



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

April 12, 2024

Jeremy D. Malone  
Imerys Filtration Minerals, Inc.  
C/O Spring Regulatory Sciences  
6620 Cypresswood Dr, Suite 250  
Spring, TX 77379

**Subject:** Label and CSF Amendment – Addition of Pistachios, Images Previously Approved via Label Notification on June 1, 2023, Other Improvements to the Master Label & Approval of New Basic CSF and New Alternate #1 CSF  
Product Name: Diafil® 610  
EPA Registration Number: 73729-1  
Application Dates: August 16, 2023 & September 30, 2023  
Case Numbers: 489035 & 491052

Dear Jeremy D. Malone:

The amended label and Confidential Statement(s) of Formula (CSFs) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, are acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Please note that the record for this product currently contains the following CSFs:

- Basic CSF dated September 29, 2023
- Alternate CSF #1 dated September 29, 2023

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Carmen Rodia via e-mail at [Rodia.Carmen@epa.gov](mailto:Rodia.Carmen@epa.gov).

Sincerely,



Tamica L. Cain, Product Manager 10  
Invertebrate & Vertebrate Branch 2  
Registration Division (7505T)

Enclosure:      *Stamped "Accepted" Master Label, dated April 12, 2024*

[Note to reviewer: [Text] in brackets denotes optional language]  
{Note to reviewer: {Text} in braces denotes notes to reviewer and explanatory language}  
{Label version date: 4/11/2024}

**SILICON DIOXIDE** | **GROUP** | **UNM** | **INSECTICIDE**

# MASTER LABEL

# Diafil® 610

[Alternate Brand Names: Celite® 610, Deadzone™, DEZONE™]

**ACTIVE INGREDIENT:**

Diatomaceous Earth, chemical composition consisting of:

Silicon Dioxide .....85.0%

**OTHER INGREDIENTS:** .....15.0%

**Total**.....100.0%

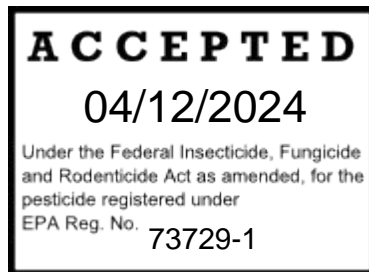
Contains 14.2 lbs of Silicon Dioxide per gallon of product

Net Weight: \_\_\_\_\_ lbs.

EPA Reg. No. 73729-1

EPA Establishment No. 073729-NV-001  
EPA Establishment No. 073729-MEX-002  
Batch Code:

IMERYS FILTRATION MINERALS, INC.  
2500 MIGUELITO RD.  
LOMPOC CA 93436



# SubLabel A – All Uses

# Diafil® 610

MECHANICAL INSECTICIDE

Effective and long lasting when kept dry.

Kills the following listed insects:

**Beetles:** Spotted Cucumber Beetle (southern corn rootworm), Asparagus Beetle, Bean Beetles, Blister Beetles, Carpet Beetle, Cigarette Beetle, Colorado Potato Beetle, Confused Flour Beetle, Driedfruit Beetle, Drugstore Beetle, Elm Leaf Beetle, Flea Beetles, Hide Beetle, Japanese Beetle, Mexican Bean Beetle, Red Flour Beetle, Sawtoothed Grain Beetle, American Spider Beetle, Yellow Mealworm

**Moths:** Angoumois Grain Moth, Artichoke Plume Moth, Codling Moth, Diamondback Moth (adults & larvae), Ponderosa Pine Tip Moth, Grapeleaf Skeletonizer, Gypsy Moth (adults & larvae), Indian Meal Moth, Mediterranean Flour Moth, Tobacco Moth, Pine Tussock Moth

**Weevils:** Boll Weevil, Carrot Weevil, Sweetclover Weevil, Pepper Weevil, Rice Weevil

**Flies, Gnats, Maggots:** Apple Maggot, Blow Flies, Cabbage Maggots, Cherry Fruit Fly (cherry maggot), Crane Flies, Fruit Flies, Fungus Gnats, Apple Maggot, Mushroom Fly, Olive Fruit Fly, Onion Maggot, Shore fly, Vinegar Fly, Whiteflies

**Worms, Slugs and Caterpillars:** Armyworm, Bagworm, Beet Armyworm, Cross-striped Cabbageworm, Cankerworms, Caterpillars, Corn Earworm (bollworm/tomato fruitworm), Dark Mealworm, Eastern Tent Caterpillar, Fireworms, Forest Tent Caterpillar, Cherry Fruitworm, Tobacco Hornworm, Green Fruitworm, Imported Cabbageworm, Lesser Mealworm, Navel Orangeworm, Pink bollworm, Potato Tuberworm, Saltmarsh caterpillar, Spotted Garden Slug, Tobacco Budworm, Tomato Fruitworm (bollworm/corn earworm), Tomato Hornworm, Tomato pinworm, Beet Webworm, Corn Root Webworm, Western Yellowstriped Armyworm

**Bugs, Scales and Plant Mites:** Armored Scale, Bed Bugs, Billbugs, Boxelder Bug, Clover Mite, Eriophyid Mite, Grain Mite, Grape Mealybug, Greenbug, Harlequin Bug, Lacebugs, Leafhopper, Citrus Mealybug, Proba bug, Tarnished Plant Bug, Tomato bug, Tomato Russet Mite, Soft Scale, Squash bug, Stink Bugs, Southern chinch bug, Sowbugs, Grape mealybug

**Aphids, Borers, Leafhoppers, Leaf miners, loopers and other insects as listed:** Ants (excluding Fire, Harvester, Carpenter and Pharaoh ants), Aphids, Bermudagrass Mirids, Twig Borers, Cabbage Looper, Cadelle, Chalcids, Cheese Skipper, Crickets, Mole Crickets, Earwigs, European Corn Borer, Fruittree Leafroller, Garden Symphylan, Glassy-winged Sharpshooter, Grape Leafhoppers, Grasshoppers, Green Peach Aphid, Greenhouse Thrip, Katydid, Leafhoppers, Leafminers, Leafrollers, Leaf-tiers, Loopers, Millipedes, Orange Tortrix, Pacific Flatheaded Borer, Pear Psylla, Potato Leafhopper, Psyllids, Shothole borer, Silverfish, Skippers, Springtails, Thrips.

## ACTIVE INGREDIENT:

Diatomaceous Earth, chemical composition consisting of:

Silicon Dioxide .....85.0%

**OTHER INGREDIENTS:** .....15.0%

**Total**.....100.0%

Contains 14.2 lbs of Silicon Dioxide per gallon of product

{Optional referral statements when booklets and container labels are used}

[See Panel for First Aid Instructions and [booklet for] [complete] Precautionary Statements [and Directions For Use].

[See label booklet for complete Precautionary Statements, [First Aid Instructions, ]Directions For Use, and Storage and Disposal.]

[See label booklet for additional Precautionary Statements, [First Aid Instructions, ]Directions For Use, and Storage and Disposal.]

[See label booklet for Complete Directions For Use.]

Net Weight:\_\_\_\_\_lbs.

IMERYS FILTRATION MINERALS, INC.  
2500 MIGUELITO RD.  
LOMPOC CA 93436

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

{Note to reviewer: First Aid section can be listed in table or paragraph format}

| <b>FIRST AID</b>  |   |
|---|---|
| <b>If In Eyes:</b>  | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul> |
| <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies, call the poison control center at 1-800-222-1222. For general information on this product, contact the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8 AM to 12 PM PST, or at <a href="http://npic.orst.edu">http://npic.orst.edu</a>.</p> |   |

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Use adequate ventilation and avoid breathing dust. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Mixers, loaders, applicators and other handlers must wear the following:**

- Long-sleeved shirt, long pants, shoes and socks;
- Gloves made of any waterproof material;
- Wear protective eye wear; and
- During prolonged exposure, wear a minimum of a NIOSH-approved particulate filtering face-piece respirator with any N, R or P filter; or a NIOSH-approved elastomeric particulate respirator with any N, R or P filter; or a NIOSH-approved powered air-purifying respirator with an HE filter.

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

### **User Safety Recommendations**

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### **ENVIRONMENTAL HAZARDS STATEMENT**

For terrestrial uses: Do not apply to water, or to areas where surface water is present or to intertidal areas below the mean water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

### **DIRECTIONS FOR USE**

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

### **Agricultural Use Requirements**

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

For early entry into 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, wear:

- Coveralls over long-sleeved shirt and long pants, shoes and socks;
- Chemical-resistant gloves made of any waterproof material;
- Wear protective eye wear; and
- During prolonged exposure, wear a minimum of a NIOSH-approved particulate filtering face-piece respirator with any N, R or P filter; or a NIOSH-approved elastomeric particulate respirator with any N, R or P filter; or a NIOSH-approved powered air-purifying respirator with an HE filter.

