

# Nitro Shield® IV

Insecticide For Treatment Of Labeled Crop Seed

St. Paul, MN 55164-0589

**ACTIVE INGREDIENTS:**

Imidacloprid: 1-[(6-Chloro-3-pyridinyl) methyl]-N-nitro-2-imidazolidinimine ..... 40.7%

**OTHER INGREDIENTS:** ..... 59.3%

**TOTAL** ..... 100.0%

Contains 4 lbs active per gallon (480 grams per liter)

KEEP OUT OF REACH OF CHILDREN

## CAUTION

SEE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS, COMPLETE DIRECTIONS FOR USE, WARRANTY DISCLAIMER AND LIMITATION OF LIABILITY.

FIRST AID	
<b>If Swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice. 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 15-20 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 mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. For additional information in case of medical emergency call toll free 1-877-424-7452.</p>	

NET CONTENTS:        2.5 GAL (9.46L)

EPA REG. NO. 1381-252  
EPA EST. NO. \_\_\_\_\_

DISTRIBUTED BY:  
WINFIELD SOLUTIONS, LLC  
P.O. BOX 64589

[BAR CODE]  
[UNITY # \_\_\_\_\_]  
[LOT # \_\_\_\_\_]

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**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)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants,
2. Socks and shoes and
3. 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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS**

Users should

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. 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 product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow to drift if bees are visiting the treatment area. Ensure that planting equipment is functioning properly in accordance with manufacturer specification to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds.

This product is toxic to wildlife and highly toxic to 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 washwaters. Cover or incorporate spilled treated seeds.

**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, with the exception of application to canola, cotton (delinted seed), field corn, sorghum, wheat, and barley, which may be made either by commercial seed treatment or as an end-use seed treatment on agricultural establishments at, or immediately before, planting.

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 must be pre-tested to determine physical compatibility between formulations. Take the most restrictive for all cautions and limitations on labeling of all products used in mixtures.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40CFR 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:

1. Coveralls,
2. Chemical-resistant gloves (such as nitrile, butyl, neoprene, barrier laminate, polyvinyl chloride or Viton),
3. Shoes plus socks,
4. Protective eyewear.

## RESISTANCE MANAGEMENT RECOMMENDATIONS

Nitro Shield IV contains a Group 4 Insecticide. Insect/mite biotypes with acquired resistance to Group 4 insecticides/acaricides may eventually dominate the insect/mite population if Group 4 insecticides/acaricides are used repeatedly in the same site or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Nitro Shield IV or other Group 4 insecticides/acaricides.

To delay insecticide resistance consider:

- Avoiding the consecutive use of Nitro Shield IV or Group 4 insecticides that have a similar target site of action, on the same insect/mite species.
- Using tank-mixtures or premixes with insecticides/acaricides from different target site of action Groups as long as the involved products are all registered for the same use and have different sites of action,
- Basing insecticide/acaricide use on a comprehensive IPM program.
- Monitoring treated insect/mite populations for loss of efficacy.
- Contacting your local extension specialist, certified crop advisors, and/or Winfield Solutions, LLC representative for herbicide resistance management and/or integrated pest management recommendations for specific site and resistant pest problems.

## USE RESTRICTIONS

- Do not use as a planter (hopper) box treatment.
- California: Only for use in commercial seed treatment facilities, not allowed for "on farm" use.
- On Farm Treatment: Do not apply this product through any type of irrigation system.
- Do not use for feed, food, or oil purposes.
- 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.
- Store away from feeds and foodstuffs.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds that are spilled during handling.
- Dispose of all excess treated seed. Leftover seed may be double sown around the headland or buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash water.

