

55146-121

6/29/2012

10815



U S ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave N W
Washington D C 20460

EPA Reg Number

55146 121

Date of Issuance

JUN 29 2012

NOTICE OF PESTICIDE

Registration
 Reregistration
(under FIFRA as amended)

Term of Issuance

Conditional

Name of Pesticide Product

Senator® 480 FS

Name and Address of Registrant (include ZIP Code)

Nufarm Americas Inc
4020 Aerial Center Parkway Suite 101
Morrisville NC 27560

ATTN Mr Nathan P Ehresman

Note Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce In any correspondence on this product always refer to the above EPA registration number

On the basis of information furnished by the registrant the above named pesticide is hereby registered under the Federal Insecticide Fungicide and Rodenticide Act

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency In order to protect health and the environment the Administrator on his motion may at any time suspend or cancel the registration of a pesticide in accordance with the Act The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you

- 1 Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data

Signature of Approving Official

Venus Eagle Product Manager 01
Insecticide Rodenticide Branch Registration Division (7505P)

Date

JUN 29 2012

- 2 Make the following label changes before you release the product for shipment
 - Revise the EPA Registration Number to read EPA Reg No 55146 121
- 3 Submit one copy of your final printed labeling before you release the product for shipment

A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSF

- Basic CSF dated February 7 2012

Your release for shipment of the product constitutes acceptance of the above conditions. If the conditions above are not complied with the registration will be subject to cancellation in accordance with FIFRA section 6(e). If you have any questions please contact Julie Chao at 703 308 8735 or chao.julie@epa.gov

Venus Eagle
Product Manager 01
Insecticide Rodenticide Branch
Registration Division (7505P)

Enclosure

30815

SENATOR® 480 FS

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

ACTIVE INGREDIENT

Imidacloprid

40.4%

OTHER INGREDIENTS

59.6%

TOTAL

100.0%

Contains 4 pounds active per gallon (480 grams per liter) @ 20 C

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill Leak Fire or Exposure Call CHEMTREC (800) 424 9300

For Medical Emergencies Only Call (877) 325 1840

EPA REG NO 55146 RER
EPA EST NO _____

MANUFACTURED FOR
NUFARM AMERICAS INC
AGT DIVISION
150 HARVESTER DRIVE
BURR RIDGE IL 60527



**ACCEPTED
With COMMENTS
In EPA Letter Dated**

JUN 29 2012

Under the Federal Insecticide Fungicide
and Rodenticide Act As amended for the
pesticide Registered under EPA Reg No

55146-121

NET CONTENTS _____ GALS (_____ Liters)

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION Harmful if inhaled Harmful if swallowed Causes moderate eye irritation Avoid breathing spray mist Remove and wash contaminated clothing before reuse Wash thoroughly with soap and water after handling and before eating drinking chewing gum or using tobacco Avoid contact with eyes or clothing Wear protective eye wear Wear long sleeved shirt and long pants socks shoes and chemical resistant gloves made of waterproof material such as barrier laminate butyl rubber nitrile rubber neoprene rubber natural rubber polyethylene polyvinylchloride (PVC) or viton

FIRST AID	
IF INHALED	<ul style="list-style-type: none"> • Move the 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 SWALLOWED	<ul style="list-style-type: none"> • 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 the poison control center or doctor DO NOT give anything by mouth to an unconscious person
IF IN EYES	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 to 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
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> Take off contaminated clothing Rinse skin immediately with plenty of water for 15 to 20 minutes • Call a poison control center or doctor for treatment advice
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment You may also contact 1 877 325 1840 for emergency medical treatment information	
NOTE TO PHYSICIAN	
No specific antidote is available Treat the patient symptomatically	

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear

- Long sleeved shirt and long pants
- 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

Follow manufacturer s instructions for cleaning/maintaining personal protective equipment PPE If no such instructions for washables use detergent and hot water Keep and wash PPE separately from other laundry

<p>USER SAFETY RECOMMENDATIONS</p> <p>Users Should</p> <p>Wash hands before eating drinking chewing gum using tobacco or using the toilet</p> <p>Remove clothing immediately if pesticide gets inside Then wash thoroughly and put on clean clothing</p> <p>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</p>

ENVIRONMENTAL HAZARDS

This product 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 washwaters 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 14.2 g imidacloprid

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

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 should 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 this product 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 application rate for imidacloprid (including seed treatments, foliar applications, soil applications) is 0.5 lbs per acre per year. **DO NOT** apply more than 0.5 lbs ai imidacloprid per acre per 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 SENATOR 480 FS (imidacloprid)
DO NOT use for feed food or oil purpose

THE US ENVIRONMENTAL PROTECTION AGENCY REQUIRES THE FOLLOWING STATEMENTS ON BAGS CONTAINING SEEDS TREATED WITH SENATOR 480 FS (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 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 SENATOR 480 FS 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 SENATOR 480 FS 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 lbs.
This seed has been treated with X lbs imidacloprid per 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

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	
Target Pest	Fluid Ounces Product / 100 lb seed
Seed corn maggot Wireworm	8 0

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	Fluid Ounces of Product /			MG AI / SEED
	100 lb seed	1000 seeds	80 000 seed count	
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	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 ² 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 ⁴	2 0	0 011	0 90	0 16

This product contains 14 200 mg imidacloprid (AI) / fluid ounce based on a standard number of 1786 seeds / lb (100 000 seeds / 56 lb bu)