### **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 children and pets out of the treated area until sprays have dried

### **PRODUCT INFORMATION**

This product provides effective control against crawling and flying insect pests and plant parasitic mites. Surfaces treated with DIAFIL® 610 will control flying insect pests if they land on the treated surface. DIAFIL® 610 is a mechanical insect killer. When applied as a wettable

powder using standard application equipment, it adheres to the outer surface of the target substrate, contact with an insect pest or mite results in the static transfer of a few particles of Diafil® 610 which absorb the protective lipid layer necessary for their survival. As a result, the insect will desiccate. Insect pests and mites will not become immune to Diafil® 610's mode of action. Insect pests that come in contact or ingest this powder will die within 48 hours.

### **APPLICATION**

This product is for use on crops and stored grain, in and around residential, commercial and agricultural buildings, structures and their immediate surroundings, in and around food/feed handling establishments, in and around livestock and poultry houses and may be applied over the top while animals are present.

DIAFIL® 610 is intended for application using commercially available hand dusters, power dusters or other suitable means for application to areas where insect pests are found. DIAFIL® 610 can be applied as a wettable powder (WP). WP treatments are intended both for indoor and outdoor applications and can be applied in a targeted manner.

#### **Wettable Powder Mixing Instructions:**

1. Fill spray tank with water and add recommended rate of DIAFIL® 610 to match spray tank application acreage and mix to ensure dispersion.
2. Add optional non-ionic surfactant according to label rate.

#### **Notes:**

- The recommended maximum addition rate of DIAFIL® 610 to water is 1.65 lbs per gallon.
- Non-ionic surfactants are used to improve spreading on hydrophobic surfaces.
- It is advised to mix this solution directly prior to spraying and apply the entire batch within 8 hours.
- When in suspension, DIAFIL® 610 will settle if left undisturbed for more than 1 hour, therefore, mix prior to restarting the application.
- When proper coverage is obtained, a visible white residue will be apparent on the treated surface.

## CROP APPLICATIONS

Apply DIAFIL® 610 as a wettable powder to all listed growing crops to control insect pests and mites. Repeat treatments, up to the listed maximum application rate, to maintain adequate control in the event of rain and if white residue is not visible. It is advisable to add non-ionic surfactants to improve spreading on foliage.

### Root and Tuber Vegetables (Group 1): Artichoke, Beet, Carrot, Ginger, Horseradish, Potato, Radish, Sweet Potato, Turnip

| Insect Pests   | Application Instructions:   |
|--|---|
| Aphids<br>Artichoke Plume Moth<br>Beet Armyworm<br>Blister Beetles<br>Carrot Weevil<br>Colorado Potato Beetle<br>Cucumber Beetle<br>Japanese Beetle<br>Potato Leafhopper<br>Potato Tuberworm<br>Psyllids<br>Stink Bugs<br>Thrips<br>Whiteflies   | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Root and Tuber Vegetables (Group 1):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |   |

### Bulb Vegetables (Group 3): Chive, Garlic, Leek, Onion, Shallot

| Insect Pests   | Application Instructions:   |
|--|---|
| Aphids<br>Onion Maggot<br>Stink Bugs<br>Thrips   | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Bulb Vegetables (Group 3):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |   |

### Leafy Vegetables (Group 4): Celery, Cress, Fennel, Lettuce, Parsley, Spinach, Swiss chard

| Insect Pests  | Application Instructions:   |
|---|---|
| Aphids<br>Armyworms<br>Cabbage Looper<br>Corn Earworm | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface |



|   |   |
|---|---|
| Cucumber Beetles<br>Diamondback Moth (Adults & Larvae)<br>Plant Parasitic Mites<br>Flea Beetles<br>Leafhoppers<br>Leafminers<br>Loopers<br>Saltmarsh Caterpillar<br>Stink Bugs<br>Thrips<br>Whiteflies  | when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Leafy Vegetables (Group 4):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |   |

**Brassica Leafy Vegetables (Group 5): Broccoli, Brussel Sprouts, Cabbage, Cauliflower, Collards, Kale, Mustard Greens**

| <b>Insect Pests</b>  | <b>Application Instructions:</b>  |
|--|---|
| Aphids<br>Armyworms<br>Cabbage Loopers<br>Cabbage Maggot<br>Corn Earworm<br>Crickets<br>Cross-striped Cabbageworm<br>Cucumber Beetles<br>Diamondback Moth (Adults & Larvae)<br>Flea Beetles<br>Imported Cabbageworm<br>Leafhoppers<br>Saltmarsh Caterpillar<br>Stink Bugs<br>Thrips<br>Whiteflies  | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Brassica Leafy Vegetables (Group 5):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |   |

**Legume Vegetables (Group 6): Beans (field, kidney, lima, navy, pinto, snap, blackeyed pea, cowpea, crowder pea), Chickpea, Lentil, Peas (English, field, garden, green, snow, sugar snap), Soybeans**

| <b>Insect Pests</b>  | <b>Application Instructions:</b>  |
|--|---|
| Aphids<br>Bean Beetles<br>Beet Armyworm<br>Caterpillars<br>Corn Earworm<br>Cucumber Beetles<br>European Corn Borer | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of |

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|--|---|
| Grasshoppers<br>Japanese Beetles<br>Plant Bugs<br>Plant Parasitic Mites<br>Leafminers<br>Loopers<br>Mexican Bean Beetle<br>Stink Bugs<br>Thrips<br>Webworms<br>Whiteflies  | rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Legume Vegetables (Group 6):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |   |

**Fruiting Vegetables (Group 8): Eggplant, Okra, Peppers (bell, nonbell), Tomatoes (bush, tree)**

| <b>Insect Pests</b>  | <b>Application Instructions:</b>  |
|--|---|
| Aphids<br>Armyworms<br>Corn Earworm<br>European Corn Borer<br>Flea Beetles<br>Plant Bugs<br>Plant Parasitic Mites<br>Japanese Beetles<br>Leafminers<br>Loopers<br>Pepper Weevil<br>Psyllids<br>Stink Bugs<br>Thrips<br>Tomato Budworm<br>Tomato Fruitworm<br>Tomato Hornworm<br>Tomato Pinworm<br>Tomato Russet Mite<br>Whiteflies | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Fruiting Vegetables (Group 8):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide]                                       |   |

**Cucurbit Vegetables (Group 9): Cucumber, Melons (cantaloupe, honeydew, watermelon) Pumpkin, Squash (summer, winter)**

| <b>Insect Pests</b>  | <b>Application Instructions:</b>  |
|--|---|
| Spotted Cucumber Beetle<br>Aphids<br>Armyworms<br>Cabbage Looper | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface |

|  |   |
|--|---|
| Corn Earworm<br>Cucumber Beetles<br>Fruit worms<br>Mites<br>Grasshopper<br>Leafhoppers<br>Squash Bug<br>Stink Bugs<br>Whiteflies   | when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Cucurbit Vegetables (Group 9):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |   |

**Citrus Fruits (Group 10): Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (sweet, sour), Satsuma**

|   |  |
|---|--|
| <b>Insect Pests</b>   | <b>Application Instructions:</b>   |
| Aphids<br>Earwigs<br>Plant Mite<br>Fruit Flies<br>Fruittree Leafroller<br>Fruitworms<br>Fuller Rose Beetle<br>Katydids<br>Leaffooted Bug<br>Mealybugs<br>Navel Orangeworm<br>Psyllids<br>Scales<br>Stink Bugs<br>Thrips<br>Whiteflies   | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. For large canopy groves, apply up to 70 lbs of product per acre. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Citrus Fruits (Group 10):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |  |

**Pome, Stone & Berry Fruits (Groups 11, 12, 13): Apple, Apricot, Blackberry, Blueberry, Cherry, Crabapple, Cranberry, Grape, Loquat, Mayhaw, Nectarine, Peach, Pear, Plum, Raspberry, Strawberry**

|  |   |
|--|---|
| <b>Insect Pests</b>  | <b>Application Instructions:</b>  |
| Aphids<br>Apple Maggot<br>Cherry Fruit Fly<br>Codling Moth<br>Crickets<br>Mealybugs<br>Plant Bugs<br>Plant Parasitic Mites<br>Fruitworms | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. For large canopy groves, apply up to 70 lbs of product per acre. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain |

|   |  |
|---|--|
| Grapeleaf Skeletonizer<br>Green Peach Aphid<br>Gypsy Moth (adults & larvae)<br>Katydid<br>Leafhoppers<br>Leafminers<br>Leafrollers<br>Mealybugs<br>Peach twig borer<br>Pear psylla<br>Scales<br>Spotted Wing Drosophila<br>Stink Bugs<br>Thrips<br>Weevils<br>Whiteflies  | adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Pome, Stone &amp; Berry Fruits (Groups 11, 12, 13):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |  |