- In the event of crop failure or harvest of a crop grown from NITRO SHIELD® IV treated seed, the field may be replanted immediately to artichoke, barley, Brassica (cole) leafy vegetables, canola, cilantro, corn (field or sweet), cotton, cranberry, cucurbits, eggplant, groundcherry, leafy petiole vegetables, leafy vegetables, legume vegetables (succulent or dried), mustard seed, oats, okra, pepinos, pepper, popcorn, potato, rapeseed, sorghum, soybean, strawberry, sugarbeets, tomatillo, tomato, triticale, turnip greens, root and tuber vegetables, watercress, and wheat. For cereals, including buckwheat, millet, rice and rye and for safflower, the minimum plant back interval is 30 days from the date NITRO SHIELD® IV 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.
- Do not allow children, pets or livestock to have access to treated seed.
- The maximum application rate (all imidacloprid uses: seed treatment, foliar application, soil application) per acre per year for imidacloprid is 0.5 lb. Do not use more than 0.5 lb. (226.8 mg) per acre per year.
- Do not apply a neonicotinoid insecticide within 45 days of planting seed treated with NITRO SHIELD® IV.
- Notification of the crop rotational restriction must be conveyed to the grower by appropriate seed tag labeling or bag printing on all seed units.
- 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 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 labeled rates.
- Treated seed must not be used for or mixed with food or animal feed or processed for oil. Seed commercially treated with NITRO SHIELD® IV must be labeled in accordance with all applicable requirements under the Federal Seed Act.
- Labels for commercially treated seed should include the following addition to the Environmental Hazards statements:
  - **Exposed treated seed may be hazardous to birds. Dispose of all excess treated seed and seed packaging by burial away from bodies of water. Cover or incorporate spilled treated seeds.**
- Rape greens grown and harvested from NITRO SHIELD® IV treated seed must not be used for human and feed consumption. Rapeseed grown and harvested from treated seed is only for industrial uses and cannot be used for edible oil or any other human/feed consumption.

#### **STORED SEED PROTECTION**

To protect stored seed of crops listed on this label apply a minimum of 1.0 fluid ounce of NITRO SHIELD® IV per 100 pounds of seed. Pests controlled by this application include Indian Meal Moth (*Plodia interpunctella*), Rice Weevil (*Sitophilus oryzae*), Red Flour Beetle (*Tribolium castaneum*), and Lesser Grain Borer (*Rhizopertha dominica*). If seed being treated is known to have existing pest infestation fumigation may be necessary prior to bagging.

## EARLY-SEASON PROTECTION AGAINST SUCKING INSECTS

### OIL SEED CROP GROUP:

CROP	PEST	RATE (fluid ounces per hundredweight seed)	COMMENT
<b>Canola, Rapeseed, and Mustard Seed</b>	Aphids, Flea beetles, Wireworms	12.8 – 32.0	Use higher listed rate when pest populations are above historical levels.
	Lygus Bugs (including <i>Lygus</i> spp.), Seedpod Weevil larvae (including <i>Ceutorhynchus</i> <i>assimilis</i> )	19.2 – 32.0	Suppression only. Use higher listed rate when pest populations are above historical levels.
<b>Flax, crambe, and borage</b>	Wireworms, Seed corn maggots, Flea beetles	32.0	To provide early season protection, apply as a commercial seed treatment.
<b>Safflower</b>	Wireworms	See Comment	To provide early-season protection, apply as a commercial seed treatment at 0.25-0.50 mg per seed (one fl. oz. of NITRO SHIELD® IV contains 14.2 grams of imidacloprid)
<b>Sunflower</b>	Wireworms, Seed corn maggots, Flea beetles	See Comment	To provide early-season protection, apply as a commercial seed treatment at 0.25-0.50 mg per seed (one fl. oz. of NITRO SHIELD® IV contains 14.2 grams of imidacloprid)

### Oil Seed Crop Group: For End-Use Application at Agricultural Establishments.

#### Canola, Rapeseed and Mustard Seed (For end-use application at agricultural establishments):

Shake product well before making slurry and apply using a HCBT or Batch Treater. May be diluted with an approved fungicide for disease control. Treat ½ of seed with ½ of slurry then add remainder of seed and slurry and continue mixing until all seed are covered.

#### Flax, Sunflower, Crambe and Borage:

To provide early-season protection of seedlings against wireworms, seed corn maggots, and flea beetles apply using an HCBT or a Batch Treater at 16.0 fl. oz. per hundredweight of seed.

#### Use Restrictions:

- Rape greens grown and harvested from NITRO SHIELD® IV treated seed must not be used for human and feed consumption. Rapeseed grown and harvested from treated seed is only for industrial uses and cannot be used for edible oil or any other human/feed consumption.
- Do not graze or feed livestock on treated areas for 45 days after planting.

