352-729 7/25/2008 1/12

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**WASHINGTON, D.C. 20460**

**OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES**

Richard A. Carver
E.I. duPont de Nemours & Company
DuPont Crop Protection
P.O. Box 30
Newark, DE 19714-0030

JUL 25 2008

Dear Dr. Carver:

Subject: Labeling Amendment; Corrected Container Statements
Dupont Coragen Insect Control
EPA Registration No. 352-729
Submission Date: July 24, 2008

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the above mentioned label before releasing the product for shipment. If you have any questions regarding this label, please contact me at (703) 306-0415.

Sincerely yours,

Kable Bo Davis
Entomologist
Insecticide-Rodenticide Branch
Registration Division (7505P)

DUPONT®

# DuPont™ Coragen®

## insect control

### with the active ingredient RYNAXYPYR®

CORAGEN® is a suspension concentrate.

Contains 1.67 lb. active ingredient per gallon.

| GROUP | 28 | INSECTICIDE |
|---|---|---|

| *Active Ingredient* | *By Weight* |
|---|---|
| Chlorantraniliprole 3-Bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide | 18.4% |
| *Inert Ingredients* | 81.6% |
| TOTAL | 100.0% |

EPA Reg. No. 352-729 EPA Est. No. _____

**Nonrefillable Container**

Net: _____

*OR*

**Refillable Container**

Net: _____

[Note to EPA Reviewer: Appropriate container designation (one of the above) will be placed on the container label near the Net Contents section]

E. I. du Pont de Nemours and Company
1007 Market Street
Wilmington, Delaware 19898

ACCEPTED

JUL 25 2008

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 352-729

## PRECAUTIONARY STATEMENTS

### KEEP OUT OF REACH OF CHILDREN

Si usted no entiende la etiquete, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

### FIRST AID

For questions regarding emergency medical treatment, you may contact 1-800-441-3637 for information.

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

When used as directed this product does not present a hazard to humans or domestic animals.

### PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

Shoes plus socks.

After the product has been diluted in accordance with label directions for use, shirt, pants, socks, and shoes are sufficient Personal Protective Equipment. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

### USER SAFETY RECOMMENDATIONS

**USERS SHOULD:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates, oysters, and shrimp. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to use sites.

Surface Water Advisory-

This product may contaminate water through runoff. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

Ground Water Advisory-

This chemical has properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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## DIRECTIONS FOR USE

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

### RESTRICTIONS

- Do not treat plants grown for transplanting. Not for use in nurseries, plant propagation houses, or greenhouses by commercial transplant producers on plants being grown for transplanting.
- Use this product only in commercial and farm plantings.
- Not for use on ornamental plants or plants being grown for ornamental purposes.
- May be used on crops on this label grown for seed production.
- Not for use in home plantings.

### *AGRICULTURAL USE REQUIREMENTS*

DuPont™ CORAGEN® insect control must be used 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 the label about personal protective equipment, restricted-entry interval, and notification to workers (as applicable).

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 State or Tribal agency responsible for pesticide regulation.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

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:

- Long-sleeved shirt and long pants
- Shoes plus socks

CORAGEN® insect control must be used only in accordance with directions on this label or in separate DuPont supplemental labeling that may be made temporarily available through local distributors, as a result of new EPA approvals. DuPont will not be responsible for losses or damages resulting from use of this product in any manner not specifically stated on this label or other labels or bulletins published by DuPont. User assumes all risks associated with such non-specified use.

CORAGEN® is a suspension concentration that can be applied via drip chemigation or foliar spray to control listed insects. CORAGEN® is mixed with water for application.

CORAGEN® is a member of the anthranilic diamide class of insecticides with a novel mode of action acting on insect ryanodine receptors. Although CORAGEN® has contact activity, it is most effective through ingestion of treated plant material. After exposure to CORAGEN®, affected insects will rapidly stop feeding, become paralyzed, and typically die within 1 - 3 days. Time applications to the most susceptible insect pest stage, typically at egg hatch and/or newly hatched larvae, before populations reach damaging levels.

