

Specimen Label



Dermacor[®]

X-100

SEED TREATMENT

[™]Trademarks of Corteva Agriscience and its affiliated companies
Dermacor[®] X-100 is a flowable suspension. Contains 5.21 lb. active ingredient per gallon.

CHLORANTRANILIPROLE	GROUP	28	INSECTICIDE
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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	50%
Other Ingredients	50%
TOTAL	100%

EPA Reg. No. 352-820

PRECAUTIONARY STATEMENTS KEEP OUT OF REACH OF CHILDREN

Si usted no entiende la etiqueta, 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 1-800-992-5994 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 impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. 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 loading of chlorantraniliprole from runoff water and sediment. 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. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

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
- Not for use on pre-germinated rice after the seed is soaked and drained
- Treated seed must not be used for or mixed with food or animal feed, or processed for oil.
- Do not use Dermacor X-100 treated rice field for the aquaculture of edible fish or crustacea (including crawfish) during the rice production cycle (planting through harvest).

AGRICULTURAL USE REQUIREMENTS

Dermacor X-100 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.

Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

When applied according to the Dermacor X-100 Rates table, Dermacor X-100 will provide protection against injury by rice water weevil larvae, and early to mid-season control of Mexican rice borer, rice stalk borer, and sugarcane borer. The target Dermacor X-100 treatment rate is 1.75 fluid ounces per acre (0.071 lbs active ingredient per acre). Do not use more than 0.084 lb ai per acre. For control-ling severe infestations or when longer residual control is desired, use the higher seeding rate for any given rate of Dermacor X-100 per 100 lbs of rice seed (see Rates - Grower Guide table). Consult your local Corteva Agriscience company representative or agricultural advisor for guidance on predicted pest pressure based on historical field data for these pests in your area. For specified application rates refer to the Dermacor X-100 Seed Treatment Rates - Processor Guide table.

Dermacor X-100 seed treatment must be used only in accordance with directions on this label or in separate supplemental labeling distributed by Corteva Agriscience as a result of EPA or State 24(c) approvals.

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

Dermacor X-100 may be applied to dry rice seed, including conventional, "Clearfield", and hybrid seed varieties, which will be drilled or broadcast.

For dry seed broadcast application, the rice seeds must be incorporated into the soil. Dry rice treated with Dermacor X-100 cannot be soaked or pre-germinated before planting.

Dermacor X-100 is a member of the anthranilic diamide class of insecticides with a novel mode of action acting on insect ryanodine receptors. Dermacor X-100 is effective through ingestion of treated plant material. After exposure to Dermacor X-100, affected insects will rapidly stop feeding, become paralyzed, and typically die within 1-3 days.

INTEGRATED PEST MANAGEMENT

Corteva Agriscience 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.

RESISTANCE MANAGEMENT

For resistance management, Dermacor X 100 is a Group 28 Insecticide. Repeated and exclusive use of Dermacor X-100 (chlorantraniliprole, belonging to the anthranilic diamide class of chemistry) 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.

If resistance to Dermacor X-100 develops in your area, Dermacor X-100 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,

consult your local Corteva Agriscience 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>.

