

# Willowood IMIDACLOPRID 4ST

**For use as a seed treatment to protect the seed of listed crops against listed pests.**

<b>ACTIVE INGREDIENT:</b>	<b>% BY WT.</b>
Imidacloprid: 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine.....	40.7%
<b>OTHER INGREDIENTS:</b> .....	59.3%
<b>TOTAL:</b> .....	100.0%

Contains 4.0 pounds of active ingredient per gallon.

Shake well before using.  
STOP - Read the label before use.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

#### FIRST AID

##### IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

##### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

##### IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

##### IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center, doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at **1-800-858-7378** Mon.-Fri., 8:00 a.m. to 12:00 p.m. Pacific Time (NPIC Web site: [www.npic.orst.edu](http://www.npic.orst.edu)).

**NOTE TO PHYSICIAN:** No specific antidote is available. Treat the patient symptomatically.

See inside booklet for complete Precautionary Statements, Directions For Use, Storage and Disposal, and Limitation of Warranty and Liability.

**Manufactured For:**  
Willowood, LLC  
1887 Whitney Mesa Drive #9740  
Henderson, NV 89014-2069  
20220429

EPA Reg. No. 87290-26

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION.** Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of nitrile rubber ≥ 14 mils., butyl rubber ≥ 14 mils., neoprene rubber ≥ 14 mils., barrier laminate, polyvinyl chloride (PVC) ≥ 14 mils., or viton ≥ 14 mils.
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment, PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### **ENGINEERING CONTROLS STATEMENT**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **USER SAFETY RECOMMENDATIONS**

**Users should:**

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

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to wildlife and highly toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Cover or incorporate spilled treated seeds.

This product is highly toxic to bees. Ensure that 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 or weeds.

#### **Groundwater Advisory**

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

### **DIRECTIONS FOR USE**

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

For use in commercial seed treatment facilities. Use is also permitted as an end-use seed treatment on agricultural establishments at planting, or immediately before planting, as specified in the **Specific Crop Use Directions**. This product is to be used in liquid or slurry treaters only.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the Agency responsible for pesticide regulation.

Mix thoroughly before use or use entire container at one time. All tank mixes should be pre-tested to determine physical compatibility between formulations. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

### AGRICULTURAL USE REQUIREMENTS

Use this product in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 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.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material such as nitrile rubber  $\geq$  14 mils., butyl rubber  $\geq$  14 mils., neoprene rubber  $\geq$  14 mils., barrier laminate, polyethylene, polyvinyl chloride (PVC)  $\geq$  14 mils., or viton  $\geq$  14 mils.
- Shoes plus socks

### ROTATIONAL CROPS

Treated areas may be replanted with any crop specified on an imidacloprid label, or any crop for which a tolerance exists for the active ingredient, as soon as practical following the last application. The following plant-back intervals are required for listed crops:

Rotational Plant-Back Intervals <sup>1</sup>				
Immediate Plant-Back				30-Day Plant-Back
Artichoke	Crambe	Oats	Soybean	Cereals, including: Buckwheat Rice
Barley	Cucurbits	Okra	Strawberry	
Brassica (cole)	Eggplant	Pepinos	Sugarbeet	
Leafy vegetable	Flax	Pepper	Sunflower	
Borage	Ground cherry	Popcorn	Tomatillo	
Bulb vegetable	Leaf petiole veg.	Potato	Tomato	
Canola	Leafy veg.	Rapeseed	Triticale	
Cilantro	Legume veg. (succulent or dried, including soybean)	Rye	Root and Tuber veg.	
Corn, Field	Millet	Safflower	Watercress	
Corn, Sweet	Mustard seed	Sorghum	Wheat	
Cotton				
Cranberry				

<sup>1</sup>Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed. For all other crops not listed on an Imidacloprid label, or for crops for which no tolerances for the active ingredient has been established, a 12-month plant-back interval is required.

**Notification** of the crop rotational restriction must be conveyed to the grower by appropriate seed tag labeling or bag printing on all seed units.

**IMPORTANT:** The purchaser of this product is responsible for ensuring that all seeds treated with this product are adequately dyed with a suitable color to prevent its accidental use as food for humans or feed for animals. Refer to 21 CFR, Part 2.25. Any dye or colorant added to treated seed must be cleared for use under 40 CFR, Part 180.1001. Federal regulations have established official tolerances for certain pesticide residues. In order that residues on food and forage crops will not exceed established tolerances, use only at specified rates.

