



# Dyna-Shield®

## IMIDACLOPRID 5

FOR USE AS A SEED TREATMENT TO PROTECT THE SEED OF LISTED CROPS AGAINST LISTED PESTS

Contains 5.0 pounds active ingredient per gallon  
(600 grams per liter) @ 20 °C

**ACTIVE INGREDIENT:**

Imidacloprid: 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine .....	48.7%
OTHER INGREDIENTS .....	51.3%
<b>TOTAL</b>	<b>100.0%</b>

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

FIRST AID	
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p>Have a product container or label with you when calling a poison control center. <b>FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.</b></p>	

See inside label booklet for additional Precautionary Statements and Directions For Use.

EPA REG NO. 34704-940

EPA EST. NO. 34704-MS-001

NET CONTENTS 1.0 GAL (3.78 L)

031815 V1D 03G15

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

Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants,
- Socks and shoes,
- Chemical-resistant gloves (such as nitrile, butyl, neoprene, barrier laminate, polyvinyl chloride or viton).

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, 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.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is highly toxic to birds and aquatic invertebrates. For terrestrial uses, do not apply directly to water, or 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 wash waters. Cover or incorporate spilled treated seeds.

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.

**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. Follow the most restrictive precautions and limitations on the labeling of all products used in mixtures.

One fluid ounce of this product contains 17.7 grams imidacloprid.

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**AGRICULTURAL USE REQUIREMENTS**

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

**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 barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton,
- Shoes plus socks,
- Protective eyewear.

**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 must be observed for listed crops:

**ROTATIONAL PLANT-BACK INTERVALS\***

**IMMEDIATE PLANT-BACK**

Artichoke	Corn, sweet	Leafy greens	Pepper	Sugar beet
Barley	Cotton	Legume vegetables	Popcorn	Sunflower
Borage	Cranberry	(succulent or dried,	Potato	Tomatillo
Brassica (cole) leafy	Crambe	including soybean)	Rapeseed	Tomato
vegetables	Cucurbits	Millet	Rye	Triticale
Bulb vegetables	Eggplant	Mustard seed	Safflower	Root and Tuber
Canola	Flax	Oats	Sorghum	vegetables
Cilantro	Ground cherry	Okra	Soybean	Watercress
Corn, field	Leafy petiole vegetables	Pepinos	Strawberry	Wheat

**30-DAY PLANT-BACK**

Cereals, including  
Buckwheat  
Rice

\*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 tolerance for the active ingredient has been established, a 12-month plant-back interval must be observed.

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

**NOTE:** The purchaser of this product is responsible for ensuring that all seed treated with this product are adequately dyed with a suitable color to prevent its accidental use as food for man 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 Dyna-Shield® Imidacloprid 5 must be labeled in accordance with all applicable requirements of the Federal Seed Act.

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### 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 application rate for imidacloprid (including seed treatments, foliar applications, soil applications) is 0.5 pound per acre per calendar year. **DO NOT** apply more than 0.5 pound active ingredient imidacloprid per acre per calendar year.
- 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 seed. Excess or leftover seed may be double-sown around the headland or buried away from bodies of water in accordance with local requirements.

### 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 Dyna-Shield Imidacloprid 5.
- **DO NOT** use for feed, food, or oil purpose.

THE US ENVIRONMENTAL PROTECTION AGENCY REQUIRES THE FOLLOWING STATEMENTS ON BAGS CONTAINING SEEDS TREATED WITH DYNA-SHIELD IMIDACLOPRID 5.

- 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 wash water.
- **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 Dyna-Shield Imidacloprid 5 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 greens, 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 Dyna-Shield Imidacloprid 5 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 year for imidacloprid is 0.5 pound.
- This seed has been treated with   X   pounds imidacloprid per      pounds of seed [ or   X   milligrams 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.

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**SPECIFIC CROP USE DIRECTIONS**

**CARROT**

To provide early season protection of seedlings against injury by listed pests, apply as a commercial seed treatment.

**For Use in Commercial Seed Treatment Facilities**

<b>Target Pest</b>	<b>Fl Oz Product/100 Lb Seed</b>
Seed corn maggot	6.4
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**

<b>Target Pest</b>	<b>Fl Oz Product/</b>			<b>MG AI /Seed</b>
	<b>100 Lb Seed*</b>	<b>1000 Seeds</b>	<b>80,000 Seed Count</b>	
Billbug <sup>2</sup>	13.5	0.076	6.05	1.34
Black cutworm <sup>3</sup>				
Chinch bug				
Corn leaf aphid				
Corn rootworm (including Northern, Western, Southern and Mexican <sup>1</sup> )				
Flea beetle				
Grape colaspis <sup>2</sup>				
Imported fire ant				
Seed corn maggot				
Southern green stinkbug				
Southern corn leaf beetle				
Thrips				
White grub				
Wireworm				
Chinch bug	6.0	0.034	2.69	0.60
Corn leaf aphid				
Flea beetle				
Grape colaspis <sup>2</sup>				
Imported fire ant				
Seed corn maggot				
Thrips				
White grub				
Wireworm				
Flea beetle (through 1-leaf stage)	1.6	0.009	0.72	0.16
Imported fire ant				
Seed corn maggot (seed protection only)				
White grub <sup>4</sup>				
Wireworm (seed protection only)				

This product contains 17,700 milligrams imidacloprid (active ingredient) per fluid ounce.