CROP ROTATION

Crops on this label and the following crops or crop groups may be planted immediately following harvest: Artichoke; Asparagus; Banana/Plantain; Brassica (Cole) Leafy Vegetables (Crop Group 5); Cacao; Caneberry subgroup [Berry and Small Fruit Crop Group subgroup 13-07A]; Citrus (Crop Group 10); Coffee; Corn (field, pop, seed, and sweet); Cotton; Cucurbit Vegetables (Crop Group 9); Figs; Forage, Fodder, and Straw of Cereal Grains (Crop Group 16); Fruiting Vegetables (Crop Group 8); Grape; Grass Forage, Fodder and Hay (Crop Group 17); Herbs subgroup (Crop Group subgroup 19A); Hops; Leafy Vegetables (non-brassica, Crop Group 4); Legume Vegetables (Crop Group 6); Foliage of Legume Vegetables (Crop Group 7); Spearmint, tops and Peppermint, tops; Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay Crop Group 18); Okra; Olives; Peanuts; Persimmons; Pome Fruits (Crop Group 11); Pineapple; Pomegranates; Potato; Prickly Pear Cactus; Protected Seed Oilseeds (hare's-ear mustard, jojoba, lesquerella, lunaria, mustard seed, oil radish, poppy seed, rapeseed/canola, rose hip, sesame, tallowwood, tea oil plant); Root and Tuber Vegetables (Crop Group 1); Small Fruit Vine Climbing subgroup, except fuzzy kiwifruit [Berry and Small Fruit Crop Group subgroup 13-07F]; Stone Fruits (Crop Group 12); Strawberries; Sugarcane; Tree Nuts (Crop Group 14); Tobacco; Tops of Root and Tuber Vegetables (Crop Group 2); and Tropical Fruits (acerola, atemoya, avocado, biriba, black sapote, canistel, cherimoya, custard apple ilama, feijoa, guava, jaboticaba, longan, lychee, mamey sapote, mango, papaya, passionfruit, pulasan, rambutan, sapodilla, soursop, Spanish lime, star apple, starfruit, sugar apple, wax jamba, and White sapote (Casimiroa), and/or hybrids of these.

The following crops or crop groups may be planted 30 days following the last application of Dermacor X-100: garlic, greathheaded garlic, dry bulb onion, leek, green onion, Welsh onion, shallot, Cereal Grains (Crop Group 15), soybean, peanut and sugarcane.

All other crops cannot be planted until 12 months after the last application of Dermacor X-100.

APPLICATION AND MIXING GUIDANCE

Dermacor X-100 may be applied as a water-based slurry with other registered rice seed treatment materials, such as fungicides, micronutrients, and plant growth regulators.

Potential mixing partners should be tested for physical compatibility with Dermacor X-100 and added dyes or polymers before mixing in a large tank for seed treatment.

Avoid mixtures of several materials and very concentrated spray mixtures. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures. Do not mix this product with any product that prohibits such mixing. For application rate ranges refer to the Dermacor X-100 Seed Treatment Rates tables.

MIXING GUIDANCE

For use in commercial seed treaters only, operating standard, calibrated seed treatment equipment. Treatment equipment must be clean and free of previous pesticide deposits before applying Dermacor X-100. Add Dermacor X-100 directly to mixing tank. Mix thoroughly recommended amount of Dermacor X-100 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.

Dermacor X-100 Seed Treatment Rates - Processor Guide	
Rough Rice Seeding Rate (lbs. rice seed per acre)	Target Dermacor X-100 fl. oz. per 100 lb seed
120	1.50
100	1.75
90	2.00
70	2.50
35	5.00
30	6.00

Dermacor X-100 Seed Treatment Rates - Grower Guide			
Dermacor X-100 fl. oz. per 100 lb seed	Rough Rice Seeding Rate (lbs. rice seed per acre)		lb ai per acre range
	Low	High	
1.50	100	120	0.06-0.07
1.75	90	100	0.06-0.07
2.00	80	100	0.07-0.08
2.50	60	80	0.06-0.08
5.00	30	40	0.06-0.08
6.00	n/a	30	0.07

a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately

COMMERCIAL SEED BAG LABELING

In accordance with the Federal Seed Act and EPA 40CFR, seeds commercially treated with a pesticide must be labeled as follows:

- Treated Seed. Do not use for food, feed or oil purposes.
- This seed has been treated with Dermacor X-100 seed treatment (Chlorantraniliprole).
- Treated seed exposed on soil surface may be hazardous to aquatic invertebrates. Cover or collect seeds spilled during loading.
- Store away from food or feed.
- Dispose of all excess treated seed by burying seed away from bodies of water.
- For dry seed broadcast application, the rice seeds must be incorporated into the soil.
- Dermacor X-100 treated rice may be replanted if an emergency replanting due to crop failure occurs.
- Do not use Dermacor X-100 treated rice field for the aquaculture of edible fish or crustacea (including crawfish) during the rice production cycle (planting through harvest).