Treated seed must not be used for or mixed with food or animal feed or processed for oil. Seed commercially treated with Willowood Imidacloprid 4ST must be labeled in accordance with all applicable requirements of the Federal Seed Act.

**Use Restrictions**

- DO NOT use as a planter (hopper) box treatment.
- DO NOT use treated seed for feed, food, or oil purposes.
- Store treated seed away from feeds and foodstuffs.
- DO NOT allow children, pets, or livestock to have access to treated seed.
- The maximum total application rate (including seed treatments, foliar applications, and soil applications) is 0.5 lb. imidacloprid per acre per calendar year.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Treated seed must not be used or mixed with food or animal feed.
- Exposed treated seed may be hazardous to birds. Cover or incorporate spilled treated seed. Excess or leftover seed may be double sown around the headland or buried away from bodies of water in accordance with local requirements.
- DO NOT contaminate water bodies when disposing of planting equipment washwater.
- Excess treated seed may be used for ethanol production only if (1) 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.

**SEED BAG LABELING REQUIREMENTS**

Seed commercially treated with this product must be labeled in accordance with all applicable requirements of the Federal Seed Act. The user of this product is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.

**THE FEDERAL SEED ACT REQUIRES THAT BAGS CONTAINING TREATED SEEDS BE LABELED WITH THE FOLLOWING STATEMENTS:**

This seed has been treated with Willowood Imidacloprid 4ST.  
DO NOT use treated seed for feed, food, or oil purposes.

**THE U.S. ENVIRONMENTAL PROTECTION AGENCY REQUIRES THE FOLLOWING STATEMENTS ON BAGS CONTAINING SEEDS TREATED WITH WILLOWOOD IMIDACLOPRID 4ST (IMIDACLOPRID)**

- Pollinator Precautions: Imidacloprid is highly toxic to bees. Ensure that 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 or weeds.
- Store away from feeds and foodstuffs.
- Wear long-sleeved shirt, long pants, and chemical-resistant gloves when handling treated seed.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Exposed treated seed may be hazardous to birds. Cover or incorporate spilled treated seeds. Excess or leftover seed may be double sown around the headland or buried away from bodies of water in accordance with local requirements.
- Dispose of seed packaging in accordance with local requirements.
- DO NOT contaminate water bodies when disposing of planting equipment washwater.
- DO NOT allow children, pets, or livestock to have access to treated seed.
- In the event of a crop failure or harvest of a crop grown from Willowood Imidacloprid 4ST treated seed, the field may be replanted immediately to artichoke, barley, borage, Brassica (cole) leafy vegetables, bulb vegetables, canola, cilantro, corn (field or sweet), cotton, cranberry, crambe, cucurbits, eggplant, flax, groundcherry, leafy petiole vegetables, leafy vegetables, legume vegetables (succulent or dried including soybean), millet, mustard seed, oats, okra, pepinos, pepper, popcorn, potato, rapeseed, rye, safflower, sorghum, soybean, strawberry, sugarbeets, sunflower, tomatillo, tomato, triticale, root and tuber vegetables, watercress, and wheat. For cereals, including buckwheat and rice, the minimum plant-back interval is 30 days from the date Willowood Imidacloprid 4ST treated seed was planted. Cover crops for soil building or erosion control may be planted at any time but do not graze or harvest for food or feed. For all other crops not listed on an imidacloprid label or for crops for which no imidacloprid tolerance for the active ingredient has been established, a 12-month plant-back interval must be observed.
- The maximum application rate (including seed treatment foliar application and soil application) per acre per calendar year for imidacloprid is 0.5 lb.
- This seed has been treated with   X   lbs. imidacloprid per 100 lbs. of seed [or   X   mg. imidacloprid per seed].
- Excess treated seed may be used for ethanol production only if (1) 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.