### *INTEGRATED PEST MANAGEMENT*

DuPont supports the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an IPM program, which can include biological, cultural, and genetic practices, aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, rotation of insecticides with different modes-of-action, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

### *BENEFICIAL ARTHROPODS*

CORAGEN® helps conserve certain beneficial arthropods (parasites and predators). While these beneficial arthropods cannot be relied upon to control pests, they are of potential value and can be monitored along with pests in pest management programs on these crops.

### *SCOUTING*

Monitor insect populations to determine whether or not there is a need for application of CORAGEN® based on locally determined economic thresholds. More than one treatment of CORAGEN® may be required to control a population of pests.

### *RESISTANCE MANAGEMENT*

For resistance management, CORAGEN® is a Group 28 Insecticide. Repeated and exclusive use of CORAGEN® or other Group 28 Insecticides may lead to the buildup of resistant strains of insects in some crops.

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, this product may be used as part of resistant management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of mode-of-action classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local or state agricultural authorities for details.

Unless directed otherwise in the specific crop/pest sections of this label, the best practices are to follow these instructions to delay the development of insecticide resistance: Avoid using the same mode of action (same insecticide group) on consecutive generations of insect pests. Make no more than 2 applications of CORAGEN® per generation to the same insect species on a crop. Application(s) to the next generation of target pest(s) must be with an effective product with a different mode of action. Make no more than 2 successive applications within a 30 day period to the same insect species on a crop. The following application to the target pest(s) must be with an effective product with a different mode of action.

If resistance to DuPont™ CORAGEN® develops in your area, CORAGEN® or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local DuPont Crop Protection company representative or agricultural advisor for the best alternate method of control for your area. For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at http://www.irac-online.org.

## APPLICATION

Apply at the specified rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

Apply follow-up treatments of CORAGEN®, as specified, to keep pest populations within threshold limits. Refer to the Resistance Management section of this label for further guidance on follow-up treatments. See individual crop sections of this label for specific minimum spray interval.

Use sufficient water to obtain thorough, uniform coverage. CORAGEN® may be applied by: ground (including drip chemigation or foliar) or aerial application equipment. For aerial application use the following directions unless otherwise specified in specific crop/pest sections of this label: use a minimum of 5 gallons per acre (gpa) of water. For all other application methods use the following directions, unless otherwise specified in specific crop/pest sections of this label: use a minimum of 10 gal per acre (GPA) of water for all crops.

Use of adjuvants is only allowed on certain crops - see specific crop instructions for adjuvants in the following crop tables. In some situations where coverage is difficult to achieve such as closed canopy, dense foliage, plants with waxy leaf surfaces, or less than optimum application equipment, an adjuvant may improve performance. Use only adjuvant products that are labeled for agricultural use and follow the directions on the manufacturer's label. Always conduct a premix test for compatibility. Use a proven, EPA-approved adjuvant that does not affect foliage and/or fruit finish. Refer to specific crop sections of this label for additional adjuvant guidance.

### *CROP ROTATION*

Crops that are on this label and the following crops or crop groups, Pome Fruits (Crop Group 11), Stone Fruits (Crop Group12), grape, potato, and cotton may be planted immediately following harvest. Members of the Root and Tuber Vegetables (Crop Group 1) and the Tops of Root and Tuber Vegetables (Crop Group 2) may also be planted immediately following harvest.

The following crops or crop groups may be planted 30 days following the last application of CORAGEN®: garlic, great-headed garlic, dry bulb onion, leek, green onion, Welsh onion, shallot, Legume Vegetables (Crop Group 6), Cereal Grains (Crop Group 15), cowpea, field pea, soybean, Grass Forage, Fodder and Hay (Crop Group 17), Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay) (Crop Group 18), peanut, sugarcane, asparagus, okra, strawberry.

All other crops cannot be planted until 12 months after the last application of CORAGEN®.

## SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying CORAGEN®. Fill spray tank 1/4 to 1/2 full of water. Add CORAGEN® directly to spray tank. Mix thoroughly to fully disperse the insecticide, once dispersed continued agitation is required. Use mechanical or hydraulic means; do not use air agitation. Do not store spray mix solutions overnight in spray tank. Observe the most restrictive of the labeling limitations and precautions of all products use in mixtures.

