



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

May 18, 2020

S.K. Theodorakis
U.S. Crop Protection Regulatory Lead
E.I. Du Pont de Nemours and Company
9330 Zionsville Road
Indianapolis, IN 46268

Subject: Label Amendment – Amendment to add a restriction for use in California on soybean seed.
Product Name: DuPont™ Lumiderm™ Insecticide Seed Treatment
EPA Registration Number: 352-858
Application Date: February 3rd, 2020
Decision Number: 560606

Dear Mr. Theodorakis

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is 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.

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 the Federal Insecticide Fungicide and Rodenticide Act 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) list 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

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with FIFRA section 6. If you have any questions, please contact Andrés Garzón by phone at (703) 347-8547, or via email at GarzonMoreno.Andres@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Gene Benbow".

Gene Benbow, Product Manager 7
Invertebrate & Vertebrate Branch 3
Registration Division (7505P)
Office of Pesticide Programs

(Base label):

GROUP 28 INSECTICIDE

DuPont® Lumiderm™**INSECTICIDE SEED TREATMENT**

[Alternate Brand Name: Lumiderm™]

For seed treatment applications to rapeseed/canola, mustard and soybean seed for pest management of sucking and chewing insects.

Active Ingredient

Cyantraniliprole 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-cyano-2-methyl-6-
[(methylamino) carbonyl]phenyl]-1H-pyrazole-5-carboxamide

50%

Other Ingredients

50%

TOTAL

100%

Lumiderm™ is a flowable suspension.
Contains 5.21 lb. active ingredient per gallon.**Keep Out of Reach of Children****CAUTION**

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

Precautionary Statements**Hazards to Humans and Domestic Animals****Personal Protective Equipment**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.
- Chemical resistant gloves made of any waterproof material (Category A such as natural rubber > 14 mils).

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.

First AidFor questions regarding emergency medical treatment, you may contact **1-800-441-3637** for information.**ACCEPTED**

05/18/2020

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 352-858

Environmental Hazards

This pesticide is toxic to aquatic invertebrates and oysters. Do not contaminate water when disposing of equipment wash water.

Physical or Chemical Hazards

Do not place product near or allow product to come into contact with strong oxidizing substances (such as potassium permanganate) since a hazardous chemical reaction may occur.

Nonrefillable Rigid Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons):

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:

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, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 5 Gallons):

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.

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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, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down):

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:

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

All Refillable Containers:

Storage and Disposal

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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:

Refillable container. Refilling Container: Refill this container with DuPont Lumiderm containing cyantraniliprole only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If leaks are found, do not reuse or transport container, contact DuPont at the number below for instructions. Disposing of Container: Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Do not transport if 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.

Refer to label booklet for Directions for Use.

Notice: Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-441-3637.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 352-858

EPA Est. _____

®™ Trademarks of Dow AgroSciences, DuPont or Pioneer and their affiliated companies or respective owners.

Produced for

E. I. du Pont de Nemours and Company
Chestnut Run Plaza, 974 Centre Road
Wilmington, Delaware 19805

Net Contents _____

(Cover/shipping container)

GROUP **28** INSECTICIDE**DuPont® Lumiderm™****INSECTICIDE SEED TREATMENT**

[Alternate Brand Name: Lumiderm™]

For seed treatment applications to rapeseed/canola, mustard and soybean seed for pest management of sucking and chewing insects.

Active Ingredient

Cyantraniliprole 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-cyano-2-methyl-6- [(methylamino) carbonyl]phenyl]-1H-pyrazole-5-carboxamide	50%
Other Ingredients	50%
TOTAL	100%

Lumiderm™ is a flowable suspension.
Contains 5.21 lb. active ingredient per gallon.

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[Page 1 through end)]

Precautionary Statements**Hazards to Humans and Domestic Animals**

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First Aid

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

Environmental Hazards

This pesticide is toxic to aquatic invertebrates and oysters. Do not contaminate water when disposing of equipment wash water.

Physical or Chemical Hazards

Do not place product near or allow product to come into contact with strong oxidizing substances (such as potassium permanganate) since a hazardous chemical reaction may occur.

Directions for Use

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

- Use this product only as a commercial seed treatment in rapeseed/canola, mustard or soybean seed.
- Treated seed must not be used for or mixed with food or animal feed, or processed for oil.