**SPECIFIC CROP USE DIRECTIONS**

<b>CARROT</b>	
To provide early season protection of seedlings against injury by listed pests, apply as a commercial seed treatment.	
<b>For Use In Commercial Seed Treatment Facilities</b>	
<b>Target Pest</b>	<b>Fl. Oz. Product (lbs. a.i.)/100 Lbs. Seed</b>
Seed corn maggot	8.0 (0.25 lb. a.i.)
Wireworm	

## CORN

For the protection of corn plants from the corn insect pests listed below, apply as a seed treatment at the specified rates.

### Field Corn

#### For Use In Commercial Seed Treatment Facilities

Target Pests	Fl. Oz. of Product/			Mg. a.i./Seed
	100 lbs. Seed	1,000 Seeds	80,000 Seed Count	
Corn rootworm (including Northern Western Southern and Mexican) <sup>1</sup> Flea beetle Chinch bug Southern green stinkbug White grub Seed corn maggot Thrips Wireworm Corn leaf aphid Imported fire ant Southern corn leaf beetle Billbug <sup>2</sup> Grape colaspis <sup>2</sup> Black cutworm <sup>3</sup>	16.9	0.095	7.57	1.34
Flea beetle Chinch bug Seed corn maggot Thrips Wireworm Corn leaf aphid Imported fire ant Grape colaspis <sup>2</sup> White grub	7.6	0.043	3.40	0.60
Seed corn maggot (seed protection only) Wireworm (seed protection only) Flea beetle (through 1-leaf stage) Imported fire ant White grub <sup>4</sup>	2.0	0.011	0.90	0.16

This product contains 14,200 mg. imidacloprid (a.i.)/fluid ounce based on a standard number of 1,786 seeds/lb. (100,000 seeds/56 lbs. bag).

<sup>1</sup>In areas of heavy to severe corn rootworm populations, protection will not be adequate. Use only in areas of light to moderate corn rootworm populations. Consult your State Agricultural Extension Service on levels of corn rootworm populations.

<sup>2</sup>Reduces early season feeding damage.

<sup>3</sup>Will reduce feeding damage caused by leaf feeding black cutworms that are 1/2 inch or less in length.

<sup>4</sup>Reduces feeding damage during emergence and seedling stages.

**IMPORTANT:** To maintain mg. a.i. / seed, adjust fluid ounces / 100 lbs. in proportion to the actual seeds / lb. compared to the standard number of seeds / lb. for that crop. Fluid ounces per number of seeds does not need to be adjusted. For example, if there are 1,600 corn seeds / lb. and the targeted rate is 0.16 mg. a.i. / seed at a non-adjusted rate of 2.0 fl. oz. / 100 lbs. of seed use  $(1,600 - 1,786) \times 2.0 = 1.79$  fl. oz. / 100 lbs. of seed.

#### For End Use Application At Agricultural Establishments

Apply using a HCBT or an 8-Bag Batch Treater. Shake this product thoroughly before use. Dilute this product with water and/or an approved Willowood, LLC fungicide mixture. Adjust the final slurry rate to apply a rate of 8 to 10 fluid ounces of diluted slurry per 50 pound bag of seed. Treat one half of slurry mix. Allow mixing until seed is thoroughly covered. Apply 0.75 ounce of dry TALC per 50 pound bag of seed following the product application and allow it to distribute evenly on the seed.

<b>Sweet Corn</b>				
<b>For Use In Commercial Seed Treatment Facilities</b>				
<b>Target Pests</b>	<b>Fl. Oz. Product (lbs. a.i.)/</b>			<b>Mg. a.i./Seed</b>
	<b>100 Lbs. Seed</b>	<b>1,000 Seeds</b>	<b>80,000 Seed Count</b>	
Flea beetle Early season corn leaf aphid Seed corn maggot Wireworm	8.0 (0.25 lb. a.i.)	0.044	3.6	0.64
Imported fire ant Early season corn leaf aphid Seed corn maggot Wireworm	4.0 - 8.0 (0.125 - 0.25 lb. a.i.)	0.022 - 0.044	1.80 - 3.60	0.32 - 0.64
Imported fire ant Seed corn maggot (seed protection) Wireworm (seed protection)	2.0 - 4.0 (0.0625 - 0.125 lb. a.i.)	0.011 - 0.022	0.90 - 1.80	0.16 - 0.32
Wireworm (seed protection)	1.0 - 2.0 (0.031 - 0.0625 lb. a.i.)			

