FOR USE AS A DRY COATING OR COMMERCIAL SEED TREATMENT APPLICATION

ACTIVE INGREDIENT: (% w/w)
Streptomyces lydicus WYEC 108* ......................... 0.33%
OTHER INGREDIENTS ................................ 99.67%
TOTAL: 100.00%

* End-use product contains not less than 100 million (1 X 10^8) colony forming units per gram (cfu/g) Streptomyces lydicus WYEC 108.

Keep Out of Reach of Children

CAUTION

See complete label for additional precautionary statements, first aid, complete directions for use and warranty.

For product use information call: 1-877-775-8787

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.

IF INHALED:
• Move person to fresh air.
• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.
• Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING:
• Take off contaminated clothing.
• Rinse skin immediately with plenty of water for 15-20 minutes.
• Call a poison control center or doctor for treatment advice.

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 do so by a poison control center or doctor.
• Do not give anything by mouth to an unconscious person.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of an emergency involving this product, or for medical assistance, call collect day or night: 1-314-694-4000.

EPA Reg. No.: 524-643
EPA Est. 73314-TX-001

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For Medical, Transportation, Spill, or Other Emergencies, Call Collect 24 Hours a Day: 1-314-694-4000.

Manufactured for:
Monsanto Company
800 N. Lindbergh Blvd.
St. Louis, MO 63167

Net Weight: 6.6 lb (3 kg)

Monsanto Reference ID 2018-NPY164 CPN 368
PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION
Avoid contact with eyes, skin, or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)
Applicators and other handlers must wear:
• Long-sleeved shirt
• Long pants
• Shoes plus socks

Mixer/loaders and applicators must wear a NIOSH-approved particulate respirator with any N, R, or P filter with NIOSH approval number prefix TC-84A® or a NIOSH-approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

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.

USER SAFETY RECOMMENDATIONS
Users should:
• Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
• Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS
For terrestrial uses: 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 washwaters or rinsate. Cover or collect seeds spilled during loading.

DIRECTIONS FOR USE
For use as a dry coating or commercial seed treatment application.

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.

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 four (4) hours.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter treated area if there will be no contact with anything that has been treated. PPE required for early entry into 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)
• Shoes plus socks

Non-Agricultural Use Requirements
The requirements in this box apply to uses of the 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 treatment area until seeds have dried or been packaged.

PRODUCT INFORMATION
Actinovate® STP Fungicide/Nematicide is a biological fungicide that, when applied to the seed, protects the seed and seedling against certain early season diseases caused by root rot and damping-off fungi. This product is specially formulated to adhere to seeds as applied on farm, dry coating, or as a slurry. Protection is provided through suppression/control of soil borne fungi including Fusarium, Rhizoctonia, Pythium, Phytophthora, Phymentruchium omnivorum (cotton root rot), Aphanomyces, Monosporascus, Armillaria, Sclerotinia, Postia, Verticillium, Geotrichum, and other root-decay fungi. The active ingredient in this product colonizes the seed and root system protecting them from harmful fungi.

In addition, Actinovate® STP Fungicide/Nematicide is also an effective biological nematicide providing suppression/control of pathogenic nematodes that attack the root system including Soybean Cyst (Heteroderia spp.), Root-Knot (Meloidogyne spp.), and Lesion nematodes (Pratylenchus spp.), among others. The Streptomyces lydicus WYEC 108 in this product produces metabolites that are destructive to the nematode egg, thereby reducing their population in the soil and root zone of plants.

INTEGRATED PEST MANAGEMENT (IPM)
Users may integrate Actinovate® STP Fungicide/Nematicide into an overall disease and nematode management strategy wherever the use of a fungicide or nematicide is necessary. This product may be used in combination with compatible registered fungicide, insecticide, or nematicide seed treatments unless restricted.
APPLICATION DIRECTIONS

Compatibility:
Actinovate® STP Fungicide/Nematicide is compatible with many registered chemical fungicides, insecticides, nematicides, and fertilizers and can be mixed with these substances, as appropriate, unless otherwise restricted. Consult manufacturer for compatibility questions and pre-check for compatibility as appropriate. Follow the most restrictive labeling limitations and precautions of all products used in mixtures.

Application Uses:
Actinovate® STP Fungicide/Nematicide is a dry biological product for use in seed coating applications in or on all raw agricultural commodities, food and fiber crops, and other agricultural production crops for the suppression/control of the following diseases: Fusarium, Rhizoctonia, Pythium, Phytophthora, Phymatotrichum omnivorum (cotton root rot), Aphanomyces, Monosporascus, Armillaria, Sclerotinia, Postia, Verticillium, Geotrichum, and other root decay fungi. Actinovate® STP Fungicide/Nematicide can also be used for suppressing/controling a range of economically damaging nematode pests: Soybean Cyst (Heterodera spp.), Root-Knot (Meloidogyne spp.), Lesion (Pratylenchus spp.), and others. High levels of nematode infestation may require other additional effective soil treatments as necessary.

