

Nivales™

Fungicide

SPECIMEN LABEL

GROUP 12 FUNGICIDE

For control of certain foliar, stem, and root diseases in turfgrass including golf courses, institutional, commercial and residential lawns, sod farms, sports fields, parks, municipal grounds and cemeteries and of ornamentals grown in interiorscapes, field nursery plantings, container nurseries, forest nurseries, residential and commercial landscapes, greenhouses, lath and shade houses, or other enclosed structures.

Sale, use and distribution of this product in Nassau and Suffolk counties in the State of New York is prohibited.

ACTIVE INGREDIENT:

Fludioxonil 11.8%

OTHER INGREDIENTS 88.2%

TOTAL 100.0%

*CAS No. 131341-86-1

NIVALES™ is a suspension concentrate containing 1.04 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

IF SWALLOWED:

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

IF IN EYES:

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

Have the product or label with you when calling a doctor, poison control center, or going for treatment.

HOT LINE NUMBER

For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) call 1-800-888-8372.

See additional **PRECAUTIONARY STATEMENTS** and complete **DIRECTIONS FOR USE** inside booklet.

EPA Reg. No. 42750-255

EPA Est. No. 42750-MO-001

Manufactured By:

ALBAUGH, LLC

1525 NE 36th Street • Ankeny, Iowa 50021

AD090514C
EPA 090514 (10/14)

Net Contents: 1 Gallon

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

USER SAFETY REQUIREMENTS

Follow the 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.

ENGINEERING CONTROLS

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

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing/PPE 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 into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses: This product is toxic to fish, aquatic invertebrates, and oysters and shrimp. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

GROUND WATER ADVISORY

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

SURFACE WATER ADVISORY

This chemical may contaminate water through drift of spray in wind. This chemical has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this chemical. A level, well maintained vegetative buffer strip between areas to which this chemical is applied and surface water features such as ponds, streams, and springs, will reduce the potential for contamination of water from rainfall runoff. Runoff of this chemical will be reduced by avoiding applications when conditions favor runoff, such as when soils are saturated and/or significant rainfall is forecast in the next 48 hours. Sound erosion control practices will reduce this chemical's contribution to surface water contamination.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame. Do not mix or allow coming into contact with oxidizing agent. Hazardous chemical reaction may occur.

DIRECTIONS FOR USE

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

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL OR PLANT INJURY.

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.

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 product is applied by drenching, 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:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made from any waterproof material
- Shoes plus socks
- Protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

USE RESTRICTIONS AND PRECAUTIONS

Sale, use and distribution of this product in Nassau and Suffolk counties in the State of New York is prohibited. **Hawaii:** Use is limited to ornamentals grown in interiorscapes, greenhouses, lath and shade houses, containers, or other enclosed structures. Do not apply product with any type of aircraft.

RESISTANCE MANAGEMENT

GROUP **12** FUNGICIDE

NIVALES™ is a protective fungicide used to aid in the control of soil-borne diseases.

(continued)

NIVALES™ contains fludioxonil which is in the phenylpyrrole class of chemistry and has a unique mode of action, which prevents fungal respiration (Fungicide Action Group 12). Fungal isolates with acquired resistance to Group 12 may eventually dominate the fungal population if Group 12 fungicides are used repeatedly 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 fludioxonil or other Group 12 fungicides. A disease management program that includes alternation or tank mixes between NIVALES™ and other labeled fungicides that have a different mode of action, may prevent pathogen populations from developing resistance. Cultural practices to minimize disease are also recommended to aid in control, as well as to assist in preventing/delaying resistance development.

MIXING PROCEDURES

Prepare no more mixture than is needed for the immediate operation. Thoroughly clean the spray equipment before using NIVALES™. Agitation is necessary to maintain uniformity of the spray mixture. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

NIVALES™ Alone: Add 1/3 of the required amount of water to the spray or mixing tank. With the agitator running, add the required amount of NIVALES™ into the spray tank all at once. Continue agitation while adding the remainder of the water. Begin application of the spray solution after the material has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

NIVALES™ + Tank Mixtures: To determine the physical compatibility of NIVALES™ with other products, use a jar test, as described below.

Jar Compatibility Test: Using a quart jar, add the proportionate amounts of the products to 1 qt. of water. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

To determine biological compatibility with other products, mix the products in the desired proportions, apply per label directions on a small area or small number of plants for phytotoxicity prior to widespread use.