Adjust the final slurry rate to apply 16 to 20 fluid ounces of diluted solution per 100 lbs. of seed with commercial equipment.

<b>Popcorn</b>				
<b>For Use In Commercial Seed Treatment Facilities</b>				
<b>Target Pests</b>	<b>Fl. Oz. Product (lbs. a.i.)/</b>			<b>Mg. a.i./Seed</b>
	<b>100 Lbs. Seed</b>	<b>1,000 Seeds</b>	<b>80,000 Seed Count</b>	
Flea beetles	8.0 (0.25 lb. a.i.)	0.044	3.6	0.64

<b>COTTON (Delinted Seed Only)</b>		
To provide protection of seedlings against injury by listed pests, apply as a seed treatment at the specified rates.		
<b>For Use In Commercial Seed Treatment Facilities</b>		
<b>Target Pests</b>	<b>Fl. Oz. Product/100 Lbs. Seed</b>	<b>Mg. a.i./Seed</b>
Thrips Aphids	16.0	0.375
<b>For End Use Application At Agricultural Establishments</b>		
Apply using a HCBT or an 8-Bag Batch Treater. Shake this product thoroughly before use. This product may be diluted with water or an approved Willowood, LLC fungicide mixture for extended disease protection. Adjust the final slurry rate to apply a rate of 8 to 10 fluid ounces of diluted slurry per 50 pound bag of seed. Treat one half of seed with one half of slurry mix. Add the balance of the seed and apply balance of slurry. Allow mixing until seed is thoroughly covered.		
<b>Target Pests</b>	<b>Fl. Oz. Product (lbs. a.i.)/50 Lbs. bag</b>	
Thrips Aphids	8.0 (0.25 lb. a.i.)	

**USE RESTRICTION:**

Regardless of the type of application (seed treatment soil or foliar), **DO NOT** apply more than a total of 0.5 pound of imidacloprid per acre per year.

**OIL SEED CROP GROUP**

To provide early season protection of seedlings against injury by listed pests, apply as a seed treatment at rates the specified.

**For Use In Commercial Seed Treatment Facilities**

Target Pests	Fl. Oz. Product (lbs. a.i.)/100 Lbs. Seed
Aphids Flea beetles Wireworms	12.8 - 30.0 (0.4 - 0.937 lb. a.i.)

In areas where flea beetles and foliar insects are in high numbers, use the higher application rate within the specified range. Consult your local agricultural office for pest patterns history and forecasts to assist in determining the appropriate rate for your region.

<b>For suppression of</b> 2 <sup>nd</sup> Generation Lygus bugs including <i>Lygus</i> spp. Seedpod weevil larvae including <i>Ceutorhynchus assimilis</i>	19.2 - 30.0 (0.594 - 0.937 lb. a.i.)
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**Flax, Crambe, and Borage**

Target Pests	Fl. Oz. Product (lbs. a.i.)/100 Lbs. Seed
Wireworms Seed corn maggots Flea beetles	30.0 (0.937 lb. a.i.)

**Safflower**

Target Pests	Mg. a.i./Seed
Wireworms	0.25 - 0.50 (14,200 mg. imidacloprid/fl. oz. product)

**Sunflower**

Target Pests	Mg. a.i./Seed
Wireworms Seed corn maggots Flea beetles	0.25 - 0.50 (14,200 mg. imidacloprid/fl. oz. product)

**For End Use Application At Agricultural Establishments**

Apply using a HCBT or a Batch Treater. Shake this product thoroughly before use. This product may be diluted with an approved Willowood, LLC fungicide mixture for extended disease protection. Treat one half of seed with one half of slurry mix. Add the balance of the seed and apply balance of slurry. Allow mixing until seed is thoroughly covered.

**Canola, Rapeseed, and Mustard Seed**

Target Pests	Fl. Oz. Product (lbs. a.i.)/50 Lbs. bag
Aphids Flea beetles Wireworms	6.4 - 16.0 (0.2 - 0.5 lb. a.i.)

**Flax, Sunflower, Crambe, and Borage**

Target Pests	Fl. Oz. Product (lbs. a.i.)/100 Lbs. bag
Wireworms Seed corn maggots Flea beetles	16.0 (0.5 lb. a.i.)