\*based on a standard number of 1786 seeds per pound (100,000 seeds per 56-pound bushel)

<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.

**NOTE:** To maintain milligrams active ingredient per seed, adjust fluid ounces per 100 pounds in proportion to the actual seeds per pound compared to the standard number of seeds per pound for that crop; fluid ounces per number of seeds (i.e., 1000, 80,000, 140,000) does not need to be adjusted. For example, if there are 2800 corn seeds per pound and the targeted rate is 0.0946 milligram active ingredient per seed at a non-adjusted rate of 1.6 fluid ounces per 100 pounds of seed, use:  $(2800 \div 3000) \times 1.6 = 1.49$  fluid ounces per 100 pounds of seed.

**For End Use Application At Agricultural Establishments**

Apply using an HCBT or an 8-Bag Batch Treater. Shake this product thoroughly before use. Dilute this product with water and/or an approved Loveland Products, Inc. fungicide mixture. Adjust the final slurry rate to apply a rate of 8.0 to 10.0 fluid ounces of diluted slurry per 50-pound bag of seed. Treat 1/2 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.

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**Corn cont'd.:**

**Sweet Corn**

**For Use In Commercial Seed Treatment Facilities**

<b>Target Pests</b>	<b>Fl Oz Product/100 Lb Seed</b>
Early season corn leaf aphid	6.4
Flea beetle	
Seed corn maggot	
Wireworm	
Early season corn leaf aphid	3.2 to 6.4
Imported fire ant	
Seed corn maggot	
Wireworm	
Imported fire ant	1.6 to 3.2
Seed corn maggot (seed protection)	
Wireworm (seed protection)	
Wireworm (seed protection)	0.8 to 1.6

Adjust the final slurry rate to apply 16.0 to 20.0 fluid ounces of diluted solution per 100 pounds of seed with commercial equipment.

**Popcorn**

**For Use in Commercial Seed Treatment Facilities**

<b>Target Pest</b>	<b>Fl Oz Product/100 Lb Seed</b>
Flea beetles	6.4

**COTTON (Delinted Seed Only)**

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

**For Use in Commercial Seed Treatment Facilities**

<b>Target Pests</b>	<b>Fl Oz Product/100 Lb Seed</b>	<b>MG AI/Seed</b>
Aphids	12.8	0.375
Thrips		

**For End Use Application at Agricultural Establishments**

Apply using an HCBT or an 8-Bag Batch Treater. Shake this product thoroughly before use. This product may be diluted with water or an approved Loveland Products, Inc. fungicide mixture, such as Dyna-Shield Metalaxyl Fungicide, for extended disease protection. Adjust the final slurry rate to apply a rate of 8.0 to 10.0 fluid ounces of diluted slurry per 50-pound bag of seed. Treat 1/2 of seed with 1/2 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/50-Lb Bag</b>
Aphids	6.4
Thrips	

**USE RESTRICTIONS:**

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 CROPS (including):**

Borage, Canola, Crambe, Flax, Mustard seed, Rapeseed, Safflower and Sunflower

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**

<b>Canola, Mustard seed, Rapeseed</b>	
<b>Target Pests</b>	<b>Fl Oz Product/100 Lb Seed</b>
Aphids	10.24 to 25.6
Flea beetles	
Wireworms	

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.

**For suppression of:**

2nd generation Lygus bugs, including <i>Lygus</i> spp.	15.36 to 25.6
Seedpod weevil larvae including <i>Ceutorhynchus assimilis</i>	

**Borage\* Crambe\* and Flax\***

<b>Target Pests</b>	<b>Fl Oz Product/100 Lb Seed</b>
Flea beetles	25.6
Seed corn maggots	
Wireworms	

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**Oil Seed Crops cont'd.:**

**Safflower\***

Target Pests:	MG AI/Seed
Wireworms	0.25 to 0.50 (14,200 mg imidacloprid/fl oz product)

**Sunflower\***

Target Pests	MG AI/Seed
Flea beetles	0.25 to 0.50 (14,200 mg imidacloprid/fl oz product)
Seed corn maggots	
Wireworms	

**For End Use Application at Agricultural Establishments**

Apply using an HCBT or a 8-Bag Batch Treater. Shake this product thoroughly before use. This product may be diluted with an approved Loveland Products, Inc. fungicide mixture for extended disease protection. Treat 1/2 of seed with 1/2 of slurry mix. Add the balance of the seed and apply balance of slurry. Allow mixing until seed is thoroughly covered.