***Compatibility*** -Since formulations may be changed and new ones introduced, premix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.). Avoid mixtures of several materials and very concentrated spray mixtures.

This product can be mixed with pesticide products labeled for use on crops on this label in accordance with the most restrictive of label limitations and precautions. Do not exceed labeled dosage rates. This product cannot be mixed with any product containing a label prohibition against such mixing.

***Tank Mixing Sequence*** -Add different formulation types in the sequence indicated below*. Allow time for complete mixing and dispersion after addition of each product.

1. Water soluble bag.
2. Water dispersible granules.
3. Wettable powders.
4. CORAGEN® and other water based suspension concentrates.
5. Water-soluble concentrates.
6. Oil based suspension concentrates.
7. Emulsifiable concentrates.
8. Adjuvants, surfactants, oils.
9. Soluble fertilizers.
10. Drift retardants.

* Unless otherwise specified by manufacturer directions for use or by local experience.

| Crop | Application Method | Target Pest | DUPONT™ CORAGEN® RATE | | Last Application (Days to Harvest) | REI (Hours) |
|---|---|---|---|---|---|---|
| | | | Lb. ai per acre | fluid ounces product per acre | | |
| **Brassica (Cole) Leafy Vegetables** Including **Broccoli**, Broccoli (chinese), Broccoli raab, **Brussels sprouts**, **Cabbage**, Chinese cabbage (bok choy), Chinese cabbage (napa), Cabbage (Chinese mustard), **Cauliflower**, Cavalo broccolo, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens | DRIP CHEMIGATION† Drip chemigation is allowed in Texas only. | Beet armyworm<br>Diamondback moth*<br>Cabbage looper<br>Corn earworm<br>Cross -striped cabbageworm<br>Hawaiian beet webworm<br>Imported cabbageworm | 0.045 - 0.065 | 3.5 - 5.0 | 3 | 4 hr. |
| | FOLIAR†† | Beet armyworm<br>Cabbage looper<br>Corn earworm<br>Cross -striped cabbageworm<br>Diamondback moth*<br>Hawaiian beet webworm<br>Imported cabbageworm | 0.045 - 0.065 | 3.5 - 5.0 | | |
| | Minimum interval between treatments is 3 days for foliar applications and 10 days for drip chemigation applications.<br>Application via drip chemigation (TX only): drip tape must be placed directly underneath a single row to ensure CORAGEN® is applied in the root zone.<br>Do not apply more than 15.4 fl oz CORAGEN® (0.2 lbs a.i.) per acre per crop per season.<br>† **APPLICATION VIA DRIP (TRICKLE) CHEMIGATION**: CORAGEN® must be applied uniformly in the root zone or poor performance will result. Do not apply more than 10 fl oz (0.132 lb ai/acre) of CORAGEN® by drip chemigation per crop season. Do not make more than 2 drip chemigation applications of CORAGEN® per crop season. Refer to the APPLICATION VIA DRIP (TRICKLE) CHEMIGATION section of this label for additional guidance; also see the rate conversion chart for application rate per 1000 linear feet.<br>†† **FOLIAR**. For best performance use an effective adjuvant.<br><br>* Diamondback moth resistance management: Do not apply CORAGEN® more than twice to any generation of diamondback moth or within any 30 day period. After the second application of CORAGEN® for diamondback moth, rotate to another effective insecticide with a different mode of action (i.e.. a product with a different IRAC group number). Application(s) to the next generation of diamondback moth must be with an effective product with a different mode of action.<br>Do not apply less than 3.5 oz. of CORAGEN® per application per acre for diamondback moth control. Do not make more than 6 total applications per calendar year for control of diamondback moth at the same farm location. | | | | |