**Safflower**

Target Pests	Fl. Oz. Product (lbs. a.i.)/100 Lbs. bag
Wireworms	16.0 (0.5 lb. a.i.)

**USE RESTRICTIONS:**

Rape greens grown and harvested from this product's treated seed must not be used for human and feed consumption. Rapeseed grown and harvested from this product's treated seed is only for industrial uses and cannot be used for edible oil or any other human/feed consumption. Seed treated in California must be destined for planting in states other than California and is not to be planted in California.



### SEED AND POD VEGETABLES (Including)

Adzuki Bean, Asparagus Bean, Broad Bean (Succulent or Dry), Catjang Bean, Chinese Longbean, Field Bean, Guar Bean, Jackbean, Kidney Bean, Lablab, Bean Lima Bean (Succulent or Dry), Moth Bean (Succulent or Dry), Mung Bean, Navy Bean, Pinto Bean, Rice Bean, Runner Bean, Snap Bean, Sword Bean, Tepary Bean, Urd Bean, Wax Bean, Yardlong Bean, Blackeyed Pea (Succulent or Dry), Chickpea, Cowpea (Succulent or Dry), Crowder Pea, Dwarf Pea, Edible Pod Pea, English Pea, Field Pea, Garden Pea, Green Pea, Pigeon Pea (Succulent or Dry), Snow Pea, Southern Pea (Succulent or Dry), Sugar Snap, Pea Gram, Lupin, Sweet Lupin, White Lupin, White Sweet Lupin, Lentil

To provide early season protection of seedlings against injury by listed pests, apply as a seed treatment at the specified rates.

#### For Use In Commercial Seed Treatment Facilities

Target Pests	Fl. Oz. Product (lbs. a.i.)/100 Lbs. bag
Wireworm Bean leaf beetle Fire ant Aphids	2.0 - 4.0 (0.0625 - 0.125 lb. a.i.)

**USE RESTRICTION:**

Seed-and-pod vegetable seed treated in California must be destined for planting in states other than California and is not to be planted in California.

### SORGHUM

To provide early season protection of seedlings against injury by listed pests, apply as a seed treatment at the specified rates.

#### For Use In Commercial Seed Treatment Facilities

Target Pests	Fl. Oz. Product (lbs. a.i.)/100 Lbs. bag
Aphids (including Corn leaf, English grain, Greenbug, and Yellow sugarcane)	8.0 (0.25 lb. a.i.)
Chinch bugs Fire ants Wireworms	

#### For End Use Application At Agricultural Establishments

Apply using a HCBT or an 8-Bag Batch Treater. Shake this product thoroughly before use. Dilute this product with water. Adjust the final slurry rate to apply a rate of 8 to 10 fluid ounces of diluted slurry per 50 pound bag of seed. Treat one half of seed with one half of slurry mix. Add the balance of the seed and apply balance of slurry. Allow mixing until seed is thoroughly covered. Apply 0.75 ounce of dry TALC per 50 pound bag of seed following the product application and allow it to distribute evenly on the seed.

Target Pests	Fl. Oz. Product (lbs. a.i.)/50 Lbs. bag
Aphids (including Corn leaf, English grain, Greenbug, and Yellow sugarcane) Chinch bugs Fire ants Wireworms	4.0 (0.125 lb. a.i.)

**USE RESTRICTION:**

DO NOT graze or feed livestock on treated areas for 45 days after planting.



### SOYBEAN

To provide early season protection against injury by listed pests and to suppress the spread of certain viruses caused by insect vectors, apply as a seed treatment at the specified rates.

#### For Use In Commercial Seed Treatment Facilities

Use higher rates within the specified range to provide increased length of protection and for heavy insect pressure. This product can be used as an over-treatment.

Target Pests	Fl. Oz. of Product/			Mg. a.i./Seed
	100 Lbs. Seed*	1,000 Seeds	140,000 Seed Count	
Seed corn maggot Soybean aphids Bean leaf beetles (overwintering)	2.0 - 4.0	0.0067 - 0.0133	0.93 - 1.87	0.095 - 0.190

This product contains 14,200 mg. imidacloprid/fluid ounce.

\*Based on a standard number of 3,000 seeds / lb.