**Tree Nuts (Group 14): Almond, Beechnut, Brazil Nut, Cashew, Chestnut, Macadamia, Pecan, Pistachio, Walnut**

| <b>Insect Pests</b>  | <b>Application Instructions:</b>   |
|--|--|
| Ants (excluding Fire, Harvester, Carpenter and Pharaoh ants)<br>Codling Moth<br>Aphids<br>Indian Meal Moth<br>Leafhopper<br>Mealybugs<br>Navel Orangeworm<br>Oriental Fruit Moth<br>Peach Twig Borer<br>Plant Bugs<br>Plant Parasitic Mites<br>Scales<br>Stink Bugs<br>Walnut Husk Fly | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. For large canopy groves, apply up to 70 lbs of product per acre. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Tree Nuts (Group 14):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide]    |  |

**Cereal Grains (Group 15): Barley, Corn (fresh sweet and dried field), Millet, Oats, Rice, Sorghum, Wheat, Wild rice**

| <b>Insect Pests</b>                                    | <b>Application Instructions:</b>  |
|--|---|
| Aphids<br>Armyworms<br>Corn Earworm<br>Cucumber Beetle | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface |

|   |   |
|---|---|
| European Corn Borer<br>Flea Beetles<br>Grasshopper<br>Greenbugs<br>Indian Meal Moth<br>Japanese Beetle<br>Rice Weevil<br>Rice Water Weevil<br>Southern Chinch Bug<br>Stink Bugs   | when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Cereal Grains (Group 15):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |   |

**Oilseed Field Crops (Group 20): Cottonseed, Flax seed, Mustard seed, Rapeseed, Sesame, Sunflower**

| <b>Insect Pests</b>  | <b>Application Instructions:</b>  |
|--|---|
| Aphids<br>Armyworms<br>Bean Beetles<br>Blister Beetles<br>Boll Weevil<br>Cabbage Looper<br>Caterpillars<br>Cigarette Beetle<br>Corn Earworm<br>Cucumber Beetle<br>European Corn Borer<br>Grasshopper<br>Japanese Beetle<br>Leafhoppers<br>Leafminers<br>Loopers<br>Plant Bugs<br>Saltmarsh Caterpillar<br>Stink Bugs<br>Thrips<br>Webworms | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Oilseed Field Crops (Group 20):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide]  |   |

**Stalk, Stem and Leaf Petiole Vegetables (Group 22): Agave, Asparagus, Bamboo shoots, Celery, Fennel, Kale, Prickly pear**

| <b>Insect Pests</b>                                     | <b>Application Instructions:</b>  |
|---|---|
| Aphids<br>Asparagus Beetle<br>Armyworms<br>Corn Earworm | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface |

|   |   |
|---|---|
| Crickets<br>Cross-striped Cabbageworm<br>Cucumber Beetle<br>Leafhoppers<br>Diamondback Moth<br>Plant Parasitic Mites<br>Flea Beetles<br>Japanese Beetles<br>Loopers<br>Stink Bugs<br>Thrips   | when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Stalk, Stem and Leaf Petiole Vegetables (Group 22):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |   |

**Tropical and Subtropical Fruit, Edible Peel Group. (Group 23): Olives**

| <b>Insect Pests</b>  | <b>Application Instructions:</b>   |
|--|--|
| Aphids<br>Apple Maggot<br>Cherry Fruit Fly<br>Codling Moth<br>Crickets<br>Mealybugs<br>Plant Bugs<br>Plant Parasitic Mites<br>Fruitworms<br>Grapeleaf Skeletonizer<br>Green Peach Aphid<br>Gypsy Moth (adults & larvae)<br>Katydids<br>Leafhoppers<br>Leafminers<br>Leafrollers<br>Mealybugs<br>Olive fruit fly<br>Peach twig borer<br>Pear psylla<br>Scales<br>Spotted Wing Drosophila<br>Stink Bugs<br>Thrips<br>Weevils<br>Whiteflies | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. For large canopy groves, apply up to 70 lbs of product per acre. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Tropical and Subtropical Fruit, Edible Peel Group. (Group 23):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610B per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610B per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610B per acre [595 lbs Silicon Dioxide]  |  |

**Non-grouped Crops: Cotton, Hops, Hemp, Peanut, and Tobacco**

| <b>Insect Pests</b>  | <b>Application Instructions:</b>  |
|--|---|
| Aphids<br>Armyworms<br>Bean Beetle<br>Blister Beetles<br>Boll Weevil<br>Cabbage Looper<br>Caterpillar<br>Cigarette Beetle<br>Corn Earworm<br>Cucumber Beetle<br>European Corn Borer<br>Grasshopper<br>Japanese Beetle<br>Leafhoppers<br>Leafminers<br>Loopers<br>Plant Bugs<br>Saltmarsh Caterpillar<br>Stink Bugs<br>Thrips<br>Tobacco Moth<br>Webworms<br>Whiteflies | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Non-grouped Crops: Cotton, Hops, Hemp, Peanut, and Tobacco:</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide]  |   |

**POULTRY AND LIVESTOCK**

This product is intended for use in and around Poultry and Livestock housing structures, swine houses, cattle barns, calf hutches, loafing barns, horse stables and pet kennels to control insect pests and mites. All other treatments are prohibited. Apply uniformly to infested areas of walls and floors, cracks, crevices, bedding, wall voids and around window and door frames. Applications are permitted when animals are present and may be used over the top of animals. Applications are permitted mid-flock while birds are present, over the top of the birds. Litter should be retreated when replaced and before each new batch of poultry is introduced to the facility.

**Use Restriction:** Do not apply directly to animal feed or watering equipment.

**Litter Treatment:** Use a handheld, power duster or powder spreader to evenly distribute 6 lbs per 1,000 square feet over the litter (minimum application rate for bed bugs is 136 lbs per 1,000 square feet), to the areas underneath feed and watering equipment lines. Bed bugs need to be contacted directly with this product. Applications can be made up to 150 lbs per 1,000 square feet for severe infestations. If litter is greater than 3 inches deep, apply up to an additional 2.5 lbs/1,000 square feet per additional inch of litter.

## Chicken Broiler Houses and Turkey Grow Out Houses

| Insect Pests  | Application Instructions:   |
|---|---|
| Darkling Beetle (lesser mealworm)<br>Mealworms<br>Hide Beetles<br>Plant Parasitic Mites<br>Fleas  | Apply 120 lbs of Diafil® 610 per 20,000 square foot house in a banded manner under feed lines, feed pans and perimeter boundary using an 18-24 inch drop spreader or hand shaker .  |
| Bed Bugs  | For bed bugs, apply a minimum application rate of 136 lbs of Diafil® 610B per 1,000 square foot house in a banded manner under feed lines, feed pans and perimeter boundary using an 18-24-inch drop spreader or hand shaker. For severe infestations, applications can be made up to 150 lbs of Diafil® 610B per 1,000 square foot house. Bed bugs need to be contacted directly with this product.. |
| <b>Use Restrictions for Chicken Broiler Houses and Turkey Grow Out Houses:</b><br>Minimum Application Rate: 4 lbs DIAFIL® 610 per 1,000 square feet<br>Maximum Application Rate (per application): 150 lbs DIAFIL® 610 per 1,000 square feet.<br>Maximum Application Rate (per year): 1,500 lbs DIAFIL® 610 per 1,000 square feet.<br>[1,275 lbs Silicon Dioxide] |   |

## Poultry House Wall Treatments:

The product is intended for Poultry House walls only. All other wall treatments are prohibited.

| Insect Pests  | Application Instructions:   |
|---|---|
| Darkling Beetle (lesser mealworm)<br>Mealworms<br>Hide Beetles<br>Plant Parasitic Mites<br>Fleas  | Apply as a wettable powder to vertical surfaces paying particular attention to cracks and crevices. Mix at 0.5-1.0 lbs per gallon and apply a single, even coat to the target area to deliver 2-5 oz Diafil® 610B /100 square feet. |
| <b>Use Restrictions for Poultry House Wall Treatments:</b><br>Minimum Application Rate: 2 oz DIAFIL® 610B per 100 square feet<br>Maximum Application Rate (per application): 5 oz DIAFIL® 610B per 100 square feet.<br>Maximum Application Rate (per year): 500 oz DIAFIL® 610B per 100 square feet<br>[425 oz Silicon Dioxide] |   |

## STORED GRAIN, LEGUMES, NUTS

An effective addition for insect pest and mite control, by physical action for suppressing insect pest damage to legumes, nuts and stored grain, including barley, buckwheat, corn, oats, rice, rye, sorghum grain, wheat, and mixtures of these grains.

