



BAY2000™

Net Contents:

2.5 Gal. (9.46 L)



Can be Used for Organic Production

USE IN APPLICATION MIXES WITH OTHER COMMERCIAL SEED TREATMENT PRODUCTS
A SYSTEMIC BIOLOGICAL SEED TREATMENT FOR SUPPRESSION OF SEEDLING AND ROOT
DISEASES ON THE FOLLOWING SELECT AGRICULTURAL CROPS: CEREAL GRAINS, AND
LEGUME VEGETABLES.

ACTIVE INGREDIENT:

Bacillus pumilus strain QST 2808 1.38%

OTHER INGREDIENTS: 98.62%

TOTAL: 100.00%

(Contains a minimum of 1×10^9 cfu/g)

EPA Reg. No. 264-1180 EPA Est. No. 264-MEX-001

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

For **ADDITIONAL PRECAUTIONARY STATEMENTS and DIRECTIONS FOR USE:** See Inside Booklet.

For **MEDICAL and TRANSPORTATION** Emergencies
ONLY Call 24 Hours A Day 1-800-334-7577
For **PRODUCT USE** Information Call
1-866-99BAYER (1-866-992-2937)

USE OF PRODUCT INDICATES ACCEPTANCE OF
CONDITIONS FOR SALE AND WARRANTY

Produced for:
Bayer CropScience LP
800 N. Lindbergh Blvd.
St. Louis, MO 63167
©2019 Bayer CropScience
Product of Mexico

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FIRST AID

IF INHALED:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.• Call a poison control center or doctor for further 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 15-20 minutes.• Call a poison control center or doctor for further treatment advice.

In case of emergency call toll free the Bayer CropScience Emergency Response Telephone No. 1-800-334-7577.

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

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if inhaled. Avoid breathing spray mist. Avoid contact with skin or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and Other Handlers

Workers involved with treating the seed (e.g. connecting and disconnecting hoses and transfer pumps, mixing, equipment calibration, etc.) and others exposed to the concentrate, and cleaners/repairers of seed treatment equipment must wear a long-sleeve shirt and long pants, shoes plus socks, waterproof gloves, and a minimum of a filtering face piece NIOSH approved respirator (TC-84A) with any N, R or P filter. An N95 filtering face piece respirator is an example. More protective respirators that are NIOSH approved for particulates can also be used, such as a NIOSH approved:

- Half face respirator (TC-84A) with any N, R, or P filter;
- Full face respirator (TC-84A) with any N, R, or P filter;
- Gas mask (TC-14G) with an HE filter; or
- Powered air purifying respirator (TC-21C) with an HE filter.

(Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.)

Baggers and bag sewers must wear a long-sleeve shirt and long pants, shoes plus socks, waterproof gloves, and a minimum of a filtering face piece NIOSH approved respirator (TC-84A) with any N, R or P filter. An N95 filtering face piece respirator is an example. More protective respirators that are NIOSH approved for particulates can also be used, such as a NIOSH approved:

(continued)

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- Powered air purifying respirator (TC-21C) with an HE filter.

(Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.)

Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions are available, use detergent and hot water for washables. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product.
- Users should wash the outside of gloves before removing.
- Users should as soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For Seed Treatment Use: 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 washwater or rinsate. Cover spilled seed, or collect spilled seed from soil surface.

CONDITIONS FOR SALE AND WARRANTY

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 at once for a refund of the purchase price.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties, and Limitations of Liability. These terms may only be modified by a written document signed by a duly authorized representative of Bayer CropScience LP.

Treatment of highly mechanically damaged seed, or seed of known low vigor and poor quality, may result in reduced germination and/or reduction of seed and seedling vigor. Treat and conduct germination tests on a small portion of seed before committing the total seed lot to a selected chemical treatment. Due to seed quality conditions beyond the control of Bayer CropScience LP, no claims are made to guarantee germination of carry-over seed.

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 LP. All such risks shall be assumed by the user or buyer.

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DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP 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 LP 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 LP 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 LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

DIRECTIONS FOR USE

STOP - READ THE ENTIRE LABEL BEFORE 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. For use only as described on the labeling. Not for isolation or deformation. Do not culture.

COMMERCIAL SEED TREATMENT USE DIRECTIONS

Not for use on agricultural establishments in hopper-box, planter-box, slurry-box or other seed treatment applications at or immediately before planting.

BASIC USE INFORMATION

BAY2000™ contains bacteria that, when applied to seed, will germinate in the soil to colonize the developing root system and provide suppression of disease-causing organisms such as *Fusarium*, *Pythium* and *Rhizoctonia* that can attack plant roots. As a result of this biological protection, a vigorous root system is established by the plant, which often results in improved plant stand, plant health, and yield. For improved performance use BAY2000 in a program with other registered fungicides for seed treatment.

USE RATE DETERMINATION

Carefully read and follow all label directions, use rates and restrictions. Prepare only the amount of product solution required to treat the amount of seed required.

APPLICATION INSTRUCTIONS

For Commercial Seed Treatment: BAY2000 as a seed treatment may be applied as a water-based slurry alone or with other registered seed treatment insecticides and fungicides through standard slurry or mist commercial seed treatment equipment.

MIXING INSTRUCTIONS

MIXING: BAY2000 may be mixed with other registered pesticides. This product cannot be mixed with any product with a prohibition against such mixing. When mixing BAY2000 with other registered pesticides,

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always read and follow all use directions, restrictions, and precautions of both BAY2000 and the mix partner(s). Use of the resulting mix must be in accordance with the more restrictive label limitations and precautions. Do not exceed label dosage rates.