| Crop | Application Method | Target Pest | DUPONT™ CORAGEN® RATE | | Last Application (Days to Harvest) | REI (Hours) |
|---|---|---|---|---|---|---|
| | | | Lb. ai per acre | fluid ounces product per acre | | |
| **Cucurbit Vegetables** Including Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, **Cucumber,** Gherkin, Edible gourd (includes hyotan, cucuzza, hechima, Chinese okra), Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), **Pumpkin, Summer squash** (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter squash (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash), **Watermelon** | DRIP CHEMIGATION† Make application(s) within the first half of the crop growing cycle, typically up to peak bloom crop stage (usually approximately 40 days after crop emergence or transplanting. | Melon worm | 0.026 - 0.045 | 2.0 - 3.5 | 1 | 4 hr. |
| | | Beet armyworm<br>Cabbage looper<br>Pickle worm | 0.045 - 0.065 | 3.5 - 5.0 | | |
| | | Leafminers (larvae)*<br>Silverleaf whiteflies (nymphs)** | 0.065 - 0.098 | 5.0 - 7.5 | | |
| | FOLIAR | Melon worm | 0.026 - 0.065 | 2.0 - 5.0 | | |
| | | Beet armyworm<br>Cabbage looper<br>Hawaiian beet webworm<br>Pickle worm | 0.045 - 0.065 | 3.5 - 5.0 | | |
| | | Leafminers (larvae)*<br>Silverleaf whiteflies (nymphs)** | 0.065 - 0.09 | 5.0 - 7.0 | | |
| | Minimum interval between treatments is 5 days for foliar applications and 10 days for drip chemigation applications.<br>Do not apply more than 15.4 fl oz CORAGEN® (0.2 lbs a.i.) per acre per crop per season.<br><br>Do not use an adjuvant with applications of CORAGEN® to Cucurbit Vegetables, except on cucumber, Chinese waxgourd, gherkin, and momordica spp. (includes balsam apple, balsam pear, bitter melon, and Chinese cucumber).<br><br>Adjuvants may be used with CORAGEN® applications to cucumber, Chinese waxgourd, gherkin, and momordica spp. (includes balsam apple, balsam pear, bitter melon, and Chinese cucumber).<br>† **APPLICATION VIA DRIP (TRICKLE) CHEMIGATION**: CORAGEN® must be applied uniformly in the root zone or poor performance will result.<br>Do not apply more than 10 fl oz (0.132 lb ai/acre) of CORAGEN® by drip chemigation per crop season. Do not make more than 2 drip chemigation applications of CORAGEN® per crop season. Refer to the APPLICATION VIA DRIP (TRICKLE) CHEMIGATION section of this label for additional guidance; also see the rate conversion chart for application rate per 1000 linear feet.<br>* Control of *Liriomyza* species except suppression only for *L. huidabrensis* and *L. langei*.<br>** Suppression only. Use in conjunction with an effective adult whitefly control program. | | | | | |

| Crop | Application Method | Target Pest | DUPONT™ CORAGEN® RATE | | Last Application (Days to Harvest) | REI (Hours) |
|---|---|---|---|---|---|---|
| | | | Lb. ai per acre | fluid ounces product per acre | | |
| **Fruiting Vegetables** Including Eggplant, Groundcherry (*Physalis* spp.), Pepino, **Pepper**, (including bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, **Tomato** | DRIP CHEMIGATION† | Beet armyworm<br>Colorado potato beetle<br>European corn borer<br>Fall armyworm<br>Garden webworm<br>Hornworms<br>Loopers<br>Southern armyworm<br>Tomato fruitworm<br>Tomato pinworm<br>Western yellowstriped armyworm | 0.045 - 0.065 | 3.5 - 5.0 | 1 | 4 hr. |
| | | Leafminers (larvae)*<br>Silverleaf whiteflies (nymphs)** | 0.065 - 0.098 | 5.0 - 7.5 | | |
| | FOLIAR | Hornworms | 0.026 - 0.065 | 2.0 - 5.0 | | |
| | | Beet armyworm<br>Colorado potato beetle<br>European corn borer<br>Fall armyworm<br>Garden webworm<br>Loopers<br>Southern armyworm<br>Tomato fruitworm<br>Tomato pinworm<br>Western yellowstriped armyworm | 0.045 - 0.065 | 3.5 - 5.0 | | |
| | | Leafminers (larvae)*<br>Silverleaf whiteflies (nymphs)** | 0.065 - 0.098 | 5.0 - 7.5 | | |
| | Minimum interval between treatments is 5 days for foliar applications and 10 days for drip chemigation applications.<br>Do not apply more than 15.4 fl oz CORAGEN® (0.2 lbs a.i.) per acre per crop per season.<br><br>Do not use an adjuvant with applications of CORAGEN® to chili pepper or pimento.<br><br>Adjuvants may be used with CORAGEN® applications to eggplant, groundcherry, pepino, bell pepper, paprika, cooking pepper, sweet pepper, tomatillo, and tomato.<br>† **APPLICATION VIA DRIP (TRICKLE) CHEMIGATION**: CORAGEN® must be applied uniformly in the root zone or poor performance will result. Do not apply more than 10 fl oz (0.132 lb ai/acre) of CORAGEN® by drip chemigation per crop season. Do not make more than 2 drip chemigation applications of CORAGEN® per crop season.<br>Refer to theAPPLICATION VIA DRIP (TRICKLE) CHEMIGATION section of this label for additional guidance; also see the rate conversion chart for application rate per 1000 linear feet.<br>* Control of *Liriomyza* species except suppression only for *L. huidabrensis* and *L. langei.*<br>** Suppression only. Use in conjunction with an effective adult whitefly control program. | | | | | |