Diafil® 610 is typically added at 0.6 - 2 lbs of per ton of legumes, nuts or grain (300 - 900 ppm) at the point of entry into storage. For stored grain, legumes or nuts in aerated storage conditions at moisture levels below 12% add 1 lb of Diafil® 610 per ton of grain, legumes or nuts. For stored grain, legumes or nuts in aerated storage with moisture levels between 12% - 15% add 2 lbs of Diafil® 610 per ton of grain, legumes or nuts. Up to 7 pounds of this



product per ton of grain, legumes or nuts (3,500 ppm) can be added in the event of severe infestation. For best results, treat grain, legumes or nuts immediately after harvest.

Treated grain, legumes or nuts may be reduced to a lower grade, have reduced flowability and test weight. When using layer treatment, no more than 10% – 20% of the total mass should be treated order to minimize the bulk density reduction of the total mass. After the grain, legumes or nuts are initially transported upon storage, the overall concentration of Diafil® 610 in the entire mass will be greatly reduced because of dilution with untreated grain, legumes or nuts and some dust loss to the air. At higher dosing rates, it is advised to increase the dilution factor between treated and untreated grain, legumes or nuts to further minimize bulk density reductions in total mass. Common dilution factors used to mitigate reductions in bulk density are 1:19, 1:9, and 1:4 Diafil® 610 treated grain, legumes or nuts to untreated grain, legumes or nuts with the 1:19 dilution factor giving the lowest reduction in bulk density.

**Harvest and Loading Equipment:** Clean out harvesting and loading equipment such as combines, trucks, and augers at the end of each harvest season. Treat combine headers, trucks, augers and conveyer belts with Diafil® 610 using a power duster to target areas where insect pests may reside. The amount of product to be applied will vary with the equipment being treated but should usually be in the range of 2-5 oz/100 square feet.

**Storage Facilities:** Clean storage facilities including bins, flat storages, ship holds, box cars, and silos of any grain fines and broken kernels. Apply Diafil® 610 on the floors and sides of empty storage facilities. Spray or dust the outside of the bin to a height of 3 feet and the surrounding concrete, gravel or sod to a distance of 6 - 9 feet from base of structure. Treat empty storage facilities two to three weeks before grain, legume or nut storage. Repeat applications when storage areas are emptied to control residual insect pest populations. To aid in dispersion of Diafil® 610 throughout large capacity bins, aeration fans may be used.

A backpack sprayer or larger power sprayer may be used to apply Diafil® 610 as a wall treatment in storage facilities. Mix at 0.5 - 1.0 lb per gallon and apply a single, even coat to the target area to deliver 2 - 5 oz/100 square foot coverage.

**Add Mixture Dry Treatment:** Apply 1 lb of Diafil® 610 per ton of grain, legumes or nuts to clean product as it is loaded into the bin according to the application rate given above. Apply to a moving stream at the bottom of the bucket elevator or auger so the material has an opportunity to contact as much product as possible as the grain, legumes or nuts are moved.

For bagged grain, legumes or nuts, spread the recommended dose on top of the product and mix using a shovel before adding the treated product to storage bags.

**Top Dress Treatment:** Use a handheld, power duster or powder spreader to evenly distribute 2 - 4 lbs/1,000 square feet directly to the surface or shell layer.

### **FOOD AREAS OF FOOD/FEED HANDLING ESTABLISHMENTS**

Food/feed handling establishments are places other than private residences in which food/feed is held, processed, prepared or served. Apply DIAFIL® 610 where these listed insect pests may be entering the structure, traveling, breeding or harboring. Remove or cover all food or feed items in the treatment area before applying product. Treat open spaces below floors, above ceilings, within walls, under stairs, underneath and behind equipment or appliances, around pipes and sinks, in utility closets and around garbage and waste cans. In food handling areas, or areas where food or feed products are prepared or stored, apply as a crack & crevice or spot treatment. As a crack & crevice treatment, apply sparingly into cracks and crevices using equipment designed to place powder into specific locations. Limit spot treatments to walls or floors where pests are suspected of hiding. No individual spot

treatments should exceed 2 square feet. For best results, apply to dry areas. Repeat treatment on dry surfaces if DIAFIL® 610 has been removed to maintain control of problem insect pests. Apply as a dry powder OR wettable powder in a targeted manner. The amount of product to be applied will vary with the site but should usually be in the range of 2-5 oz/100 square feet.

### **RESIDENTIAL USES (INDOOR AND OUTDOOR APPLICATIONS)**

In living areas, make applications in such a manner as to avoid deposits on exposed surfaces or introducing the material into the air. Application as wettable powder will facilitate a targeted application. Treat a small area of the surface to be treated and look for staining or other adverse reactions before making regular application.

#### **WETTABLE POWDER MIXING INSTRUCTIONS PER 1 GALLON CONTAINER**

1. Fill container with water and add 1 lbs DIAFIL® 610. Close and shake the container for 15 seconds to disperse the DIAFIL® 610.
2. Carefully decant into handsprayer, pressurize and apply a single, even coat to the target area.

To apply DIAFIL® 610 directly into cracks and crevices, use a bulbous duster or other suitable equipment. Apply lightly and uniformly to infested areas. The amount of product to be applied will vary with the site but should usually be in the range of 2-5 oz/100 square feet applied as either a dust or wettable powder.

**Indoor use:** Lightly coat a thin layer of DIAFIL® 610 in areas where target pests are found and may hide such as cracks and crevices, behind and beneath refrigerators, cabinets, stoves, garbage cans and in and around sewer pipes and drains, window frames and in attics and basements. Dust insect pests directly if possible. Repeat treatment if the product is inadvertently removed. The amount of product to be applied will vary with the site but should usually be in the range of 2-5 oz/100 square feet.

**Fleas:** Thoroughly treat floor and bedding in and around pets' sleeping quarters. Treat surrounding cracks and crevices, baseboards, carpeting and wherever fleas are suspected.

**Carpet Beetles:** Dust along baseboards, carpet edges, under carpeting, furniture, in closets and shelving where these insect pests are seen or suspected.

**Bed Bugs:** Dismantle bed frame and remove bedding. Do not apply product to bedding. Apply DIAFIL® 610 to the bed frame, mattress and box spring. Application to mattresses and box springs is intended for treatment of seams, edges and tufts [creases][folds][indentations][buttons][vent holes] only. Do not treat the entire surface of the mattress or box spring. After four hours, vacuum the dust from the mattress. Also apply the product to cracks and crevices in the sleeping area such as baseboards, behind pictures/wall hangings, along and underneath carpet edges and other articles/furniture in the bedroom or sleeping area.

**USE RESTRICTION:** Do not apply to stuffed animals or toys.

**Outdoor Use:** Lightly coat a thin layer of DIAFIL® 610 in areas where these insect pests are found such as patios, outdoor sills, window and door frames. Apply around foundations, along ant trails and around sewer pipes and drains. The treatment can be repeated in the event of rain or if the white residue is not visible. The amount of product to be applied will vary with the site but should usually be in the range of 2 - 5 oz/100 square feet.

### **STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Keep this product in its tightly closed original container. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. **If empty:** Offer for recycling if available or discard in a sanitary landfill. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

### **WARRANTY DISCLAIMER**

To the extent consistent with applicable law, Manufacturer makes no warranty, expressed or implied, regarding the performance of this product that extend beyond the statements made on this label.

# SubLabel B - Agricultural Uses

## Diafil® 610

MECHANICAL INSECTICIDE

Effective and long lasting when kept dry.