**FIELD CORN SEED:**

CROP	PEST	RATE (fluid ounces per 80,000 units of seed)	<u>COMMENT</u>
Field corn	Corn root worm (including Northern, Western, Southern and Mexican) (1), 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 (2), Grape colaspis (2), Black cutworm (3)	7.5 (equivalent to 1.34 milligrams ai per kernel)	(1) 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  (2) Reduces early season feeding damage.  (3) Will reduce feeding damage caused by leaf feeding black cutworms that are 1/2 inch or less in length.  (4) Reduces feeding damage during emergence and seedling stages.
	Flea beetle, Chinch bug, Seed corn maggot, Thrips, Wireworm, Corn leaf aphid, Imported fire ant, Grape colaspis (2), White grub	3.35 (Equivalent to 0.60 milligrams ai per kernel)	
	Seed corn maggot (seed protection only), Wireworm (seed protection only), Flea beetle (through 1 leaf stage), Imported fire ant, White grub (4)	0.90 (Equivalent to 0.16 milligrams ai per kernel)	

**Field Corn (For end-use application at agricultural establishments):**

**Not registered for use in California**

Shake product well before making slurry and apply using a HCBT or Eight-Bag Batch Treater. May be diluted with an approved fungicide for disease control. Mix slurry so that rate is 8 – 10 fluid ounces per 50 pound bag of seed. Treat ½ of seed with ½ of slurry then add remainder of seed and slurry and continue mixing until all seed are covered. After slurry treatment, the addition of dry talc at the rate of ¾ - 1 ounce per 50 pounds of seed is recommended to minimize risk of moisture buildup in the planter.

**Use Restriction:**

- Do not graze or feed livestock on treated areas for 45 days after planting.

**SWEET CORN AND POPCORN SEED:**

<b>CROP</b>	<b>PEST</b>	<b>RATE (fluid ounces per hundredweight seed)</b>	<b>COMMENTS</b>
<b>Sweet Corn (commercial seed treatment)</b>	Flea beetle, Early-season corn leaf aphid, Seed corn maggot, Wireworm	8.0	Mix slurry so that it is applied at a rate of 16 - 20 fl. oz. of diluted solution per hundredweight of seed.
	Imported fire ant, Early-season corn leaf aphid, Seed corn maggot, Wireworm	4.0 – 8.0	
	Imported fire ant, Seed corn maggot (seed protection), Wireworm (seed protection)	2.0 – 4.0	
	Wireworm (seed protection)	1.0 – 2.0	
<b>Popcorn (commercial seed treatment)</b>	Flea beetles	8.0	

**Use Restriction:**

- Do not graze or feed livestock on treated areas for 45 days after planting.

**CEREAL GRAIN SEEDS:**

<b>CROP</b>	<b>PEST</b>	<b>RATE (fluid ounces per hundredweight seed)</b>	<b>COMMENT</b>
<b>Wheat, Barley, Oats, Rye, Triticale</b>	Aphids (including Bird cherry-oat, English grain, Greenbug, and Russian wheat aphid), Hessian fly	1.0 – 3.0	Reduces possible yellow dwarf virus disease from aphid vectoring.  Use the higher listed rate to increase time of protection and/or when insect pressure is heavy.
	Wireworm	0.16 – 0.32	Suppression only.  Use the higher listed rate to increase time of protection and/or when insect pressure is heavy.
	Grasshopper	1.5 – 3.0	Treated seed may be planted as a 50 to 60 foot border around the perimeter of the field to help minimize early season damage from grasshoppers.  Consult your local agricultural extension agent for grasshopper control information specific to your area.  Use the higher listed rate to increase time of protection and/or when insect pressure is heavy.

**Use Restriction:**

- Do not graze or feed livestock on treated areas for 45 days after planting.

**Wheat, Barley, Triticale (For end-use application at agricultural establishments):**

Make application using a Total Slurry Treater (TST), Farmer Applied Seed Treater (F.A.S.T.), or other on-farm seed treating equipment capable of accurately applying low rates of NITRO SHIELD® IV. Apply 1.0 – 3.0 fl. oz. per hundredweight of seed. NITRO SHIELD® IV may be mixed with a fungicide product for protection against disease. NITRO SHIELD® IV may be applied to seed previously treated 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.

**SORGHUM AND MILLET SEED:**

CROP	PEST	RATE (fluid ounces per hundredweight seed)	COMMENT
Sorghum, Millet	Aphids (including Corn leaf, English grain, Greenbug, and Yellow sugar cane aphid), Chinch bugs, Imported Fire ants, Wireworms	8.0	Thorough coverage is necessary for optimal control.

**Use Restriction:**

- Do not graze or feed livestock on treated areas for 45 days after planting.