| Crop | Application Method | Target Pest | DUPONT™ CORAGEN® RATE | | Last Application (Days to Harvest) | REI (Hours) |
|---|---|---|---|---|---|---|
| | | | Lb. ai per acre | fluid ounces product per acre | | |
| **Leafy Vegetables (non-brassica)** Including Amaranth leafy, Arugula, Cardoon, **Celery**, Celery (chinese), Celtuce, Chevril, Chinese spinach, Chrysanthemum (edible leaved), Chrysanthemum, garland, Corn salad, Cress (garden), Cress (upland), Dandelion, leaves, Dock, Endive (escarole), Florence fennel, **Lettuce (head & leaf)**, Orach, Parsley, Purslane (garden), (winter), Radicchio, Rhubarb, **Spinach**, Spinach (vine), Spinach (New Zeland), Swiss chard, Tampala | DRIP CHEMIGATION† | Diamondback moth*<br>Beet armyworm<br>Corn earworm<br>Cabbage looper<br>Hawaiian beet webworm | 0.045 - 0.065 | 3.5 - 5.0 | 1 | 4 hr. |
| | | Leafminers (larvae)**<br>Silverleaf whiteflies (nymphs)*** | 0.065 - 0.098 | 5.0 - 7.5 | | |
| | FOLIAR | Corn earworm<br>Diamondback moth*<br>Beet armyworm<br>Cabbage looper<br>Hawaiian beet webworm | 0.045 - 0.065 | 3.5 - 5.0 | | |
| | | Leafminers (larvae)**<br>Silverleaf whiteflies (nymphs)*** | 0.065 - 0.098 | 5.0 - 7.5 | | |
| | Minimum interval between treatments is 3 days for foliar applications and 10 days for drip chemigation applications.<br>Do not apply more than 15.4 fl oz CORAGEN® (0.2 lbs a.i.) per acre per crop per season.<br><br>Do not use adjuvants with applications of CORAGEN® to amaranth; arugula; chervil; chrysanthemum, edible-leaved; chrysanthemum, garland; corn salad; cress, garden; cress, upland; dandelion; dock; endive; orach; parsley; purslane, garden; purslane, winter; spinach; spinach, New Zealand; and spinach, vine.<br><br>Adjuvants may be used with CORAGEN® applications to cardoon; celery, Chinese; celtuce; fennel, Florence; lettuce, head and leaf; radicchio; rhubarb; and Swiss chard.<br>† **APPLICATION VIA DRIP (TRICKLE) CHEMIGATION**: CORAGEN® must be applied uniformly in the root zone or poor performance will result. Do not apply more than 10 fl oz (0.132 lb ai/acre) of CORAGEN® by drip chemigation per crop season. Do not make more than 2 drip chemigation applications of CORAGEN® per crop season. Refer to the APPLICATION VIA DRIP (TRICKLE) CHEMIGATION section of this label for additional guidance; also see the rate conversion chart for application rate per 1000 linear feet.<br>* Diamondback moth resistance management: Do not apply CORAGEN® more than twice to any generation of diamondback moth or within any 30 day period. After the second application of CORAGEN® for diamondback moth, rotate to another effective insecticide with a different mode of action (i.e. a product with a different IRAC group number). Application(s) to the next generation of diamondback moth must be with an effective product with a different mode of action. Do not apply less than 3.5 oz. of CORAGEN® per application per acre for diamondback moth control. Do not make more than 6 total applications per calendar year for control of diamondback moth at the same farm location.<br>** Control of *Liriomyza* species except suppression only for *L. huidabrensis* and *L. langei*.<br>***Suppression only. Use in conjunction with an effective adult whitefly control program. | | | | | |

