



zone. This applies to post-plant applications of NORTICA and so that it will not cause damage to the plant stand.

Preparation of NORTICA suspension
Add NORTICA to water at a minimum ratio of 1 part NORTICA to 5 parts water and maintain continuous agitation.

1. Drenching
Preparation of suspension: Add water to NORTICA in the ratio of 2 lbs. NORTICA to a minimum of 1 gallon of water and stir constantly.
Calculation of the NORTICA dose per dripper: Divide the recommended NORTICA rate per acre by the number of dripper lines per acre.
Drenching: Drench around the dripper with the use of a measuring cup or measuring syringe.

2. Spray applications
Apply NORTICA through most standard spray nozzles. Do not exceed a 20% concentration of the suspension (approximately 150 lbs. NORTICA per 100 gallons water). The NORTICA suspension has been evaluated for phytotoxicity on a range of turfgrasses such as creeping bentgrass, common and ultra-dwarf bermudagrass and no phytotoxicity has been observed. However, due to the number of species and cultivars of turfgrasses, it is impossible to test every one for tolerance to NORTICA. The professional user should determine if NORTICA could be used safely prior to commercial use. Test the prescribed rates on a small area for phytotoxicity prior to widespread use. Before using NORTICA in tank mixture with other products and adjuvants, test the mixture on a small area for phytotoxicity prior to widespread use. Factors affecting turf safety are temperature, humidity and other environmental factors. A 5% concentration has been found to be safe. After application of NORTICA, irrigate to remove product from foliage and to ensure it reaches the soil.
NORTICA may be applied to turf by foliar spray.
Apply spray solution by diluting NORTICA suspension with water to 5% w/v. Adjust the solution and apply directly to the soil or turf. Continue irrigation to wet the upper 4 inches of soil.
New Turf Grow-In: Optimal results are obtained by making the first application 2 to 7 days prior to seeding, sprigging, laying sod or at the time of seeding, sprigging or sodding. Maintain soil moisture until seeds, sprigs or sod is installed.
Cool Season Turf: Optimal results are obtained by making the first application early in the season (as turf comes out of dormancy).
Warm Season Turf: Optimal results are obtained by making the first application before the first flush of roots.

Pests Controlled	Rate lbs Nortica/acre
Cyst nematode	
Lance nematode	
Lesion nematode	
Root-knot nematode	30-100
Sheath nematode	
Spiral nematode	
Sting nematode	
Stunt nematode	

Applications
Make applications every 3 months as necessary and irrigate to depth of 4 inches.

After application of NORTICA, irrigate to wash product from foliage and to ensure it reaches the soil.

STORAGE AND DISPOSAL
Do not contaminate water, food or feed by storage or disposal.
PESTICIDE STORAGE: Store in cool, dry conditions in original container only out of reach of children.
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: Nonrefillable container. Do not reuse or refill this container. Containers (bags) with capacities equal to or less than 50 pounds completely empty bag into application equipment. Then offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: READ BEFORE USE
Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.
By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.
CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience. To the extent allowed by law, all such risks shall be assumed by the user or buyer.
DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.
LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE'S ELECTION, THE REPLACEMENT OF PRODUCT.

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Produced for:
Bayer Environmental Science
A Division of Bayer CropScience LP
2 T. W. Alexander Drive
Research Triangle Park, NC 27709

BAYER

Nortica

A Biological Agent
for the Protection of Plant Roots Against Plant Parasitic Nematodes on Turf, Lawns, Sod Farms, and Golf Courses (Greens, Tees, Fairways and Roughs)

Active Ingredients:
Bacillus firmus (strain I-1582)* 5%
Other Ingredients: 95%
Total: 100%
* Contains a minimum of 3 x 10¹⁰ cfu/gram
EPA Reg. No. 432-1512 EPA Est. No. 264-MO-003

KEEP OUT OF REACH OF CHILDREN
CAUTION

PRECAUTIONARY STATEMENTS
Hazards To Humans And Domestic Animals
Caution: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

For MEDICAL AND TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577
For PRODUCT USE Information Call 1-800-331-2867

FIRST AID
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.
For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Net Contents
35 Pounds
80043376
80040121A 091027A

BACKED BY BAYER

BAYER

Nortica

PERSONAL PROTECTIVE EQUIPMENT (PPE)
Applicators and other handlers must wear:
• long-sleeved shirt and long pants
• waterproof gloves
• shoes plus socks
• dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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(k)(4)-(9)), the handler PPE requirements may be reduced or modified as specified in the WPS.
IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

Environmental Hazards
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 cleaning equipment or disposing of equipment wash waters or rinsate.
IMPORTANT: Read the entire label before using this product.