Kills the following listed insects:

**Beetles:** Spotted Cucumber Beetle (southern corn rootworm), Asparagus Beetle, Bean Beetles, Blister Beetles, Carpet Beetle, Cigarette Beetle, Colorado Potato Beetle, Confused Flour Beetle, Driedfruit Beetle, Drugstore Beetle, Elm Leaf Beetle, Flea Beetles, Hide Beetle, Japanese Beetle, Mexican Bean Beetle, Red Flour Beetle, Sawtoothed Grain Beetle, American Spider Beetle, Yellow Mealworm

**Moths:** Angoumois Grain Moth, Artichoke Plume Moth, Codling Moth, Diamondback Moth (adults & larvae), Ponderosa Pine Tip Moth, Grapeleaf Skeletonizer, Gypsy Moth (adults & larvae), Indian Meal Moth, Mediterranean Flour Moth, Tobacco Moth, Pine Tussock Moth

**Weevils:** Boll Weevil, Carrot Weevil, Sweetclover Weevil, Pepper Weevil, Rice Weevil

**Flies, Gnats, Maggots:** Apple Maggot, Blow Flies, Cabbage Maggots, Cherry Fruit Fly (cherry maggot), Crane Flies, Fruit Flies, Fungus Gnats, Apple Maggot, Mushroom Fly, Olive Fruit Fly, Onion Maggot, Shore fly, Vinegar Fly, Whiteflies

**Worms, Slugs and Caterpillars:** Armyworm, Bagworm, Beet Armyworm, Cross-striped Cabbageworm, Cankerworms, Caterpillars, Corn Earworm (bollworm/tomato fruitworm), Dark Mealworm, Eastern Tent Caterpillar, Fireworms, Forest Tent Caterpillar, Cherry Fruitworm, Tobacco Hornworm, Green Fruitworm, Imported Cabbageworm, Lesser Mealworm, Navel Orangeworm, Pink bollworm, Potato Tuberworm, Saltmarsh caterpillar, Spotted Garden Slug, Tobacco Budworm, Tomato Fruitworm (bollworm/corn earworm), Tomato Hornworm, Tomato pinworm, Beet Webworm, Corn Root Webworm, Western Yellowstriped Armyworm

**Bugs, Scales and Plant Mites:** Armored Scale, Billbugs, Boxelder Bug, Clover Mite, Eriophyid Mite, Grain Mite, Grape Mealybug, Greenbug, Harlequin Bug, Lacebugs, Leaffooted bug, Citrus Mealybug, Proba bug, Tarnished Plant Bug, Tomato bug, Tomato Russet Mite, Soft Scale, Squash bug, Stink Bugs, Southern chinch bug, Sowbugs, Grape mealybug

**Aphids, Borers, Leafhoppers, Leaf miners, loopers and other insects as listed:** Ants (excluding Fire, Harvester, Carpenter and Pharaoh ants), Aphids, Bermudagrass Mirids, Twig Borers, Cabbage Looper, Cadelle, Chalcids, Cheese Skipper, Crickets, Mole Crickets, Earwigs, European Corn Borer, Fruittree Leafroller, Garden Symphylan, Glassy-winged Sharpshooter, Grape Leafhoppers, Grasshoppers, Green Peach Aphid, Greenhouse Thrip, Katydid, Leafhoppers, Leafminers, Leafrollers, Leaf tiers, Loopers, Millipedes, Orange Tortrix, Pacific Flatheaded Borer, Pear Psylla, Potato Leafhopper, Psyllids, Shothole borer, Silverfish, Skippers, Springtails, Thrips.

### ACTIVE INGREDIENT:

Diatomaceous Earth, chemical composition consisting of:

Silicon Dioxide .....85.0%

**OTHER INGREDIENTS:** .....15.0%

**Total**.....100.0%

Contains 14.2 lbs of Silicon Dioxide per gallon of product

[Optional referral statements when booklets and container labels are used:

See Panel for First Aid Instructions and [booklet for] [complete] Precautionary Statements [and Directions For Use].

See label booklet for complete Precautionary Statements, [First Aid Instructions, ]Directions For Use, and Storage and Disposal.

See label booklet for additional Precautionary Statements, [First Aid Instructions, ]Directions For Use, and Storage and Disposal.

See label booklet for Complete Directions For Use.]

Net Weight: \_\_\_\_\_ lbs.

EPA Reg. No. 73729-1

EPA Establishment No. 073729-NV-001  
EPA Establishment No. 073729-MEX-002  
Batch Code:

IMERYS FILTRATION MINERALS, INC.  
2500 MIGUELITO RD.  
LOMPOC CA 93436

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

{Note to reviewer: First Aid section can be listed in table or paragraph format}

| <b>FIRST AID</b>  |   |
|---|---|
| <b>If In Eyes:</b>  | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul> |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies, call the poison control center at 1-800-222-1222. For general information on this product, contact the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8 AM to 12 PM PST, or at <a href="http://npic.orst.edu">http://npic.orst.edu</a> . |   |

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Use adequate ventilation and avoid breathing dust. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Mixers, loaders, applicators and other handlers must wear the following:**

- Long-sleeved shirt, long pants, shoes and socks;
- Gloves made of any waterproof material;
- Wear protective eye wear; and
- During prolonged exposure, wear a minimum of a NIOSH-approved particulate filtering face-piece respirator with any N, R or P filter; or a NIOSH-approved elastomeric particulate respirator with any N, R or P filter; or a NIOSH-approved powered air-purifying respirator with an HE filter.

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

### **User Safety Recommendations**

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### **ENVIRONMENTAL HAZARDS STATEMENT**

For terrestrial uses: Do not apply to water, or to areas where surface water is present or to intertidal areas below the mean water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

### **DIRECTIONS FOR USE**

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

### **Agricultural Use Requirements**

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

For early entry into 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, wear:

- Coveralls over long-sleeved shirt and long pants, shoes and socks;
- Chemical-resistant gloves made of any waterproof material; and
- Wear protective eye wear; and
- During prolonged exposure, wear a minimum of a NIOSH-approved particulate filtering face-piece respirator with any N, R or P filter; or a NIOSH-approved elastomeric particulate respirator with any N, R or P filter; or a NIOSH-approved powered air-purifying respirator with an HE filter.

### **PRODUCT INFORMATION**

This product provides effective control against crawling and flying insect pests and plant parasitic mites. Surfaces treated with DIAFIL® 610 will control flying insect pests if they land on the treated surface. DIAFIL® 610 is a mechanical insect killer. When applied as a wettable powder using standard application equipment, it adheres to the outer surface of the target substrate, contact with an insect pest or mite results in the static transfer of a few particles of Diafil® 610 which absorb the protective lipid layer necessary for their survival. As a result, the insect will desiccate. Insect pests and mites will not become immune to Diafil® 610's mode of action. Insect pests that come in contact or ingest this powder will die within 48 hours.

#### **Wettable Powder Mixing Instructions:**

1. Fill spray tank with water and add recommended rate of DIAFIL® 610 to match spray tank application acreage and mix to ensure dispersion.

2. Add optional non-ionic surfactant according to label rate.

**Notes:**

- The recommended maximum addition rate of DIAFIL® 610 to water is 1.65 lbs per gallon.
- Non-ionic surfactants are used to improve spreading on hydrophobic surfaces.
- It is advised to mix this solution directly prior to spraying and apply the entire batch within 8 hours.
- When in suspension, DIAFIL® 610 will settle if left undisturbed for more than 1 hour, therefore, mix prior to restarting the application.
- When proper coverage is obtained, a visible white residue will be apparent on the treated surface.

**CROP APPLICATIONS**

Apply DIAFIL® 610 as a wettable powder to all listed growing crops to control insect pests and mites. Repeat treatments, up to the listed maximum application rate, to maintain adequate control in the event of rain and if white residue is not visible. It is advisable to add non-ionic surfactants to improve spreading on foliage.

**Root and Tuber Vegetables (Group 1): Artichoke, Beet, Carrot, Ginger, Horseradish, Potato, Radish, Sweet Potato, Turnip**

| <b>Insect Pests</b>   | <b>Application Instructions:</b>  |
|---|---|
| Aphids<br>Artichoke Plume Moth<br>Beet Armyworm<br>Blister Beetles<br>Carrot Weevil<br>Colorado Potato Beetle<br>Cucumber Beetle<br>Japanese Beetle<br>Potato Leafhopper<br>Potato Tuberworm<br>Psyllids<br>Stink Bugs<br>Thrips<br>Whiteflies  | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <p><b>Use Restrictions for Root and Tuber Vegetables (Group 1):</b><br/>                     Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br/>                     Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br/>                     Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide]</p> |   |

**Bulb Vegetables (Group 3): Chive, Garlic, Leek, Onion, Shallot**

| <b>Insect Pests</b>                            | <b>Application Instructions:</b>  |
|--|---|
| Aphids<br>Onion Maggot<br>Stink Bugs<br>Thrips | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of |

|  |   |
|--|---|
|  | rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Bulb Vegetables (Group 3):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |   |

**Leafy Vegetables (Group 4): Celery, Cress, Fennel, Lettuce, Parsley, Spinach, Swiss chard**

| <b>Insect Pests</b>   | <b>Application Instructions:</b>  |
|---|---|
| Aphids<br>Armyworms<br>Cabbage Looper<br>Corn Earworm<br>Cucumber Beetles<br>Diamondback Moth (Adults & Larvae)<br>Plant Parasitic Mites<br>Flea Beetles<br>Leafhoppers<br>Leafminers<br>Loopers<br>Saltmarsh Caterpillar<br>Stink Bugs<br>Thrips<br>Whiteflies                           | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Leafy Vegetables (Group 4):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |   |