## CORAGEN® Conversion Chart for Drip (Trickle) Chemigation

| | Rate in Fluid Ounces Product / 1000 Row-Feet Based on Planted Row Spacing (in inches) of: | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fl oz/acre | 15 | 20 | 25 | 30 | 34 | 36 | 38 | 40 | 46 | 48 | 60 | 66 | 72 | 78 | 80 | 84 |
| 2 | | | | | | | | | | | 0.23 | 0.25 | 0.28 | 0.30 | 0.30 | 0.32 |
| 3.5 | | | | 0.20 | 0.23 | 0.24 | 0.25 | 0.27 | 0.29 | 0.32 | 0.40 | 0.44 | 0.48 | 0.52 | 0.53 | 0.56 |
| 5 | | 0.19 | 0.24 | 0.29 | 0.33 | 0.34 | 0.36 | 0.38 | 0.41 | 0.46 | 0.57 | 0.63 | 0.69 | 0.75 | 0.76 | 0.80 |
| 6 | | 0.23 | 0.29 | 0.34 | 0.39 | 0.41 | 0.44 | 0.46 | 0.49 | 0.55 | 0.69 | 0.76 | 0.83 | 0.90 | 0.91 | 0.96 |
| 7 | 0.20 | 0.27 | 0.33 | 0.40 | 0.46 | 0.48 | 0.51 | 0.53 | 0.58 | 0.64 | 0.80 | 0.88 | 0.96 | 1.04 | 1.07 | 1.13 |

Level and length of control is affected by rate applied.

Higher labeled rates may be required in heavy texture and/or high organic soils if application is made later in the crop development, or when pest pressure is high.

## SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

### IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets (>150 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage.

APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS!

See **Wind, Temperature and Humidity,** and **Surface Temperature Inversions** sections of this label.

*Controlling Droplet Size - General Techniques*

**Volume** -Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

**Pressure** -Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.

**Nozzle Type** -Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

*Controlling Droplet Size - Aircraft*

**Number of Nozzles** -Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.

**Nozzle Orientation** -Orienting nozzles so that the spray is emitted backwards, parallel to the air stream will produce larger droplets than other orientations.

**Nozzle Type** -Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.

Do not apply as a ULV application.

*BOOM LENGTH AND HEIGHT*

**Boom Length (aircraft)** -The boom length should not exceed 3/4 of the wing length; using shorter booms decreases drift potential. For helicopters use a boom length and position that prevents droplets from entering the rotor vortices.

**Boom Height (aircraft)** -Application more than 10 ft above the canopy increases the potential for spray drift.

**Boom Height (ground)** -Setting the boom at the lowest height, which provides uniform coverage, reduces the exposure of droplets to evaporation and wind. The boom should remain level with the crop and have minimal bounce.

### *WIND*

Drift potential increases at wind speeds of less than 3 mph (due to variable direction and inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID APPLICATIONS DURING GUSTY OR WINDLESS CONDITIONS.

**Note**: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

### *TEMPERATURE AND HUMIDITY*

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

### *SURFACE TEMPERATURE INVERSIONS*

Drift potential is high during a surface temperature inversion. Surface inversions restrict vertical air mixing, which causes small-suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Surface inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates a surface inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

### *SHIELDED SPRAYERS*

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

*AIR ASSISTED (AIRBLAST) FIELD CROP SPRAYERS*

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

*CHEMIGATION*

The following types of irrigation equipment may be used for chemigation applications: drip (trickle), or strip tubing irrigation systems. Application should be in sufficient water and of sufficient duration to apply the recommended rate evenly to the entire treated area. Do not allow irrigation

water to collect or run-off during chemigation. Inject DuPont™ CORAGEN® downstream from any water filtration system.