Crop Rotation

Crops on this label and the following crops or crop groups may be planted immediately following harvest: Artichoke; Asparagus; Banana/ Plantain; Brassica (Cole) Leafy Vegetables (Crop Group 5); Cacao; Caneberry subgroup [Berry and Small Fruit Crop Group subgroup 13-07A]; Citrus (Crop Group 10); Coffee; Corn (field, pop, seed, and sweet); Cotton; Cucurbit Vegetables (Crop Group 9); Figs; Forage, Fodder, and Straw of Cereal Grains (Crop Group 16); Fruiting Vegetables (Crop Group 8); Grape; Grass Forage, Fodder and Hay (Crop Group 17); Herbs subgroup (Crop Group subgroup 19A); Hops; Leafy Vegetables (nonbrassica, Crop Group 4); Legume Vegetables (Crop Group 6); Foliage of Legume Vegetables (Crop Group 7); Spearmint; Peppermint; Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay Crop Group 18); Okra; Olives; Peanuts; Persimmons; Pome Fruits (Crop Group 11); Pineapple; Pomegranates; Potato; Prickly Pear Cactus; Protected Seed Oilseeds (hare's-ear mustard, joboba, lesquerella, lunaria, mustard seed, oil radish, poppy seed, rapeseed/canola, rose hip, sesame, tallowwood, tea oil plant); Root and Tuber Vegetables (Crop Group 1); Small Fruit Vine Climbing subgroup, except fuzzy kiwifruit

[Berry and Small Fruit Crop Group subgroup 13- 07F]; Stone Fruits (Crop Group12); Strawberries; Sugarcane; Tree Nuts (Crop Group 14); Tobacco; Tops of Root and Tuber Vegetables (Crop Group 2); and Tropical Fruits (acerola, atemoya, avocado, biriba, black sapote, canistel, cherimoya, custard apple ilama, feijoa, guava, jaboticaba, longan, lychee, mamey sapote, mango, papaya, passionfruit, pulasan, rosebutan, sapodilla, soursop, Spanish lime, star apple, starfruit, sugar apple, wax jambu, and White sapote (Casimiroa), and/or hybrids of these.

The following crops or crop groups may be planted 30 days following the last application of Dermacor X-100: garlic; greathheaded garlic; dry bulb onion; leek; green onion; Welsh onion; shallot; Cereal Grains (Crop Group 15); soybean; peanut and sugarcane.

All other crops cannot be planted until 12 months after the last application of Dermacor X-100.

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.

Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons): 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, (a) for Plastic Containers, 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, or (b) 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.

STORAGE AND DISPOSAL (Cont.)

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 5 Gallons): 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, (a) for Plastic Containers, 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, or (b) 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): Nonrefillable container. Do not reuse or refill this container. Pressure rinse as follows: Empty the remaining product contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Insert pressure rinsing nozzle in the container, and rinse at about 40 PSI for at least 30 seconds. Drain rinsate for 10 seconds after the flow begins to drip. Pour or pump rinsate into application equipment or rinsate collection system. Then, (a) for Plastic Containers, 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, or (b) 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 Dermacor X-100 containing chlorantraniliprole 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.

Check for leaks after refilling and before transporting. 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, 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. Then, (a) for Plastic Containers, 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, or (b) 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 Corteva Agriscience at 1-800-992-5994, 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 Corteva Agriscience. 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.**

Corteva Agriscience 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.

LIMITATION OF WARRANTY AND LIABILITY (Cont.)

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, CORTEVA AGRISCIENCE MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL CORTEVA AGRISCIENCE 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. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE EXCLUSIVE LIABILITY OF CORTEVA AGRISCIENCE 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 CORTEVA AGRISCIENCE OR SELLER, THE REPLACEMENT OF THE PRODUCT.

To the extent consistent with applicable law that allows such requirement, Corteva Agriscience 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 Corteva Agriscience 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.

**Produced for
Corteva Agriscience LLC
9330 Zionsville Road
Indianapolis, IN 46268**

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Replaced Label: DuPont version SL-1732 021412

Revisions:

1. Revisions: Updated for Corteva Agriscience (from DuPont)