**Brassica Leafy Vegetables (Group 5): Broccoli, Brussel Sprouts, Cabbage, Cauliflower, Collards, Kale, Mustard Greens**

| <b>Insect Pests</b>   | <b>Application Instructions:</b>  |
|---|---|
| Aphids<br>Armyworms<br>Cabbage Loopers<br>Cabbage Maggot<br>Corn Earworm<br>Crickets<br>Cross-striped Cabbageworm<br>Cucumber Beetles<br>Diamondback Moth (Adults & Larvae)<br>Flea Beetles<br>Imported Cabbageworm<br>Leafhoppers<br>Saltmarsh Caterpillar<br>Stink Bugs<br>Thrips<br>Whiteflies | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Brassica Leafy Vegetables (Group 5):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre  |   |



Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre  
 Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide]

**Legume Vegetables (Group 6): Beans (field, kidney, lima, navy, pinto, snap, blackeyed pea, cowpea, crowder pea), Chickpea, Lentil, Peas ((English, field, garden, green, snow, sugar snap), Soybeans**

| <b>Insect Pests</b>   | <b>Application Instructions:</b>  |
|---|---|
| Aphids<br>Bean Beetles<br>Beet Armyworm<br>Caterpillars<br>Corn Earworm<br>Cucumber Beetles<br>European Corn Borer<br>Grasshoppers<br>Japanese Beetles<br>Plant Bugs<br>Plant Parasitic Mites<br>Leafminers<br>Loopers<br>Mexican Bean Beetle<br>Stink Bugs<br>Thrips<br>Webworms<br>Whiteflies                                       | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <p><b>Use Restrictions for Legume Vegetables (Group 6):</b><br/>           Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br/>           Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br/>           Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide]</p> |   |

**Fruiting Vegetables (Group 8): Eggplant, Okra, Peppers (bell, nonbell), Tomatoes (bush, tree)**

| <b>Insect Pests</b>  | <b>Application Instructions:</b>  |
|--|---|
| Aphids<br>Armyworms<br>Corn Earworm<br>European Corn Borer<br>Flea Beetles<br>Plant Bugs<br>Plant Parasitic Mites<br>Japanese Beetles<br>Leafminers<br>Loopers<br>Pepper Weevil<br>Psyllids<br>Stink Bugs<br>Thrips<br>Tomato Budworm<br>Tomato Fruitworm<br>Tomato Hornworm<br>Tomato Pinworm | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |

|  |  |
|--|--|
| Tomato Russet Mite<br>Whiteflies   |  |
| <b>Use Restrictions for Fruiting Vegetables (Group 8):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |  |

**Cucurbit Vegetables (Group 9): Cucumber, Melons (cantaloupe, honeydew, watermelon) Pumpkin, Squash (summer, winter)**

| <b>Insect Pests</b>  | <b>Application Instructions:</b>  |
|--|---|
| Spotted Cucumber Beetle<br>Aphids<br>Armyworms<br>Cabbage Looper<br>Corn Earworm<br>Cucumber Beetles<br>Fruit worms<br>Mites<br>Grasshopper<br>Leafhoppers<br>Squash Bug<br>Stink Bugs<br>Whiteflies   | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Cucurbit Vegetables (Group 9):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |   |

**Citrus Fruits (Group 10): Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (sweet, sour), Satsuma**

| <b>Insect Pests</b>   | <b>Application Instructions:</b>   |
|---|--|
| Aphids<br>Earwigs<br>Plant Mite<br>Fruit Flies<br>Fruittree Leafroller<br>Fruitworms<br>Fuller Rose Beetle<br>Katydid<br>Leafooted Bug<br>Mealybugs<br>Navel Orangeworm<br>Psyllids<br>Scales<br>Stink Bugs<br>Thrips<br>Whiteflies | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. For large canopy groves, apply up to 70 lbs of product per acre. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Citrus Fruits (Group 10):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre  |  |

Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide]

**Pome, Stone & Berry Fruits (Groups 11, 12, 13): Apple, Apricot, Blackberry, Blueberry, Cherry, Crabapple, Cranberry, Grape, Loquat, Mayhaw, Nectarine, Peach, Pear, Plum, Raspberry, Strawberry**

| <b>Insect Pests</b>  | <b>Application Instructions:</b>  |
|--|---|
| <p>Aphids<br/> Apple Maggot<br/> Cherry Fruit Fly<br/> Codling Moth<br/> Crickets<br/> Mealybugs<br/> Plant Bugs<br/> Plant Parasitic Mites<br/> Fruitworms<br/> Grapeleaf Skeletonizer<br/> Green Peach Aphid<br/> Gypsy Moth (adults &amp; larvae)<br/> Katydids<br/> Leafhoppers<br/> Leafminers<br/> Leafrollers<br/> Mealybugs<br/> Peach twig borer<br/> Pear psylla<br/> Scales<br/> Spotted Wing Drosophila<br/> Stink Bugs<br/> Thrips<br/> Weevils<br/> Whiteflies</p> | <p>Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. For large canopy groves, apply up to 70 lbs of product per acre. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded.</p> |
| <p><b>Use Restrictions for Pome, Stone &amp; Berry Fruits (Groups 11, 12, 13):</b><br/> Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br/> Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br/> Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide]</p>   |   |

**Tree Nuts (Group 14): Almond, Beechnut, Brazil nut Cashew, Chestnut, Macadamia, Pecan, Walnut, Pistachio**

| <b>Insect Pests</b>  | <b>Application Instructions:</b>  |
|--|---|
| <p>Ants (excluding Fire, Harvester, Carpenter and Pharaoh ants)<br/> Codling Moth<br/> Aphids<br/> Indian Meal Moth<br/> Leaffooted Bug<br/> Mealybugs<br/> Navel Orangeworm<br/> Oriental Fruit Moth<br/> Peach Twig Borer<br/> Plant Bugs<br/> Plant Parasitic Mites</p> | <p>Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. For large canopy groves, apply up to 70 lbs of product per acre. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded.</p> |

|   |  |
|---|--|
| Scales<br>Stink Bugs<br>Walnut Husk Fly   |  |
| <b>Use Restrictions for Tree Nuts (Group 14):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |  |

**Cereal Grains (Group 15): Barley, Corn (fresh sweet and dried field), Millet, Oats, Rice, Sorghum, Wheat, Wild rice**

|   |   |
|---|---|
| <b>Insect Pests</b>   | <b>Application Instructions:</b>  |
| Aphids<br>Armyworms<br>Corn Earworm<br>Cucumber Beetle<br>European Corn Borer<br>Flea Beetles<br>Grasshopper<br>Greenbugs<br>Indian Meal Moth<br>Japanese Beetle<br>Rice Weevil<br>Rice Water Weevil<br>Southern Chinch Bug<br>Stink Bugs   | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Cereal Grains (Group 15):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |   |

**Oilseed Field Crops (Group 20): Cottonseed, Flax seed, Mustard seed, Rapeseed, Sesame, Sunflower**

|  |   |
|--|---|
| <b>Insect Pests</b>  | <b>Application Instructions:</b>  |
| Aphids<br>Armyworms<br>Bean Beetles<br>Blister Beetles<br>Boll Weevil<br>Cabbage Looper<br>Caterpillars<br>Cigarette Beetle<br>Corn Earworm<br>Cucumber Beetle<br>European Corn Borer<br>Grasshopper<br>Japanese Beetle<br>Leafhoppers<br>Leafminers<br>Loopers<br>Plant Bugs<br>Saltmarsh Caterpillar | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |

|   |  |
|---|--|
| Stink Bugs<br>Thrips<br>Webworms  |  |
| <b>Use Restrictions for Oilseed Field Crops (Group 20):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |  |

**Stalk, Stem and Leaf Petiole Vegetables (Group 22): Agave, Asparagus, Bamboo shoots, Celery, Fennel, Kale, Prickly pear**

|   |   |
|---|---|
| <b>Insect Pests</b>   | <b>Application Instructions:</b>  |
| Aphids<br>Asparagus Beetle<br>Armyworms<br>Corn Earworm<br>Crickets<br>Cross-striped Cabbageworm<br>Cucumber Beetle<br>Leafhoppers<br>Diamondback Moth<br>Plant Parasitic Mites<br>Flea Beetles<br>Japanese Beetles<br>Loopers<br>Stink Bugs<br>Thrips  | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Stalk, Stem and Leaf Petiole Vegetables (Group 22):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide] |   |