**Sorghum (For end-use application at agricultural establishments):**

Shake product well before making slurry and apply using a HCBT or Eight-Bag Batch Treater. May be diluted with an approved fungicide for disease control. Mix slurry so that rate is 8 – 10 fluid ounces per 50 pound bag of seed. Treat ½ of seed with ½ of slurry then add remainder of seed and slurry and continue mixing until all seed are covered. After slurry treatment, the addition of dry talc at the rate of ¾ - 1 ounce per 50 pounds of seed is recommended to minimize risk of moisture buildup in planter.

**Use Restriction:**

- Do not graze or feed livestock on treated areas for 45 days after planting.

**COTTON SEED TREATMENT:**

CROP	PEST	RATE (fluid ounces per hundredweight seed)	COMMENT
Cotton (Delinted Seed Only)	Thrips, Aphids	16.0 (Equivalent to 0.375 milligram active ingredient per seed)	Regardless of the type of application (seed treatment, soil or foliar) do not apply more than a total of 0.5 lb. of imidacloprid per acre per cropping cycle.

**Cotton (Delinted Seed Only) (For end-use application at agricultural establishments):**

Shake product well before making slurry and apply using a HCBT or Eight-Bag Batch Treater. May be diluted with an approved fungicide for disease control. Mix slurry so that rate is 8 – 10 fluid ounces per 50 pound bag of seed. Treat ½ of seed with ½ of slurry then add remainder of seed and slurry and continue mixing until all seed are covered.

**Use Restriction:**

- Do not graze or feed livestock on treated areas for 45 days after planting.



**SUGAR BEET SEED TREATMENT:**

<b>CROP</b>	<b>PEST</b>	<b>RATE (fluid ounces per seed unit) (1)</b>	<b>COMMENT</b>
<b>Sugar Beets (commercial seed treatment)</b>	Whitefly, Aphids (2), Leafhoppers (2), Root aphid, Thrips, Wireworms	3.0 – 6.25	(1) 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).  (2) Including to reduce risk of spread of Curly Top and Yellow mosaic virus.  If applying to non-pelleted raw seed, do not exceed a rate of 3.0 fluid ounces per 100,000 seed (approximately 1 Kg by weight).

**Use Restriction:**

- Do not graze or feed livestock on treated areas for 45 days after planting.

**SOYBEAN SEED TREATMENT:**

<b>CROP</b>	<b>PEST</b>	<b>RATE (fluid ounces per hundredweight seed)</b>	<b>COMMENT</b>
<b>Soybean</b>	Seed corn maggot, Soybean aphid, Bean leaf beetle	2.0 – 4.0	For protection of planted seeds. Use the higher listed rates to provide increased length of protection and for heavy insect pressure.  Will suppress the spread of certain plant viruses.  NITRO SHIELD® IV can be used as an over treatment.

**Use Restriction:**

- Do not graze or feed livestock on soybean forage or hay.

**VEGETABLE SEED TREATMENT:**

<b>CROP</b>	<b>PEST</b>	<b>RATE (fluid ounces per hundredweight seed)</b>
<b>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*</b>	Wireworm, Bean leaf beetle, Imported fire ant, Aphid	2.0 – 4.0
<b>Carrot</b>	Seed corn maggot, Wireworm	8.0

**Use Restrictions:**

- Do not graze or feed livestock on treated areas for 45 days after planting.
- \*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.

**POTATO SEED PIECE TREATMENT:**

<b>Pest Controlled</b>	<b>Rate Fluid ounces per 100 lbs of Seed</b>	<b>Rate Fluid ounces per acre*</b>
Aphids, Colorado potato beetle, Flea beetles, Leafhoppers, Potato psyllid, Wireworms (seed piece protection)	0.2-0.4	4.0-8.0
<b>Pest/Disease Suppressed</b>	<b>Rate Fluid ounces per 1000 row feet</b>	<b>Rate Fluid ounces per acre</b>
Symptoms of Potato leaf roll virus (PLRV), Potato yellows, Net necrosis	0.4	8.0

**Application Instructions:**

Apply specified dosage as a diluted spray onto seed pieces using a shielded spray system. Dilute with 3 parts water, or less, to 1 part NITRO SHIELD® IV. Agitate or stir spray solution as needed. Fungicidal or inert absorbent dusts may be applied after NITRO SHIELD® IV application. Apply only in areas with adequate ventilation or in areas that are equipped to remove spray mist or dust. Plant seed pieces as soon as possible after treating avoiding prolonged exposure of NITRO SHIELD® IV treated seed pieces to sunlight and in accordance with specifications of your local Extension service.  
\*Based on a seeding rate of 2000 lbs per acre

**Use Restrictions:**

- Do not apply more than 10.0 fluid ounces per acre (0.31 lb active ingredient per acre) NITRO SHIELD® IV per crop season when making seed piece treatment applications.
- Do not use treated seed pieces for food, feed, fodder or processing for oil.