CORAGEN® should not be applied at the same time that a drip/irrigation line clean out product is being used as performance may be reduced. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact state extension service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Wear personal protective equipment as defined in the PPE section of the label for applicators and other handlers when making adjustments or repairs on the chemigation system when CORAGEN® is in the irrigation water. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system. A pesticide supply tank is recommended for the application of CORAGEN® in chemigation systems.

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label -prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

***REQUIRED SYSTEM SAFETY DEVICES***

1. The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Chemigation systems connected to public water systems must contain a functional, reduced- pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

**APPLICATIONS VIA DRIP (TRICKLE) CHEMIGATION**

CORAGEN® must be applied in a manner that ensures the product is in the root zone. CORAGEN® must be in the root zone to provide effective control of target pests. CORAGEN® does not readily move in the soil; CORAGEN® will typically move approximately 1 - 3 inches from the site of delivery into the soil. Unless directed otherwise in the specific crop sections of this label, a total of two applications can be made per crop season. Any subsequent CORAGEN® treatments must be foliar applications.

1. Do not begin applications until after crop emergence in direct seeded crops.
2. Do not make applications if soil moisture is below the level required for active plant growth.
3. This product must be applied uniformly in the root zone or poor performance will result. Drip tape or emitters must be located within or directly adjacent to the root zone.
4. The drip system must be properly designed, free of leaks, and operated in manner that provides uniform application of water throughout the field.
5. In most situations, this product should be applied during the first 1/3 of the irrigation cycle, starting just after the system has come up to pressure.
6. The minimum injection period is the time that it takes water to move from the injection point to the furthest emitter in the irrigation zone (propagation time). If this time is not known, it can be calculated by measuring the time for a soluble dye to move from the injection point to the farthest emitter. A longer injection improves uniformity throughout the zone, but needs to allow for at least an equal period of water to flush the system and move the product through the soil.

## SPRAY TANK CLEANOUT

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

## *STORAGE AND DISPOSAL*

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

**PESTICIDE STORAGE:** Do not subject to temperatures below 32 degrees F. Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING: Refer to the Net Contents section of this product's labeling for the applicable "Refillable Container" or "Nonrefillable Container" designation.**

**For Small (Capacity Equal to or Less Than 5 Gallons) Nonrefillable Plastic Containers:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**For Large (Capacity Greater Than 5 Gallons) Nonrefillable Plastic Containers:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**For All Refillable Containers:** Refillable container. Refill this container with chlorantraniliprole only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact DuPont at 1-800-441-3637, day or night.

**NOTICE TO BUYER**— Purchase of this material does not confer any rights under patents of countries outside of the United States.



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## LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read This Limitation of Warranty and Liability Before Buying or Using This Product. If the Terms Are Not Acceptable, Return the Product at Once, Unopened, and the Purchase Price Will Be Refunded.

It is impossible to eliminate all risks associated with the use of this product. Such risks arise from weather conditions, soil factors, off target movement, unconventional farming techniques, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of DuPont. These risks can cause: ineffectiveness of the product; crop injury, or; injury to non-target crops or plants.

DuPont does not agree to be an insurer of these risks. TO THE FULLEST EXTENT PERMITTED BY LAW, WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.

DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

DUPONT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE FULLEST EXTENT PERMITTED BY LAW, IN NO EVENT SHALL DUPONT OR SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BUYER'S OR USER'S BARGAINED-FOR EXPECTATION IS CROP PROTECTION. THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE EXCLUSIVE LIABILITY OF DUPONT OR SELLER, FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, TORT OR STRICT LIABILITY), WHETHER FROM FAILURE TO PERFORM OR INJURY TO CROPS OR OTHER PLANTS, AND RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT, OR AT THE ELECTION OF DUPONT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

DuPont or its Ag Retailer must have prompt notice of any claim so that an immediate inspection of buyer's or user's growing crops can be made. Buyer and all users shall promptly notify DuPont or a DuPont Ag Retailer of any claims, whether based on contract, negligence, strict liability, other tort or otherwise or be barred from any remedy.

This Limitation of Warranty and Liability may not be amended by any oral or written agreement.

**For product information call: 1-888-6-DUPONT**