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 intervals (REI). 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 4 hours.
Exception: If the product 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
• Waterproof gloves
• Shoes plus socks
• Dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95

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.
Keep unprotected persons out of treated areas until sprays have dried.

DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling. 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 State or Tribal agency responsible for pesticide regulation.

GENERAL INFORMATION
NORTICA™ suppresses nematode populations through the activity of *Bacillus firmus*. As a result of this biological protection, a vigorous root system is established by the plant, which often results in more uniform foliage.
Applying NORTICA during growth will cause a reduction in nematode populations in the soil. NORTICA does not control other pests and pathogens. Control of other soil-borne pathogens by other means (such as soil fumigants) is highly recommended.

COMPATIBILITY
DO NOT mix NORTICA with other chemicals or fertilizers during application without first contacting a local Bayer representative.
DO NOT apply NORTICA for a month after formaldehyde application. Do not apply within two weeks of a fumigant application. Do not combine NORTICA in the spray tank with pesticides, surfactants or fertilizers if there has been no previous experience or use of the combination to show it is physically compatible, effective and non-injurious under your use conditions.
NORTICA is compatible with many commonly used pesticides, fertilizers, adjuvants and surfactants but has not been fully evaluated with all of these. To ensure compatibility of tank-mix combinations they should be evaluated prior to use, as follows: Using a suitable container add proportional amounts of product to water. Add wettable powders first, followed by water dispersible granules, then by liquid flowables and lastly, emulsifiable concentrates. Mix thoroughly and let stand for at least five minutes. If the combination stays mixed or can be remixed, it is physically compatible. Test the combination on a small portion of the target to be treated to ensure that a phytotoxic response will not occur as a result of application. Do not add products which lower the spray tank acidity below pH 5. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

APPLICATION INSTRUCTIONS
NORTICA is suitable for application by spraying, drenching, or by drip irrigation. Optimal results are obtained by pre-plant applications (from 2-7 days prior to planting), and immediately irrigating after application to a minimum of 3-4 inches. If product is applied prior to planting, maintain moist soil with daily irrigation until planting.
NORTICA must be applied to the entire volume of soil when mowing. If product is applied it is preferable to apply NORTICA with irrigation after foliar or drench treatment.
Apply NORTICA at the beginning of the irrigation cycle to enable the remainder of the irrigation water to incorporate NORTICA throughout the root zone.
Apply NORTICA as a drench, using conventional equipment, to the root zone. Following drenching, the treated area must be irrigated with adequate water to moisten the entire root

Customer: Bayer
Schematic #: 07635Schem02
Description: 380/face x 100/guset x 730/cut off
Machine (s):
Date Created: 07/27/2004

free-co
SYSTEM USA, INC.
3005 State Road
Telford, PA 16869
215-721-1600

Special Information: 50# Aliquot
FOLD LINES: - - - - -
SAFE COPY AREA: - - - - -
NO COPY AREA: - - - - -
DIMENSIONS ARE IN MILLIMETERS

730mm Cut off



Nortica

A Biological Agent

for the Protection of Plant Roots Against Plant Parasitic Nematodes on Turf, Lawns, Sod Farms, and Golf Courses (Greens, Tees, Fairways and Roughs)

Active Ingredient:

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Other Ingredients:95%

Total:100%

* Contains a minimum of 3×10^9 cfu/gram

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BACKED
by **BAYER™**

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NORTICA must be applied to the entire volume of soil when moist.

It is preferable, to apply NORTICA with irrigation after foliar or drench treatment.

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Apply NORTICA as a drench, using conventional equipment, to the root zone. Following drenching, the treated area must be irrigated with adequate water to moisten the entire root

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1.Drenching

Preparation of suspension: Add water to NORTICA in the ratio of 2 lbs. NORTICA to a minimum of 1 gallon of water and stir constantly.

Calculation of the NORTICA dose per dripper: Divide the recommended NORTICA rate per acre by the number of dripper lines per acre.

Drenching: Drench around the dripper with the use of a measuring cup or measuring syringe.

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Pests Controlled	Rate lbs Nortica/acre
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Applications Make applications every 3 months as necessary and irrigate to depth of 4 inches.	

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CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container.

Containers (bags) with capacities equal to or less than 50 pounds

Completely empty bag into application equipment. Then offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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