**Tropical and Subtropical Fruit, Edible Peel Group (Group 23): Olives**

|  |  |
|--|--|
| <b>Insect Pests</b>  | <b>Application Instructions:</b>   |
| Aphids<br>Apple Maggot<br>Cherry Fruit Fly<br>Codling Moth<br>Crickets<br>Mealybugs<br>Plant Bugs<br>Plant Parasitic Mites<br>Fruitworms<br>Grapeleaf Skeletonizer<br>Green Peach Aphid<br>Gypsy Moth (adults & larvae)<br>Katydid<br>Leafhoppers<br>Leafminers<br>Leafrollers<br>Mealybugs<br>Olive fruit fly | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. For large canopy groves, apply up to 70 lbs of product per acre. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |

|   |  |
|---|--|
| Peach twig borer<br>Pear psylla<br>Scales<br>Spotted Wing Drosophila<br>Stink Bugs<br>Thrips<br>Weevils<br>Whiteflies   |  |
| <b>Use Restrictions for Tropical and Subtropical Fruit, Edible Peel Group. (Group 23):</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610B per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610B per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610B per acre [595 lbs Silicon Dioxide] |  |

**Non-grouped Crops: Cotton, Hops, Hemp, Peanut, and Tobacco**

| <b>Insect Pests</b>  | <b>Application Instructions:</b>  |
|--|---|
| Aphids<br>Armyworms<br>Bean Beetle<br>Blister Beetles<br>Boll Weevil<br>Cabbage Looper<br>Caterpillar<br>Cigarette Beetle<br>Corn Earworm<br>Cucumber Beetle<br>European Corn Borer<br>Grasshopper<br>Japanese Beetle<br>Leafhoppers<br>Leafminers<br>Loopers<br>Plant Bugs<br>Saltmarsh Caterpillar<br>Stink Bugs<br>Thrips<br>Tobacco Moth<br>Webworms<br>Whiteflies | Dependent on insect pressure, apply 6 to 20 lbs of product per acre of crop as a wettable powder. A visible white residue will be apparent on the treated surface when the proper coverage is obtained. Repeat treatments up to the label rate to maintain adequate control in the event of rain and/or whenever white residue has faded. |
| <b>Use Restrictions for Non-grouped Crops: Cotton, Hops, Hemp, Peanut, and Tobacco:</b><br>Minimum Application Rate: 6 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per application): 70 lbs DIAFIL® 610 per acre<br>Maximum Application Rate (per year): 700 lbs DIAFIL® 610 per acre [595 lbs Silicon Dioxide]  |   |

**STORED GRAIN, LEGUMES, NUTS**

An effective addition for insect pest and mite control, by physical action for suppressing insect pest damage to legumes, nuts and stored grain, including barley, buckwheat, corn, oats, rice, rye, sorghum grain, wheat, and mixtures of these grains.

Diafil® 610 is typically added at 0.6 - 2 lbs of per ton of legumes, nuts or grain (300 - 900 ppm) at the point of entry into storage. For stored grain, legumes or nuts in aerated storage conditions at moisture levels below 12% add 1lbs of Diafil® 610 per ton of grain, legumes or nuts. For stored grain, legumes or nuts in aerated storage with moisture levels between 12% - 15% add 2 lbs of Diafil® 610 per ton of grain, legumes or nuts. Up to 7 pounds of this product per ton of grain, legumes or nuts (3,500 ppm) can be added in the event of severe infestation. For best results, treat grain, legumes or nuts immediately after harvest.

Treated grain, legumes or nuts may be reduced to a lower grade, have reduced flowability and test weight. When using layer treatment, no more than 10% – 20% of the total mass should be treated order to minimize the bulk density reduction of the total mass. After the grain, legumes or nuts are initially transported upon storage, the overall concentration of Diafil® 610 in the entire mass will be greatly reduced because of dilution with untreated grain, legumes or nuts and some dust loss to the air. At higher dosing rates, it is advised to increase the dilution factor between treated and untreated grain, legumes or nuts to further minimize bulk density reductions in total mass. Common dilution factors used to mitigate reductions in bulk density are 1:19, 1:9, and 1:4 Diafil® 610 treated grain, legumes or nuts to untreated grain, legumes or nuts with the 1:19 dilution factor giving the lowest reduction in bulk density.

**Harvest and Loading Equipment:** Clean out harvesting and loading equipment such as combines, trucks, and augers at the end of each harvest season. Treat combine headers, trucks, augers and conveyer belts with Diafil® 610 using a power duster to target areas where insect pests may reside. The amount of product to be applied will vary with the equipment being treated but should usually be in the range of 2 - 5 oz/100 square feet.

**Storage Facilities:** Clean storage facilities including bins, flat storages, ship holds, box cars, and silos of any grain fines and broken kernels. Apply Diafil® 610 on the floors and sides of empty storage facilities. Spray or dust the outside of the bin to a height of 3 feet and the surrounding concrete, gravel or sod to a distance of 6 - 9 feet from base of structure. Treat empty storage facilities two to three weeks before grain, legume or nut storage. Repeat applications when storage areas are emptied to control residual insect pest populations. To aid in dispersion of Diafil® 610 throughout large capacity bins, aeration fans may be used.

A backpack sprayer or larger power sprayer may be used to apply Diafil® 610 as a wall treatment in storage facilities. Mix at 0.5 - 1.0 lbs per gallon and apply a single, even coat to the target area to deliver 2-5 oz/100 square foot coverage.

**Add Mixture Dry Treatment:** Apply 1 lbs of Diafil® 610 per ton of grain, legumes or nuts to clean product as it is loaded into the bin according to the application rate given above. Apply to a moving stream at the bottom of the bucket elevator or auger so the material has an opportunity to contact as much product as possible as the grain, legumes or nuts are moved.

For bagged grain, legumes or nuts, spread the recommended dose on top of the product and mix using a shovel before adding the treated product to storage bags.

**Top Dress Treatment:** Use a handheld, power duster or powder spreader to evenly distribute 2 - 4 lbs/1,000 square feet directly to the surface or shell layer.

### **STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Keep this product in its tightly closed original container. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. **If empty:** Offer for recycling if available or discard in a sanitary landfill. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

### **WARRANTY DISCLAIMER**

To the extent consistent with applicable law, Manufacturer makes no warranty, expressed or implied, regarding the performance of this product that extend beyond the statements made on this label.



# SubLabel C – Poultry and Livestock Uses Only

## Diafil® 610

MECHANICAL INSECTICIDE

Effective and long lasting when kept dry.

Kills the following listed insects:

Darkling Beetle (lesser mealworm)

Mealworms

Hide Beetles

Plant Parasitic Mites

Bed Bugs

### ACTIVE INGREDIENT:

Diatomaceous Earth, chemical composition consisting of:

Silicon Dioxide .....85.0%

**OTHER INGREDIENTS** .....15.0%

**Total**.....100.0%

Contains 14.2 lbs of Silicon Dioxide per gallon of product

[Optional referral statements when booklets and container labels are used:

See Panel for First Aid Instructions and [booklet for] [complete] Precautionary Statements [and Directions For Use].

See label booklet for complete Precautionary Statements, [First Aid Instructions, ]Directions For Use, and Storage and Disposal.

See label booklet for additional Precautionary Statements, [First Aid Instructions, ]Directions For Use, and Storage and Disposal.

See label booklet for Complete Directions For Use.]

Net Weight:\_\_\_\_\_lbs.

EPA Reg. No. 73729-1

EPA Establishment No. 073729-NV-001

EPA Establishment No. 073729-MEX-002

Batch Code:

IMERYS FILTRATION MINERALS, INC.

2500 MIGUELITO RD.

LOMPOC CA 93436

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

{Note to reviewer: First Aid section can be listed in table or paragraph format}

| FIRST AID          |  |
|--------------------|--|
| <b>If In Eyes:</b> | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li></ul> |

- |  |  |
|--|--|
|  | <ul style="list-style-type: none"><li>• Call a poison control center or doctor for treatment advice.</li></ul> |
|--|--|

|   |
|---|
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies, call the poison control center at 1-800-222-1222. For general information on this product, contact the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8 AM to 12 PM PST, or at <a href="http://npic.orst.edu">http://npic.orst.edu</a> . |
|---|

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Use adequate ventilation and avoid breathing dust. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Mixers, loaders, applicators and other handlers must wear the following:**

- Long-sleeved shirt, long pants, shoes and socks;
- Gloves made of any waterproof material;
- Wear protective eye wear; and
- During prolonged exposure, wear a minimum of a NIOSH-approved particulate filtering face-piece respirator with any N, R or P filter; or a NIOSH-approved elastomeric particulate respirator with any N, R or P filter; or a NIOSH-approved powered air-purifying respirator with an HE filter.