When applied according to this label, DuPont Lumiderm insecticide seed treatment will provide control of cutworms and flea beetles on rapeseed/canola and mustard. When applied according to this label, Lumiderm will reduce seed and root feeding damage caused by seed corn maggot, white grub and wireworms, reduce leaf feeding damage caused by bean leaf beetle, soybean aphids and leaf feeding thrips and will suppress the spread of certain viruses on soybeans. Consult your local DuPont Crop Protection company representative or agricultural advisor for guidance on predicted pest pressure based on historical field data for these pests in your area.

Early season improvement of plant health, vigor and stand optimizing crop potential can be experienced under all levels of insect pressure.

Lumiderm must be used in accordance with the directions for use on this label, or as otherwise permitted by FIFRA. Always read the entire label, including the Limitation of Warranty and Liability.

Lumiderm may be applied to rapeseed/canola, mustard or soybean seed. Rapeseed/canola and mustard seed are typically planted at a soil depth of 1/2 to 1 inch. Soybean seeds are typically planted at a minimum soil depth of 1 to 1-1/2 inches.

Treating significantly damaged seed or seed that is low in vigor or overall poor quality may result in reduced germination, seedling vigor and plant stand. Before treating an entire seed lot with the proposed seed treatment, treat a small portion of the seed lot and conduct subsequent germination tests. DuPont makes no guarantee regarding the germination of damaged or carryover treated seed, since seed quality and storage conditions are beyond the control of DuPont.

DuPont will not be responsible for losses or damages resulting from the use of this product in any manner not specifically stated on this label. User assumes all risks associated with such non-recommended use.

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.

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least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

All Refillable Containers: Refillable container. Refilling Container: Refill this container with DuPont Lumiderm containing cyantraniliprole only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If leaks are found, do not reuse or transport container, contact DuPont at the number below for instructions. Disposing of Container: Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Do not transport if 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.

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.

Insect Resistance Management

Lumiderm contains the active ingredient cyantraniliprole and is a Group 28 insecticide based on the mode of action classification system of the International Insecticide Resistance Action Committee (IRAC). Insecticides with the same Group Number affect the same biological site of action on the target pest and when used repeatedly in the same treatment area, naturally-occurring resistant individuals may survive correctly applied insecticide treatments, reproduce, and become dominant.

To avoid or delay the development of insecticide resistance, a resistance management strategy should be established for the use area. This strategy may include incorporation of cultural and biological control practices, alternation to different mode of action insecticides on succeeding generations, and targeting the most susceptible life stage. Consult your local or state agricultural authorities and product manufacturer for more information about developing a resistance management strategy.

Unless directed otherwise in the specific crop/pest sections of this label, the best practices are to follow

these guidelines to delay the development of insecticide resistance:

- Apply Lumiderm and other Group 28 insecticides within a single “treatment window” to minimize exposing multiple successive generations of a pest species to the same mode of action insecticides.
- A “treatment window” is defined as the period of insecticidal activity provided by one or more applications of products with the same mode of action.
- A “treatment window”, including residual control, should not exceed 30 days (the length of a typical pest generation).
- Within the Group 28 “treatment window”, make no more than 2 applications of a Group 28 insecticide.
- Following a Group 28 “treatment window”, rotate to a “treatment window” of effective insecticides with a different mode of action (Group Number).
- The period between Group 28 “treatment windows” should be at least 30 days.
- The total exposure of all Group 28 products applied throughout the crop cycle (from seedling to harvest) should not exceed approximately 50% of the crop cycle or 50% of the total number of insecticide applications targeted at the same pest species.
- For short cycle crops (< 50 days), the duration of the crop cycle may be considered as the Group 28 “treatment window” as long as no Group 28 insecticides are used during the next crop cycle at the same farm location.
- Avoid using less than labeled rates of DuPont Lumiderm when applied alone or in tank mixtures.
- Target the most susceptible insect life stages whenever possible.
- Monitor insect populations for product effectiveness. If poor performance occurs and it cannot be attributed to improper application or extreme weather conditions, a resistant pest population may be present. If resistance to Lumiderm develops in your area, Lumiderm or other products with a similar mode of action (Group 28) may not provide adequate control. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternate method of control for your area.