- Do not apply any subsequent in furrow application of any imidacloprid product following a seed piece treatment.
- Do not graze or feed livestock on treated areas for 45 days after planting.

### 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				30-DAY PLANT-BACK
Artichoke	Cranberry	Mustard seed	Soybean	Cereals, including buckwheat rice
Barley	Cucurbits	Oats	Strawberry	
Brassica (cole) leafy vegetable	Eggplant	Okra	Sugarbeet	
Borage	Flax	Pepinos	Sunflower	
Canola	Groundcherry	Pepper	Tomatillo	
Cilantro	Leaf petiole vegetable	Popcorn	Tomato	
Corn, Field	Leafy vegetable	Potato	Triticale	
Corn, Sweet	Legume vegetable	Rapeseed	Vegetable Root and Tuber	
Cotton	(succulent or dried, including soybean)	Rye	Watercress	
Crambe	Millet	Safflower	Wheat	
		Sorghum		

\* 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 plantback interval must be observed.

### 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 SHALL BE LABELED WITH THE FOLLOWING STATEMENTS:

- This seed has been treated with imidacloprid insecticide.
- Do not use for feed, food or oil purposes.

THE U.S. ENVIRONMENTAL PROTECTION AGENCY REQUIRES THE FOLLOWING STATEMENTS ON BAGS CONTAINING SEEDS TREATED WITH NITRO SHIELD® IV:

- Pollinator Precautions: Imidacloprid is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Ensure that planting equipment is functioning properly in accordance with manufacturer specification to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds.
- Do not graze or feed livestock on treated areas for 45 days after planting Oil Seed Crops (canola, rapeseed, mustard seed, flax, crambe, borage, and safflower), Corn (field, sweet and popcorn), Cereal Grains (wheat, barley, oats, rye, and triticale), Sorghum and Millet, Cotton, Sugar Beet, Vegetable Seed (beans, peas, and carrots) and Potatoes. For soybeans, do not graze or feed livestock forage or hay.
- Store away from feeds and foodstuffs.
- Wear long-sleeved shirt, long pants and chemical-resistant gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds that are spilled during handling.
- Treated seed must be planted into the soil at a depth of greater than 1 inch.
- Dispose of all excess treated seed. Leftover seed may be double sown around the headland or

buried away from water sources in accordance with local requirements.

- Do not contaminate water bodies when disposing of planting equipment wash water.
- Dispose of seed packaging in accordance with local requirements.
- In the event of crop failure or harvest of a crop grown from NITRO SHIELD® IV treated seed, the field may be replanted immediately to artichoke, barley, Brassica (cole) leafy vegetables, canola, cilantro, corn (field or sweet), cotton, cranberry, cucurbits, eggplant, groundcherry, leafy petiole vegetables, leafy vegetables, legume vegetables (succulent or dried), mustard seed, oats, okra, pepinos, pepper, popcorn, potato, rapeseed, sorghum, soybean, strawberry, sugarbeet, tomatillo, tomato, triticale, turnip greens, root and tuber vegetables, watercress, and wheat. For cereals, including buckwheat, millet, rice and rye and for safflower, the minimum plant back interval is 30 days from the date NITRO SHIELD® IV 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.
- Do not allow children, pets, or livestock to have access to treated seed.
- The maximum application rate (all imidacloprid uses: seed treatment, foliar application, soil application) per acre per year for imidacloprid is 0.5 lb. Do not use more than 0.5 lb. (226.8 mg) per acre per year.
- This seed has been treated with  $\underline{X}$  mg imidacloprid.
- Do not apply a neonicotinoid insecticide within 45 days of planting seed treated with NITRO SHIELD® IV.
- 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.
- Rape greens grown and harvested from NITRO SHIELD® IV treated seed must not be used for human and feed consumption. Rapeseed grown and harvested from treated seed is only for industrial uses and cannot be used for edible oil or any other human/feed consumption.

## 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 DISPOSAL:

**Non-refillable containers (1, 2.5, 30 & 55 gallon):** Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**(non-refillable <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 ¼ 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.

**(non-refillable >5 gallons):** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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 (all sizes): 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.

**Refillable container (250 gallon & bulk):** 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 CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident, call  
CHEMTREC 1-800-424-9300.**

#### **WARRANTY DISCLAIMER**

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

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