE CONTROL OF INSECTS SUCH AS: Aphids, Armyworms, Cig Bugs, Boll Weevil, Bollworm, Budworm, Caterpillars, Corn Earworms, Fleabeetles, Fleahoppers, Flies, Hornworms, Loopers, Lygus Bugs, Midges, Mites, Pear Curculion, 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), Teosinta, Trifolium, Wheat and Wild Rice.

GRASS FORAGE, FODDER AND HAY: Including but not limited to Bermuda Grass, Blue Grass, Bromegrass, Pecu, and any type grass, Graminaceo Family (green or cured), Barley, Buckwheat, Corn, Millet (proso & pearl), Oats, Popcorn, Rice, Rye, Sorghum (Milo), Teosinta, Trifolium, 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, Sainfoin, Trefoil, Vetch, Crown Vetch and Milk Vetch.

FRUIT, NUT, VINE CROPS and ORIENTAL VEGETABLES:

For the Control of such Insects as: Armyworms, Aphids, Blueberry Maggot, Cabbage Loopers, Caterpillars, Cherry Fruit Flies, Cutworms, Fireworms, Fruit Flies, Fuller Rose Beetle, Gooseberry, Fruit Worms, Imported Current Worm, Japanese Beetles, Leafhoppers, Mites, Peach Borers, Pecan Weevil, Red-necked Borer, Raspberry Fruit Worms, Rose Chafers, 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.

POME 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, Chickasaw 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, Otalis Berry, Raspberry (black and red), Strawberry and Youngberry.

SUBTROPICAL FRUITS: Including but not limited to Avocado, Banana, Cash, Barbados Cherry, Cherimoya, Dates, Feijoa, Figs (Adriatic, Callimyrna, Kadota, Black Mission, California Brown Turkey, Brunswick), Guava, Kiwifruit, Lychee, Mango, Papaia, 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, Pistato, Walnut (Black and English).

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

See Front Panel for Additional Information and Directions

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