If Lumiderm or any other Group 28 insecticide was used, do not apply other Group 28 insecticides for control of the same pest (see crop tables for labeled pests) for at least 60 days after emergence. If replant is required and no other Group 28 insecticides were used within the treatment window, then replanting rapeseed/canola, mustard or soybean seed treated with Lumiderm is allowed. Application(s) for control of the same pest during the first 30-60 days must be with an effective product with a different mode of action (i.e. a product with a different IRAC Group Number) for at least a 30 day “treatment window” before making any applications of a Group 28 insecticide.

For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irc-online.org>.

Length of control:

The length of control provided by Lumiderm will depend on the rate used, the pest being controlled and the environmental conditions, such as soil type, soil moisture, soil pH, etc. Use the higher rates when high pest pressure is expected to occur, when the pest is expected to occur later in the crop stage or when pests are expected to be present continuously. Lumiderm will primarily have activity in the foliage of treated plants and will not provide protection within the blooms and fruit. Foliar applications of other products may be needed to protect these parts of the plant.

Application

Compatibility - Lumiderm may be applied as a water-based slurry with other registered seed treatment fungicides and insecticides 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. Potential mixing partners should be tested for physical compatibility with

Lumiderm and added dyes or polymers before mixing in a large tank for seed treatment.

The crop safety of all possible mixtures with Lumiderm has not been tested. When considering the use of a mixture without prior experience, or which is not specifically described on Lumiderm product labeling or in other DuPont product use instruction, it is important to first understand crop safety. Before treating an entire seed lot with the proposed seed treatment mixture, treat a small portion of the seed lot and conduct subsequent germination tests.

DuPont will not be responsible for any crop injury arising from the use of a mixture that is not specifically described on Lumiderm product labeling or in other DuPont product use instruction.

Use Rate

Use Lumiderm as directed to listed crop seeds in the following Use-Rate Tables for control of listed insects. Consult your DuPont Crop Protection company representative for further guidance.

Lumiderm Insecticide Seed Treatment Use-Rate Tables

Seed Crops	Pest*	fl oz Lumiderm/ 100 lb of seed	lb active ingredient/ 100 lb of seed	mL Lumiderm/ 100 kg of seed
Rapeseed including canola varieties, Mustard Seed	Flea Beetles	14.8 - 24.6	0.6 - 1.0	960 - 1600
	Cutworms	3.7 - 24.6	0.15 - 1.0	240 -1600

* Use the higher rates in areas that are predicted to have high pest pressure, in areas with high populations of striped flea beetle, or where extended early season control is required.

Seed Crop	Pest**	mg active ingredient/ seed	fl oz DuPont Lumiderm/ 100 lb of seed	lb active ingredient/ 100 lb of seed	fl oz Lumiderm / 140k seed unit	mL Lumiderm / 100 kg of seed
Soybean*	Bean leaf beetle, Leaf feeding thrips, Seed corn maggot, Soybean aphid, White grub, Wireworms	0.075 to 0.15	1.14 to 2.28	0.046 to 0.092	0.57 to 1.14	74 to 148

*Not registered for use in the State of California.

** Use the higher rates in areas that are predicted to have high pest pressure.

Lumiderm Soybean Seed Treatment Rate Table - Grower Guide

Treatment Rate Per Soybean Seed	Soybean Seeding Per Acre	Lb AI (Cyantraniliprole) Rate Per Acre
0.075 mg ai /seed	150,000 seeds	0.025
	200,000 seeds	0.033
	225,000 seeds	0.037
0.15 mg ai /seed	150,000 seeds	0.05
	200,000 seeds	0.066
	225,000 seeds	0.074

Restriction: Do not apply a total of more than 0.4 lb ai/A of cyantraniliprole - containing products per calendar year — this is the total cyantraniliprole applied by seed treatment, soil application, and foliar application.

Mixing Guidance

For use in commercial seed treaters only, operating standard, calibrated seed treatment equipment. Not for use in hopper box, planter box, slurry box, or other farmer applied applications. Treatment equipment must be clean and free of previous pesticide deposits before applying Lumiderm. Thoroughly mix recommended amount of Lumiderm with the required amount of water.

Add an EPA approved dye or colorant to treat the seeds per 40 CFR 153.155(b)(1) during the seed treatment process. Ensure that all treated seed are dyed an unnatural color.