**IMPORTANT:** To maintain mg. a.i. / seed, adjust fluid ounces / 100 lbs. of seed in proportion to the actual seed count / lb. compared to the base number of seeds / lb. for that crop; fluid ounces per number of seeds (i.e., 1,000, 80,000, 140,000) does not need to be adjusted. For example, if there are 2,800 soybean seeds / lb. and the targeted rate is 0.095 mg. a.i. / seed at a non-adjusted rate per 2.0 fl. oz. /100 lbs. of seed, use:  $(2,800 \div 3,000) \times 2.0 = 1.87$  fl. oz. /100 lbs. of seed.

**USE RESTRICTION:**

DO NOT graze or feed livestock on soybean forage or hay.

### SUGARBEETS

To provide early season protection of seedlings against injury by listed pests, apply as a seed treatment at the specified rates.

#### For Use In Commercial Seed Treatment Facilities

Target Pests	Use Rate
Whitefly Aphids / Leafhoppers (including vectors that may spread Curly top and Yellow mosaic virus) Root aphids Thrips Wireworms	3.0 to 6.25 fluid ounces (0.0937 to 0.195 lb. a.i.) of this product in or on a unit of pelleted sugar beet seed with a weight ratio of 2:1 pelleting mixture to raw seed (seed count 100,000 seed approximately 1 kilogram by weight). Apply in a film coat directly to raw seed (100,000 seed or approximately 1 kilogram by weight) at a rate of 3.0 fluid ounces per unit of seed. If rates exceed 3.0 fluid ounces per unit, seed must be pelleted.

## WHEAT, BARLEY, OATS, RYE, TRITICALE

To provide early season protection of seedlings against injury by listed pests, apply as a seed treatment at the specified rates.

### For Use In Commercial Seed Treatment Facilities

Target Pests	Fl. Oz. Product (lbs. a.i.)/100 Lbs. bag
Aphids (including Bird cherry oat, English gram, Greenburg, and Russian wheat aphid) Hessian fly	1.0 - 3.0 (0.0313 – 0.0937 lb. a.i.)
For Suppression of Wireworm	0.16 - 0.33 (0.005 – 0.0103 lb. a.i.)
Grasshopper	1.5 - 3.0 (0.0468 – 0.0937 lb. a.i.)

Use the higher rate within the specified range to provide increased length of protection and to reduce potential spread of Barley yellow dwarf virus due to aphid vectors.

To reduce early season damage caused by grasshoppers, this product's treated seed may be planted as a 50 to 60 foot border around the edges of the field. Consult your local university extension entomologist for details regarding grasshopper control in your area. For maximum effectiveness, seed should be treated uniformly.

### For End Use Application At Agricultural Establishments

Apply using a Total Slurry Treater (TST), Farmer Applied Seed Treater (FAST), Farmer Air Pressure System (FAP), or other on farm liquid or slurry seed treating equipment to deliver accurate rates of this product to achieve optimum product performance. Combine this product with an approved Willowood, LLC fungicide product for seed and seedling protection against fungal pathogens. Dilution with water may be necessary depending on fungicide formulation used. This product may also be applied on farm as an over treatment to seed pretreated with a fungicide. In this case dilution is necessary.

#### USE RESTRICTION:

DO NOT graze or feed livestock on treated areas for 45 days after planting.

### ADDITIONAL USES

**Stored Seed Protection:** When applied according to use directions and at labeled rates equal to or above 1.0 fluid ounce (0.031 lb. a.i.) per 100 lbs. of seed, this product will provide protection to seed against injury from the following insects: Indian Meal Moth (*Plodia interpunctella*), Rice Weevil (*Sitophilus oryzae*), Red Flour Beetle (*Tribolium castaneum*), and Lesser Grain Borer (*Rhizopertha dominica*). It is recommended that seed with existing populations of stored gram pests be fumigated prior to treating and bagging seed.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool, dry place, out of direct sunlight, and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away.

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

#### CONTAINER HANDLING:

**Nonrefillable container (equal to or less than 5 gallons):** 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. Offer for recycling, if available or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration.

**Nonrefillable container (greater than 5 gallons):** 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 20 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 mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling, or puncture and dispose of in a sanitary landfill, or incineration.

### **LIMITATION OF WARRANTY AND LIABILITY**

Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Willowood, LLC. To the extent consistent with applicable law, such risks shall be assumed by the user or buyer.

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