COMPATIBILITY: Do not combine BAY2000 in the slurry with any product in which 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. BAY2000 is compatible with many commonly used pesticides but has not been fully evaluated with all of these. It is essential that before using BAY2000 in any tank mixture the compatibility of the mixture be established. Add BAY2000 at the labeled rate to a clean quart jar containing approximately one-half the amount of water intended for a final slurry application rate. Next, follow with all other tank mix components that will be used in the total slurry application. Add last the remaining balance of water. The total amount of volume is determined by the seed size and how much is necessary to ensure complete and uniform coverage and distribution on the seed, as well as the type of commercial seed treating application equipment that will be used.

DO NOT USE MIXTURES THAT CURDLE, PRECIPITATE, OR GEL. USE TANK MIXTURES IMMEDIATELY AFTER MIXING WITH ADEQUATE AGITATION.

For Use as a Seed Treatment:

When using with other chemical insecticide or fungicide seed treatments: first add the chemical insecticides or fungicides to the slurry mix with approximately 1/2 of the required water. Slowly add the BAY2000 to the slurry until a suspension is obtained. Add the remainder of the water and maintain adequate agitation. **Do not store mixed slurries for more than 24 hours.**

When using only BAY2000 seed treatment: Add 1/2 the required water to the slurry mix. Slowly add the BAY2000 to the slurry until a suspension is obtained. Add the remainder of the water and maintain adequate agitation. **Do not store mixed slurries for more than 24 hours.**

Note: This product does not contain dye and is not covered by an appropriate tolerance, tolerance exemption, or other clearance under the Federal Food, Drug and Cosmetic Act. To comply with 40 CFR 153.155, therefore, all seed treated commercially with this product must be colored with an EPA-approved dye or colorant of a suitable color to prevent accidental use as food for man or feed for animals.

SPECIFIC CROP DIRECTIONS

CROP USE DIRECTIONS Application Rates of BAY2000 for Seed Treatment

For suppression of seedling and root diseases on the following select agricultural crop seeds:

CEREAL GRAINS

Amaranth, Grain; Sorghum, Grain; Barley, Grain; Oat, Grain; Wheat, Grain; Lupine Grain

Disease	Product Rate (fl oz per 100 lb of seed)
<i>Fusarium</i> spp.	
<i>Pythium</i> spp.	0.1 – 2
<i>Rhizoctonia</i> spp.	

LEGUME VEGETABLES

Beans Sprouts, Bean; Adzuki, Bean; Black, Blue Lake, Bean; Broad, Bean; Butter, Bean; Cacao, Bean; Dry, Bean; Fava, Bean; French, Bean; Garden, Bean; Garbanzo, Bean; Green, Bean; Kidney, Bean; Lima, Bean; Mung, Bean; Navy, Bean; Pea, Bean; Pigeon, Bean; Pinto, Bean; Red, Bean; String, Bean; Sugar, Bean; Snap, and other fresh, dry, vine, fuel and forage legume vegetables grown for seed.

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<i>Fusarium</i> spp.	
<i>Pythium</i> spp.	0.1 – 2
<i>Rhizoctonia</i> spp.	

SEED TAG LABELING

The Federal Seed Act requires that the container of seed treated with BAY2000 must be labeled with the following statements:

- This seed has been treated with:
 - **BAY2000**, which contains **1.38% *Bacillus pumilus* strain QST2808**.
- Do not use treated seed for food, feed, or oil production. User is responsible for ensuring that the seed bag meets all the requirements under the Federal Seed Act.

In addition, the US Environmental Protection Agency requires the following statements on the container of seed treated with **BAY2000**:

- **Store treated seeds away from food and feedstuffs.**
- **Do not allow children, pets, or livestock to have access to treated seed.**
- **Wear long-sleeved shirt, long pants and chemical-resistant gloves when handling treated 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 pesticide remain in ethanol by-products that are used in agronomic practice.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Dispose of all excess treated seed. Leftover treated seed may be buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- Treated at manufacturer's recommended rate
- Treated seed must be adequately covered with soil at planting.
- Dispose of seed packaging or containers in accordance with local requirements. Do not use empty seed bags for any other purpose.
- To reduce seed dust which can drift onto blooming crops or weeds, ensure that planting equipment is functioning properly in accordance with manufacturer's recommendations. Surplus seed or empty seed containers should be stored or disposed according to local federal regulations.

For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

For MEDICAL, TRANSPORTATION or OTHER Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a dry area inaccessible to children. Store in original containers only. Keep container closed when not in use.

PESTICIDE DISPOSAL: To avoid waste, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING:

Dilutable Seed Treatment Products in Non-Refillable Metal Containers

Nonrefillable container. Do not reuse or refill this container. After emptying product from container, either return container to Bayer CropScience per instructions from Bayer CropScience Customer Service Center (1-800-527-4781), or rinse and either recycle or dispose of the container as follows:

Liquid dilutables in containers small enough to shake (5 gallons or less)

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 $\frac{1}{4}$ 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.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

Bayer

Lot No.:

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A SYSTEMIC BIOLOGICAL SEED TREATMENT FOR SUPPRESSION OF SEEDLING AND ROOT DISEASES ON THE FOLLOWING SELECT AGRICULTURAL CROPS: CEREAL GRAINS, AND LEGUME VEGETABLES.

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Liquid dilutables in containers small enough to shake (5 gallons or less)

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.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

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