Plant tolerance has been found acceptable for ornamentals listed in the **ORNAMENTALS** section of this label. However, not all possible tank-mix combinations have been tested under all conditions. When possible, it is recommended to test the combinations on a small portion of target plants to ensure a phytotoxic response will not occur as a result of application.

NOTE: Use with oils or adjuvants may cause plant damage.

If using NIVALES™ in a tank mixture, observe all directions for use, use rates, dilution ratios, precautions, and limitations which appear on the tank-mix product label. Do not exceed any label dosage rates and follow the most restrictive label precautions and limitations. Do not mix this product with any product that prohibits such mixing. This product should not be mixed with any product which prohibits such mixing. Tank mixtures are permitted only in those states where the tank-mix partner is registered.

Add 1/3 of the required amount of water to the spray or mixing tank. With the agitator running, add the required amount of NIVALES™ into the tank. Continue agitation while adding the remainder of the water. Then add the desired amount of other products recommended for tank mixture and allow them to become completely dispersed. Continue agitation to maintain a uniform suspension until all of the spray solution has been applied.

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES, RESERVOIRS, RIVERS, PERMANENT STREAMS, MARSHES OR NATURAL PONDS, ESTUARIES, AND COMMERCIAL FISH FARM LAKES, RESERVOIRS, PONDS.

- Do not apply within 75 ft. of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes or estuaries.
- For all plantings within 150 ft. of bodies of water as described above, spray crops from outside the planting away from the bodies of water.
- Shut off the sprayer when at row ends.
- Spray the last three rows windward of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas.
- Do not cultivate within 10 ft. of aquatic areas as to allow a vegetative filter strip.
- Do not apply when weather conditions favor drift to aquatic areas. Do not apply when gusts or sustained winds exceed 10 mph.
- Do not apply during a temperature inversion. Mist or fog may indicate the presence of an inversion in humid areas.

Directions for Use Through Microjet or Drip Chemigation Systems (ORNAMENTALS ONLY) (Not For Use in California)

For applications of NIVALES™ as soil drench applications only.

Do not use in overhead irrigation systems.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

NIVALES™ alone or in tank mixture with other pesticides which are registered for microjet or drip application may be applied in irrigation water at rates specified in this label.

Applications to the soil may be made through microjets or drip irrigation. With microjet systems, apply additional water after application is complete to remove residues from the foliage. Apply enough supplemental water to wet the root zones of the plants.

Do not apply this product through any other type of irrigation system. Plant injury or lack of effectiveness can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension specialists, equipment manufacturers, or other experts.

Thorough coverage is necessary to provide good disease control. Where distribution patterns do not overlap sufficiently, unacceptable control may result. Where distribution patterns overlap excessively, injury to desirable plants may result.

Spray Preparation

Chemical tank and injector system should be thoroughly cleaned. Flush system with clean water.

Fill the mix (supply) tank with the required amount of water. Start agitation in the tank. Agitate the solution until the NIVALES™ has completely dispersed into the solution. Then add desired amount of tank-mix partners. Maintain agitation in the tank and inject this mixture into the irrigation system. Injecting a larger volume of a more dilute mixture per hour will usually provide more accurate calibration of metering equipment. Maintain sufficient agitation to keep the fungicide in suspension.

Meter into irrigation water during the beginning of the irrigation cycle.

Operation Instructions

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.

The pesticide injection pipeline must contain a functional automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed.

solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Specific Instructions for Public Water Systems

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

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Specific Instructions for Public Water Systems (cont.)

3. The pesticide injection pipeline must contain a functional automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e. g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

TURFGRASS

NIVALES™ is a protectant fungicide for control of certain diseases of turfgrass.

NIVALES™ provides control of brown patch, leaf spot, yellow patch, summer patch, anthracnose, gray leaf spot, bentgrass dead spot, and pink and gray snow mold when used in an integrated, preventive disease management program. For control of other diseases of turfgrass such as *Pythium* blight, and yellow tuft, use Subdue MAXX®.

1. Use NIVALES™ as a foliar spray in an integrated, preventive disease management program alone or in combination with other fungicides such as Propiconazole, Mefenoxam, Metalaxyl, Chlorothalonil, or Azoxystrobin that labeled for use on turf.
2. Apply in sufficient water to ensure thorough coverage.
3. Apply after mowing.
4. For control of foliar diseases, allow sprayed area to completely dry before irrigation.
5. Under conditions optimum for high disease pressure, use the higher rate and the shorter interval.
6. For optimum turfgrass quality and disease control, use NIVALES™ in conjunction with turfgrass management practices that promote good plant health and optimum disease control.
7. Before use of any fungicide, proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease is essential to determine the best control measures.