**Canola, Mustard seed, Rapeseed**

Target Pests	Fl Oz Product/50-Lb Bag
Aphids	5.1 to 12.8
Flea beetles	
Wireworms	

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

Target Pests	Fl Oz Product/100 Lb Seed
Flea beetles	12.8
Seed corn maggots	
Wireworms	

**Safflower\***

Target Pest	Fl Oz Product/100 Lb Seed
Wireworms	12.8

**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, Grain 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/100 Lb Seed
Aphids	1.6 to 3.2
Bean leaf beetle	
Fire ant	
Wireworm	

**USE RESTRICTIONS:**

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.

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**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/100 Lb Seed
Aphids (including Corn leaf, English grain, Greenbug, and Yellow sugar cane)	6.4
Chinch bugs	
Fire ants	
Wireworms	

**For End Use Application at Agricultural Establishments**

Apply using an 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 8.0 to 10.0 fluid ounces of diluted slurry per 50-pound bag of seed. Treat 1/2 of seed with 1/2 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/50 Lb Seed
Aphids (including Corn leaf, English grain, Greenbug, and Yellow sugar cane)	3.2
Chinch bugs	
Fire ants	
Wireworms	

**USE RESTRICTIONS:**

**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 Product /			MG AI/Seed
	100 Lb Seed*	1000 Seeds	140,000 Seed Count	
Seed corn maggot	1.6 to 3.2	0.0053 to	0.75 to 1.50	0.095 to 0.190
Soybean aphids		0.0107		
Bean leaf beetles (overwintering)				

This product contains 17,700 milligrams imidacloprid per fluid ounce.

\*based on a standard number of 3000 seeds per pound

**NOTE:** To maintain milligrams active ingredient per seed, adjust fluid ounces per 100 pounds of seed in proportion to the actual seed count per pound compared to the base number of seeds per pound for that crop; fluid ounces per number of seeds (i.e., 1000, 80,000, 140,000) does not need to be adjusted. For example, if there are 2800 soybean seeds per pound and the targeted rate is 0.095 milligrams active ingredient per seed at a non-adjusted rate per 1.6 fluid ounces per 100 pounds of seed, use:  $(2800 \div 3000) \times 1.6 = 1.4$  fluid ounces per 100 pounds of seed.

**USE RESTRICTIONS:**

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

**SUGAR BEETS**

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
Aphids / Leafhoppers (including vectors that may spread Curly top and Yellow mosaic virus)	2.4 to 5.0 oz 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 1.0 kg by weight). Apply in a film coat directly to raw seed (100,000 seed or approximately 1.0 kg by weight) at a rate of 2.4 fl oz/unit of seed. If rates exceed 2.4 fl oz/unit, seed must be pelleted.
Root aphids	
Thrips	
Whitefly	
Wireworms	



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**BARLEY, OATS, RYE, TRITICALE, WHEAT**

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**

<b>Target Pests</b>	<b>Fl Oz Product/100 Lb Seed</b>
Aphids (including Bird cherry-oat, English grain, Greenburg, and Russian wheat aphid)	0.8 to 2.4
Hessian fly	
<b>For Suppression of:</b>	
Wireworm	0.13 to 0.26
Grasshopper	1.2 to 2.4

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 Grasshopper, 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 Loveland Products, Inc. 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.

<b>Target Pests</b>	<b>Fl Oz Product/100 Lb Seed</b>
Aphids (including Bird cherry-oat, English grain, Greenburg, and Russian wheat aphid)	0.8 to 2.4
Hessian fly	
<b>For Suppression of:</b>	
Wireworm	0.13 to 0.26
Grasshopper	1.2 to 2.4

**USE RESTRICTIONS:**

**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 per 100 pounds 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 grain pests be fumigated prior to treating and bagging seed.

### STORAGE AND DISPOSAL

**PROHIBITIONS:** Do not contaminate water, food or feed by storage, disposal, or by cleaning of equipment. Do not reuse empty container. Open dumping is prohibited.

**PESTICIDE STORAGE:** Store in a cool place. Do not store in direct sunlight. Protect from freezing temperatures.

**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.** Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at [www.acrecycle.org](http://www.acrecycle.org).

Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**For packages up to 5 gallons: 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. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**For packages greater than 5 gallons and less than 56 gallons: 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. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**For packages greater than 56 gallons:** 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.

**For refillable containers:** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC - 1-800-424-9300.**

### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**BEFORE BUYING OR USING THIS PRODUCT**, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW, BUYER OR USER MUST SEND WRITTEN

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NOTICE OF ITS CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, P.O. BOX 1286, GREELEY, CO 80632-1286.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

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