Mixing Tank Cleanout

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

Drain mixing equipment. Thoroughly rinse mixing equipment and flush 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.

Crop Rotation

- Rapeseed/canola, mustard or soybean seed treated with Lumiderm may be replanted immediately if needed due to crop failure.
- Crops on this label and the following crops or crop groups may be planted immediately following the last application of a cyantraniliprole containing product: Brassica Leafy Greens (Crop Subgroup 4-16B) and Brassica Head and Stem Vegetables (Crop Group 5-16); Bulb Vegetables (Crop Group 3-07); Cotton; Cucurbit Vegetables (Crop Group 9); Fruiting Vegetables (Crop Group 8-10); Leafy Greens (Crop Subgroup 4-16A) and Leaf Petiole Vegetables (Crop Subgroup 22B); Celtsuce; Florence Fennel; Leaves of Root and Tuber Vegetables (Crop Group 2); Legume Vegetables (Crop Groups 6 and 7); Low Growing Berries (Berry and Fruit Crop Subgroup 13-07H); Oilseeds (Crop Group 20); Peanuts; Soybeans; Root and Tuber Vegetables (Crop Subgroups 1B and 1C); Tobacco.
- The following crops or crop groups may be planted 30 days following the last application of a cyantraniliprole containing product: Cereal Grains (Crop Group 15); Forage, Fodder and Straw of Cereal Grains (Crop Group 16); Grass Forage, Fodder and Hay (Crop Group 17); Nongrass Animal Feeds (forage, fodder, straw and hay) (Crop Group 18); Sugar beets.
- There is no plant back restriction for conversion of a treated field to, or for making a new or replacement planting into established orchards or fields of Bushberries (Crop Subgroup 13-07B); Caneberry Subgroup (Crop Subgroup 13-07A); Coffee; Citrus (Crop Group 10-10); Pome Fruits (Crop Group 11-10); Stone Fruits (Crop Group 12); Low Growing Berries (Crop Subgroup 13-07G); or Tree Nuts (Crop Group 14-12).
- All other crops cannot be planted until 12 months after the last application of a cyantraniliprole containing product.

Commercial Seed Bag Labeling

The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- Treated Seed. Do not use for food, feed or oil purposes.
- This seed has been treated with DuPont Lumiderm insecticide seed treatment (cyantraniliprole).

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing seeds treated with Lumiderm (cyantraniliprole):

- Store away from food or feed.
- Do not allow children, pets, or livestock to have access to treated seed.
- Wear long-sleeved shirt, long pants and chemical-resistant gloves when handling treated seed.
- Use of Lumiderm as a seed treatment must be communicated to all personnel involved in seasonal insect control recommendations.
- This product is highly toxic to bees. Ensure that the planting equipment is functioning properly in accordance with manufacturer specifications to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops and weeds.
- Rapeseed/canola and mustard seed are typically planted at a soil depth of 1/2 to 1 inch and soybean seed at a minimum depth of 1 to 1-1/2 inches.
- Treated seed exposed on soil surface may be hazardous to wildlife. Cover or collect seeds spilled during loading.
- Dispose of all excess treated seed by burying seed away from bodies of water. Leftover treated seed may be double sown around the headland or buried away from water sources in accordance with local requirements.
- Excess treated seed may be used for ethanol production only if (a) ethanol production by-products are not used for livestock feed and, (2) no measurable residues of pesticides remain in the ethanol by-products that are used in agronomic practice.
- Dispose of seed packaging in accordance with local requirements.
- Canola seed has been treated with maximum of 1.0 lb cyantraniliprole per 100 lb seed. Therefore, each 1 lb cyantraniliprole treated canola seed planted per acre results in an application of 0.01 lb cyantraniliprole/acre.
- Do not apply a total of more than 0.4 lb ai/A of cyantraniliprole containing products per calendar year — this is the total cyantraniliprole applied by seed treatment, soil application, and foliar application.
- Including the Lumiderm seed treatment, make no more than two applications of cyantraniliprole or other Group 28 products per generation to the same insect species on a crop or within a 30 day period (count planting date as day 1 if using treated seed). Application(s) to the next generation of target pest(s) must be with an effective product with a different mode of action (non-Group 28 insecticide).

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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. 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.

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