Notes: (1) To avoid possible illegal residues, do not graze animals on treated areas, and, (2) Do not feed clippings from treated areas to livestock or poultry. (3) Note: Do not apply more than 6 fluid ounces of fludioxonil per 1,000 sq. ft. per year on turfgrass.

Turfgrass Disease Control With NIVALES™

DISEASE	RATE PRODUCT/ 1,000 SQ. FT.	APPLICATION INTERVAL	INSTRUCTIONS
Brown Patch (<i>Rhizoctonia solani</i>)	0.75–1.0 fl. oz.	7 days	Begin applications prior to disease development. For extended and more broad spectrum disease control (up to 21 days), tank-mix with labeled rates of Azoxystrobin.
	2.0 fl. oz.	14 days	
Brown Ring Patch (<i>Waitea circinata</i> var. <i>circinata</i>) Rhizoctonia Leaf and Sheath Spot (<i>Waitea circinata</i> var. <i>zeae</i> (<i>Rhizoctonia zeae</i>)	1.0–2.0 fl. oz.	7–14 days	Apply when conditions are favorable for disease development. For best control, use as a component of a preventive disease control program including Azoxystrobin and Propiconazole.
Bentgrass Dead Spot (<i>Ophiosphaerella agrostis</i>)	1.15–2.0 fl. oz.	14 days	Begin applications prior to disease development. For more broad spectrum disease control, tank-mix NIVALES™ with labeled rates of Propiconazole.

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Turfgrass Disease Control With NIVALEST™ (cont.)

DISEASE	RATE PRODUCT/ 1,000 SQ. FT.	APPLICATION INTERVAL	INSTRUCTIONS
Anthracnose (<i>Colletotrichum graminicola</i>)	1.0–2.0 fl. oz.	14 days	Begin applications prior to disease development. For best control, use as a component of a preventive disease control program including Chlorothalonil and Propiconazole.
Leaf Spot (<i>Bipolaris</i> spp., <i>Drechslera</i> spp.)	1.0–2.0 fl. oz.	14–21 days	Apply when conditions are favorable for disease development.
Summer Patch (<i>Magnaporthe poae</i>)	2.0 fl. oz.	14 days	Apply when conditions are favorable for disease development. For best disease control, tank-mix NIVALEST™ with labeled rates of Azoxystrobin 50WG.
Yellow Patch (<i>Rhizoctonia/Ceratorhiza cerealis</i>)	2.0 fl. oz.	Spring/Fall	Apply when yellow patch rings are first observed in the spring or fall. A second application can be made 14 days later. For best disease control, tank-mix NIVALEST™ with labeled rates of Propiconazole.
Snow Mold: Gray (<i>Typhula incarnata</i> , <i>Typhula ishikariensis</i>) Pink (<i>Microdochium nivale</i>)	2.0 fl. oz.	Late Fall	Apply one to two applications in late fall before snow cover. Do not apply on top of snow. For best disease control, tank-mix with one to two registered snow mold products. For example, mix with a combination of Propiconazole, and Chlorothalonil or Concert®. NIVALEST™ at 1.0–1.15 fl. oz. rate can be used when tank mixing with Propiconazole and Chlorothalonil, when disease conditions are expected to be light to moderate.
Microdochium Patch, Fusarium patch (<i>Microdochium nivale</i> , <i>Fusarium</i> spp.)	1.0–2.0 fl. oz.	7–14 days	For the control of microdochium patch without snow cover. Under heavy infestations combine with Propiconazole. Repeat applications can be made at 7- to 14-day intervals when conditions are favorable for disease development.
Gray Leaf Spot (<i>Pyricularia grisea</i>)	1.0–2.0 fl. oz.	14 days	Apply when conditions are favorable for disease development. For best control, use as a component of a preventive disease control program.

ORNAMENTALS

(Not For Use in California)

NIVALEST™ is a protectant fungicide for control of certain foliar, stem, and root diseases in ornamentals grown in interiorscapes, field nursery plantings, container nurseries, forest nurseries residential and commercial landscapes greenhouses, lath and shade houses or other enclosed structures.

Hawaii Use is limited to ornamentals grown in interiorscapes, greenhouses, lath and shade houses, containers, or other enclosed structures.

Nassau and Suffolk Counties, New York Use is limited to ornamentals grown in interiorscapes, greenhouses, lath and shade houses, containers, or other enclosed structures.