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

|                                    |
|------------------------------------|
| <b>User Safety Recommendations</b> |
|------------------------------------|

Users should:

- |  |
|--|
| <ul style="list-style-type: none"><li>• Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li><li>• 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.</li></ul> |
|--|

**ENVIRONMENTAL HAZARDS STATEMENT**

For terrestrial uses: Do not apply to water, or to areas where surface water is present or to intertidal areas below the mean water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

**DIRECTIONS FOR USE**

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

|                                      |
|--------------------------------------|
| <b>Agricultural Use Requirements</b> |
|--------------------------------------|

|  |
|--|
| 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. |
|--|

For early entry into 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, wear:

- Coveralls over long-sleeved shirt and long pants, shoes and socks;
- Chemical-resistant gloves made of any waterproof material; and
- Wear protective eye wear; and
- During prolonged exposure, wear a minimum of a NIOSH-approved particulate filtering face-piece respirator with any N, R or P filter; or a NIOSH-approved elastomeric particulate respirator with any N, R or P filter; or a NIOSH-approved powered air-purifying respirator with an HE filter.

### **PRODUCT INFORMATION**

This product provides effective control against crawling and flying insect pests and plant parasitic mites. Surfaces treated with DIAFIL® 610 will control flying insect pests if they land on the treated surface. DIAFIL® 610 is a mechanical insect killer. When applied as a wettable powder using standard application equipment, it adheres to the outer surface of the target substrate, contact with an insect pest or mite results in the static transfer of a few particles of Diafil® 610 which absorb the protective lipid layer necessary for their survival. As a result, the insect will desiccate. Insect pests and mites will not become immune to Diafil® 610's mode of action. Insect pests that come in contact or ingest this powder will die within 48 hours.

#### **Wettable Powder Mixing Instructions:**

1. Fill spray tank with water and add recommended rate of DIAFIL® 610B to match spray tank application acreage and mix to ensure dispersion.
2. Add optional non-ionic surfactant according to label rate.

#### **Notes:**

- The recommended maximum addition rate of DIAFIL® 610B to water is 1.65 lbs per gallon.
- Non-ionic surfactants are used to improve spreading on hydrophobic surfaces.
- It is advised to mix this solution directly prior to spraying and apply the entire batch within 8 hours.
- When in suspension, DIAFIL® 610B will settle if left undisturbed for more than 1 hour, therefore, mix prior to restarting the application.
- When proper coverage is obtained, a visible white residue will be apparent on the treated surface.

### **APPLICATION**

This product is for use in and around livestock and poultry houses and may be applied over the top while animals are present.

DIAFIL® 610 is intended for application using commercially available hand dusters, power dusters or other suitable means for application to areas where insect pests are found. DIAFIL® 610 can be applied simultaneously with sodium bisulfate as a carrier to aid in mechanical spreading or sequentially as a deliquescent salt to aid in adherence to target surfaces. Diafil® 610 and Sodium Bisulfate are to be used together for optimal effectiveness.

**Wettable Powder Mixing Instructions:**

1. Fill spray tank with water and add recommended rate of DIAFIL® 610 to match spray tank application acreage and mix to ensure dispersion.
2. Add optional non-ionic surfactant according to label rate.

**Notes:**

- The recommended maximum addition rate of DIAFIL® 610 to water is 1.65 lbs per gallon.
- Non-ionic surfactants are used to improve spreading on hydrophobic surfaces.
- It is advised to mix this solution directly prior to spraying and apply the entire batch within 8 hours.
- When in suspension, DIAFIL® 610 will settle if left undisturbed for more than 1 hour, therefore, mix prior to restarting the application.
- When proper coverage is obtained, a visible white residue will be apparent on the treated surface.

**POULTRY AND LIVESTOCK**

This product is intended for use in and around Poultry and Livestock housing structures, swine houses, cattle barns, calf hutches, loafing barns, horse stables and pet kennels to control insect pests and mites. All other treatments are prohibited. Apply uniformly to infested areas of walls and floors, cracks, crevices, bedding, wall voids and around window and door frames. Applications are permitted when animals are present and may be used over the top of animals. Applications are permitted mid-flock while birds are present, over the top of the birds. Litter should be retreated when replaced and before each new batch of poultry is introduced to the facility.

**Use Restriction:** Do not apply directly to animal feed or watering equipment.

**Litter Treatment:** Sodium bisulfate can be applied in poultry and livestock housing structures in conjunction with or directly before or after Diafil® 610 using a fertilizer spreader. Apply the sodium bisulfate at a rate of 50-200 lbs./1,000 sq. ft. depending on the amount of the litter. Apply the Diafil® 610 at a rate of 6 lbs. per 1,000 square feet over the litter, to the areas typically high in darkling beetle infestation, such as areas next to sidewalls and underneath feed and watering equipment lines. Bed bugs need to be contacted directly with this product. Applications can be made up to 150 lbs per 1,000 square feet for severe infestations. If litter is greater than 3 inches deep, apply up to an additional 2.5 lbs/1,000 square feet per additional inch of litter.

**Chicken Broiler Houses and Turkey Grow Out Houses**

| <b>Insect Pests</b>  | <b>Application Instructions:</b>  |
|--|---|
| Darkling Beetle (lesser mealworm)<br>Mealworms<br>Hide Beetles<br>Plant Parasitic Mites<br>Fleas | Apply 120 lbs of Diafil® 610 per 20,000 square foot house under feed and waterlines, and perimeter boundary using a rotary spreader, drop spreader or hand shaker . |
| Bed Bugs   | Apply 150 lbs of Diafil® 610 per 1,000 square foot house under feed and waterlines, and perimeter boundary using a rotary spreader, drop spreader or hand shaker .  |
| <b>Use Restrictions for Chicken Broiler Houses and Turkey Grow Out Houses:</b>                   |   |

Minimum Application Rate: 4 lbs DIAFIL® 610 per 1,000 square feet  
 Maximum Application Rate (per application): 150 lbs DIAFIL® 610 per 1,000 square feet  
 Maximum Application Rate (per year): 1,500 lbs DIAFIL® 610B per 1,000 square feet [1,275 lbs Silicon Dioxide]

**Poultry House Wall Treatment:**

The product is intended for Poultry House walls only. All other wall treatments are prohibited.

|   |  |
|---|--|
| <p><b>Insect Pests</b></p> <p>Darkling Beetle (lesser mealworm)<br/>         Mealworms<br/>         Hide Beetles<br/>         Plant Parasitic Mites<br/>         Fleas</p>  | <p><b>Application Instructions:</b></p> <p>Apply as a wettable powder to vertical surfaces paying particular attention to cracks and crevices. Mix at 0.5-1.0 lbs per gallon and apply a single, even coat to the target area to deliver 2-5 oz Diafil® 610B /100 square feet.</p> |
| <p><b>Use Restrictions for Poultry House Wall Treatments:</b></p> <p>Minimum Application Rate: 2 oz DIAFIL® 610B per 100 square feet<br/>         Maximum Application Rate (per application): 5 oz DIAFIL® 610B per 100 square feet.<br/>         Maximum Application Rate (per year): 500 oz DIAFIL® 610B per 100 square feet [425 oz Silicon Dioxide]</p> |  |

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Keep this product in its tightly closed original container. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. **If empty:** Offer for recycling if available or discard in a sanitary landfill. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**WARRANTY DISCLAIMER**

To the extent consistent with applicable law, Manufacturer makes no warranty, expressed or implied, regarding the performance of this product that extend beyond the statements made on this label.

{The following Optional marketing statements below may appear anywhere on either of the sub labels}

[Controls listed insects pests and Plant Parasitic Mites]

[Diatomaceous Earth based mechanical insecticide]

[Diatomaceous Earth (85% Silicon Dioxide)]

[Complementary Active to many integrated pest management programs]

[Broad Spectrum Mechanical Insecticide]

[Providing a physical mode of action]

[Diafil® 610 is a mechanical insecticide that provides a physical mode of action.]

[Crop protection, Poultry and livestock, Stored grain, Food areas of food/feed handling establishments, residential uses (indoor and outdoor application), commercial pest management]

[SUITABLE FOR USE TO CONTROL LISTED INSECT PESTS AND PLANT PARASITIC MITES]

[American Association of Poison Control Centers: +1 800 222 1222]

[International: Call Chemtec +1 703 527 3887]

{The following Optional graphics may appear on the Front Panel or elsewhere on Sublabels}



**IMERYS**