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

NOTE To maintain mg ai / seed adjust fluid ounces / 100 lb in proportion to the actual seeds / lb compared to the standard number of seeds / lb 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 1600 corn seeds / lb and the targeted rate is 0.16 mg ai / seed at a non adjusted rate of 2.0 fl oz / 100 lb of seed use $(1600 - 1786) \times 2.0 = 1.79$ fl oz / 100 lb of seed

For End Use Application At Agricultural Establishments

Apply using an HCBT or an Eight Bag Batch Treater Shake this product thoroughly before use Dilute this product with water and/or an approved Nufarm 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

Sweet Corn

For Use In Commercial Seed Treatment Facilities

Target Pests	Fluid Ounces Product / 100 lb seed
Flea beetle Early season corn leaf aphid Seed corn maggot Wireworm	8.0
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

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

Popcorn

For Use In Commercial Seed Treatment Facilities

Target Pests	Fluid Ounces Product / 100 lb seed
Flea beetles	8.0

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

Target Pests	Fluid Ounces Product / 100 lb seed	MG AI/ SEED
Thrips Aphids	16.0	0.375

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 Nufarm fungicide mixture such as SEBRING 318 FS 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

Target Pests	Fluid Ounces Product / 50 lb bag
Thrips Aphids	8.0

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 CROP GROUP

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

Canola rapeseed mustard seed

Target Pests	Fluid Ounces Product / 100 lb seed
Aphids	12.8 - 32.0

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 2 nd Generation Lygus bugs including <i>Lygus</i> spp Seedpod weevil larvae including <i>Ceutorhynchus assimilis</i>	19.2 – 32.0
Flax crambe and borage	
Target Pests	Fluid Ounces Product / 100 lb seed
Wireworms Seed corn maggots Flea beetles	32.0
Safflower	
Target Pests	MG AI/ SEED
Wireworms	0.25 – 0.50 (14.200 mg imidacloprid / fluid ounce product)
Sunflower	
Target Pests	MG AI/ SEED
Wireworms Seed corn maggots Flea beetles	0.25 – 0.50 (14.200 g imidacloprid / fluid ounce product)
For End Use Application At Agricultural Establishments	
Apply using an HCBT or a Batch Treater Shake this product thoroughly before use This product may be diluted with an approved Nufarm 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 mustard seed	
Target Pests	Fluid Ounces Product / 50 lb bag
Aphids Flea beetles Wireworms	6.4 – 16.0
Flax sunflower crambe and borage	
Target Pests	Fluid Ounces Product / 100 lb seed
Wireworms Seed corn maggots Flea beetles	16.0
Safflower	
Target Pests	Fluid Ounces Product / 100 lb seed
Wireworms	16.0
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 Labtab 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	Fluid Ounces Product / 100 lb seed
Wireworm Bean leaf beetle	2.0 – 4.0

Fire ant Aphids	
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.	

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:	Fluid Ounces Product / 100 lb seed
Aphids (including Corn leaf, English grain, Greenbug, and Yellow sugar cane) Chinch bugs Fire ants Wireworms	8.0
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 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:	Fluid Ounces Product / 50 lb seed
Aphids (including Corn leaf, English grain, Greenbug, and Yellow sugar cane) Chinch bugs Fire ants Wireworms	4.0
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:	PRODUCT FLUID OUNCES /			MG AI/ SEED
	100 lb seed*	1000 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 3000 seeds / lb NOTE: To maintain mg ai / seed, adjust fluid ounces / 100 lb 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., 1000, 80,000, 140,000) does not need to be adjusted. For example if there are 2800 soybean seeds / lb and the targeted rate is 0.095 mg ai / seed at a non adjusted rate per 2.0 fl. oz / 100 lb. of seed, use: $(2800 \div 3000) \times 2.0 = 1.87$ fl. oz / 100 lb 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:

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 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
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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	Fluid Ounces Product / 100 lb seed
Aphids (including Bird cherry oat English grain Greenburg and Russian wheat aphid) Hessian fly	1 0 – 3 0
For Suppression of Wireworm	0 16 – 0 33
Grasshopper	1 5 – 3 0

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 (F A S T) 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 Nufarm 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

Target Pests	Fluid Ounces Product / 100 lb seed
Aphids (including Bird cherry oat English grain Greenburg and Russian wheat aphid) Hessian fly	1 0 – 3 0
For Suppression of Wireworm	0 16 – 0 33
Grasshopper	1 5 – 3 0

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 lb 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

DO NOT contaminate water food or feed by storage or disposal

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 [HANDLING]

[Nonrefillable Containers 5 Gallons or Less]

Nonrefillable container DO NOT reuse or refill this container Offer for recycling if available Triple rinse container (or equivalent) promptly after emptying **Triple rinse as follows** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container 1/4 full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities Plastic containers are also disposable by incineration or if allowed by State and local authorities by burning If burned stay out of smoke

[Nonrefillable containers larger than 5 gallons]

Nonrefillable container DO NOT reuse or refill this container Offer for recycling if available If recycling or reconditioning not available puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities Plastic containers are also disposable by incineration or if allowed by State and local authorities by burning If burned stay out of smoke Triple rinse or pressure rinse container (or equivalent) promptly after emptying

Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container 1/4 full with water Replace and tighten closures Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure two more times

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

[Refillable containers larger than 5 gallons]

Refillable container 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 a mix tank Fill the container about 10% full with water Agitate vigorously or recirculate water with the pump for two minutes Pour or pump rinsate into application equipment or rinsate collection system Repeat this rinsing procedure two more times For final disposal offer for recycling if available If recycling or reconditioning not available puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities

WARRANTY DISCLAIMER

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