NIVALEST™ controls foliar diseases of ornamentals caused by *Rhizoctonia* spp., *Botrytis* spp., *Cercospora* spp., *Alternaria* spp., *Septoria* spp., and *Myrothecium* spp. when applied on a regular schedule as a full coverage spray.

NIVALEST™ also will provide control of stem and root diseases caused by *Rhizoctonia* spp., *Fusarium* spp. (e.g., *Foxysporum*), *Cylindrocladium* spp., *Sclerotium* spp., and *Thielaviopsis* spp., when mixed with the potting media or as a drench to the root zone of plants. For control of stem and root diseases caused by *Pythium* spp. and *Phytophthora* spp., tank mix NIVALEST™ with labeled rates of a labeled metalaxyl product. See mixing instructions for these tank mixes.

Maximum Use Rates

For indoor drench applications, use up to 113 fluid ounces of NIVALEST™ per 1,000 sq. ft. per year or crop cycle. Applications to pre-potting mix can be made up to 15.4 fluid ounces of NIVALEST™ per cu. yd.

The high use rates specified for container nurseries, greenhouses, or other enclosed structures are due to the high organic matter soil mixes used in these systems and the high binding affinity of NIVALEST™ for organic matter.

For field grown and landscape ornamentals, apply up to a maximum of 5.75 fl. oz. of NIVALEST™ per 1,000 sq. ft./year. For outdoor container grown ornamentals, apply up to a maximum of 11.5 fl. oz. of NIVALEST™ per 1,000 sq. ft./year.

Plant Species

NIVALEST™ has been tested and found to be safe on the ornamentals listed in this table at specified rates. For plants not listed in the table, see the **NOTICE TO USER** box at the bottom of the table. Numbers in parentheses refer to diseases controlled. See **Table I**.

African Violets (1-12)	Coreopsis* (1-12)	Petunia (1-12)
Ageratum (1-10)	Cyclamen (1-12)	Pittosporium (8-12)
Alyssum (1-12)	Daffodil (4, 9, 10)	Poinsettia (1, 4, 9-12)
Aster (1-12)	Dahlia* (1-12)	Portulaca* (1-12)
Azalea (4, 11, 12)	Daisy* (1-12)	Pothos (1-12)
Begonia (1-12)	Fern** (1-12)	Rose (1, 4, 9)
Bleeding Heart* (1-12)	Fuchsia* (1-4)	Salvia (1-12)
Bridal Veil* (1-12)	Gerbera Daisy (1-12)	Snapdragon (1-12)
Caladium (1-12)	Gomphrena (1-12)	Spathiphyllum (1-12)
Calendula (1-12)	Iris (4, 9, 10)	Sunflower* (1-12)
Carnation (1-12)	Lantana* (1-12)	Tobacco, Flowering* (1-12)
Celosia (1-12)	Lily (4, 9, 10)	Tulip (4, 9, 10)
Centrosa* (1-12)	Lysianthus (8-12)	Verbena (1-12)
Chenille* (1-12)	Marigold (1-12)	Vinca (1-12)
Christmas Cactus (1-12)	Mexican Heather* (1-7)	Wandering Jew* (1-12)
Chrysanthemums (1-12)	Nephtytis* (1-12)	Zinnia (1-12)
Coleus (1-12)	Pansy (1-12)	

*Indicates that only foliar applications have been tested for plant safety.

**Do not apply NIVALEST™ to leather leaf fern.

NOTE:

- Drench or at seedling applications to Impatiens or New Guinea Impatiens may cause stunting and/or chlorosis.
- Foliar or drench applications to Geranium can cause stunting or chlorosis. Responses may vary depending on environmental conditions. NIVALEST™ should be tested on a limited area to evaluate for any possible damage before proceeding with treatment of the entire crop.

NOTICE TO USER

(Not For Use in California)

Plant tolerance to NIVALEST™ has been found to be acceptable for the specific genera and species listed on this label. Due to the large number of species and varieties of ornamentals and nursery plants, it is impossible to test every one for tolerance to NIVALEST™. Neither the Manufacturer nor the Seller has determined whether or not NIVALEST™ can be used safely on ornamental plants not specified on this label. The professional user should determine if NIVALEST™ can be used safely prior to commercial use. In a small area, test the required rates on a small number of plants for phototoxicity prior to widespread use.

TABLE I: Diseases Controlled by NIVALES™

Foliar Diseases

1. Aerial Blight (*Rhizoctonia* spp.)
2. Alternaria Leaf Blight (*Alternaria* spp.)
3. Alternaria Leaf Spot (*Alternaria* spp.)
4. Botrytis Blight (*Botrytis* spp.)
5. Cercospora Leaf Spot (*Cercospora* spp.)
6. Myrothecium Leaf Spot and Blight (*Myrothecium* spp.)
7. Septoria Leaf Spot (*Septoria* spp.)

Stem, Crown, and Root Rots

8. Cyindrocladium Stem and Root Rot (*Cylindrocladium* spp.)
9. Fusarium Stem and Root Rot (*Fusarium* spp.)
10. Rhizoctonia Stem and Root Rot (*Rhizoctonia* spp.)
11. Southern Blight (*Sclerotium rolfsii*)
12. Black Root Rot (*Thielaviopsis* spp.)

Foliar Spray

For control of *Rhizoctonia* spp., *Alternaria* spp., *Septoria* spp., *Myrothecium* spp., and *Cercospora* spp., use 3.85–7.7 fl. oz. of NIVALES™ per 100 gal. of water and spray to runoff at 7- to 14-day intervals while conditions are favorable for disease development.

For control of *Botrytis* spp. use 7.7–15.4 fl. oz. of NIVALES™ per 100 gal. of water and spray to runoff at 7- to 14-day intervals while conditions are favorable for disease development. For management of the potential development of resistance in the *Botrytis* population, use no more than two consecutive applications of NIVALES™ before rotating to another effective product registered for *Botrytis* control on ornamentals with a different mode of action.

Notes:

- (1) Under severe conditions, use the highest rate and/or the shortest application interval.
- (2) Use sufficient spray volume to wet the plants to the point of drip.
- (3) For a single foliar application, apply up to a maximum of 15.4 fl. oz. of NIVALES™ per 100 gal.

Pre-Potting Growing Media Mix

NIVALES™ can be mixed with the potting media before seeding or transplanting by uniformly mixing 3.85–7.7 fl. oz. of NIVALES™ per cu. yd. of potting media. The desired amount of NIVALES™ should be mixed with 0.50–1 gal. of water and applied to 1 (one) cu. yd. of potting media. It is recommended that NIVALES™ treatment should be made just before the plants are seeded or potted up. Uniform mixing can be accomplished by placing the potting mix in a rotating drum and spraying the NIVALES™ solution onto the mix while the drum is rotating.

Growing Medium Drench

At Seeding

For the control of damping-off, root, and stem diseases mix 3.85 fl. oz. of NIVALES™ per 100 gallons of water. When using NIVALES™ for control of *Rhizoctonia* spp., apply sufficient mix to wet the upper one-half of the growing medium. For control of other root and stem diseases, completely drench the growing medium. Make only one application to the seeding crop prior to transplanting or transfer to larger containers.

Transplants and Cuttings

For the control of root and stem diseases, mix 3.85–7.7 fl. oz. of NIVALES™ per 100 gallons of water. When using NIVALES™ for control of *Rhizoctonia* spp., apply sufficient mix to wet the upper one-half of the growing medium. For control of other root and stem diseases, completely drench the growing medium. If needed, retreat transplants and cuttings with NIVALES™ as described above at 21- to 28-day intervals. Two applications per year during conditions favorable for disease development are usually adequate to control diseases of ornamentals.

NOTES:

- (1) Under severe conditions, use the highest rates and/or the shortest application interval.
- (2) For control of *Pythium* and *Phytophthora* diseases in addition to *Rhizoctonia* spp., *Cylindrocladium* spp., *Thielaviopsis* spp., *Fusarium* spp., and *Sclerotium* spp., tank mix NIVALES™ with labeled rates of metalaxyl products.
- (3) Drench applications can be made at up to a maximum of 2.0 pints of drench mixture/sq. ft. to wet the root zone of plants.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry, secure place. Do not store this product under wet conditions.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinse water is a violation of Federal Law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

CONTAINER HANDLING [less than or equal to 5 gallons]: Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration.

CONTAINER HANDLING [greater 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 person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ALBAUGH, LLC, or Seller. To the extent permitted by applicable law, Buyer and User agree to hold ALBAUGH, LLC and Seller harmless for any claims relating to such factors.

ALBAUGH, LLC 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, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or ALBAUGH, LLC, and, (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, ALBAUGH, LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall ALBAUGH, LLC be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ALBAUGH, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ALBAUGH, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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