Seed Treatment:
For use as a dry coating, on-farm application, or commercial seed treatment application.

Fungicide use
Applications to seed for fungal suppression/control may use commercial seed treater equipment (example: slurry, mist-type), dry-coating, and on-farm seed applications such as hopper-box or planter-box methods. Apply this product at a rate of 0.32 to 32.0 oz of Actinovate® STP Fungicide/Nematicide per cwt of seed. Refer to the tables below for specific use rates by crop.

Nematicide or nematicide + fungicide use
For applications to seed for nematode suppression/control or nematode + fungal suppression/control, use only commercial seed treatment equipment or dry coating methods; do not use in hopper box, planter box, slurry box, or other on-farm seed treatment applications for nematode suppression/control. Apply this product as a dry coating, or using commercial seed treatment equipment (example: ‘mist’ type, slurry) at a rate of 0.32-0.64 oz (9-18 grams) of Actinovate® STP Fungicide/Nematicide per cwt of seed. Refer to the table below for specific use rates by crop.

Preparation of the Slurry:
Fill commercial seed treatment equipment tank with the required volume of water. Use between 16.9 fl oz and 33.8 fl oz of water per 220.5 lb of seed (between 500 mL and 1 L of water per 100 kg of seed). Pour the required amount of Actinovate® STP Fungicide/Nematicide onto the water surface. Wait until the product has disappeared in the water without stirring. Switch on the stirring system. Use the slurry or equipment tank mixture within 1 day of preparation. Uniform application of product to seed is necessary to ensure seed safety and best disease and/or nematode protection. Dillute with a sufficient amount of water to achieve uniform application to seed. Use high quality, properly cleaned seed.

For Pre-plant Seed Treatment:
Do not use treated seed for food or feed purposes or process for oil. Treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. Do not store excess treated seeds beyond planting time.

For Commercial Seed Treatment:
This product does not contain dye/colorant. 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 humans or feed for animals.

Crops on which Actinovate® STP Fungicide/Nematicide may be used as a fungicide only:
Actinovate® STP Fungicide/Nematicide may be used in combination with other registered seed treatment fungicides, insecticides, or other registered pesticides where allowed. Pre-test for compatibility as appropriate with other seed treatment products.

<table>
<thead>
<tr>
<th>CROP</th>
<th>SEED APPLICATION RATE FOR DRY COATING, ON-FARM, OR SLURRY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat (Drill Box Application – Wheat only)</td>
<td>0.35-0.70 oz (9.8-19.6 grams) per cwt of seed</td>
</tr>
<tr>
<td>Alfalfa</td>
<td>1-2 oz (28-56 grams) per cwt of seed</td>
</tr>
<tr>
<td>Corn, Field</td>
<td>1-2 oz (28-56 grams) per cwt of seed</td>
</tr>
<tr>
<td>Corn, Silage</td>
<td>1-2 oz (28-56 grams) per cwt of seed</td>
</tr>
<tr>
<td>Corn, Sweet</td>
<td>1.76-3.5 oz (50-100 grams) per cwt of seed</td>
</tr>
<tr>
<td>Cotton</td>
<td>4-8 oz (112-224 grams) per cwt of seed</td>
</tr>
<tr>
<td>Peanuts</td>
<td>0.74-1.5 oz (21-42 grams) per cwt of seed</td>
</tr>
<tr>
<td>Popcorn</td>
<td>1.41-2.82 oz (40-80 grams) per cwt of seed</td>
</tr>
<tr>
<td>Sorghum</td>
<td>1-2 oz (28-56 grams) per cwt of seed</td>
</tr>
<tr>
<td>Soybeans</td>
<td>0.32-0.64 oz (9-18 grams) per cwt of seed</td>
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<tr>
<td>Sugar Beets</td>
<td>3-8 oz (107-214 grams) per cwt of seed</td>
</tr>
<tr>
<td>Sunflowers</td>
<td>1.41-2.82 oz (40-80 grams) per cwt of seed</td>
</tr>
</tbody>
</table>

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<th>CROP</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Other Grain, Cereal; Other Oilseed; Other Vegetable, Legume: buckwheat; rye; millet; canola; safflower; snap and dry beans; succulent and dry peas; lentil; other cereal grains, oilseeds, and legume vegetables</td>
<td>1-4 oz per cwt (0.25-1.00 grams per lb) of seed</td>
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</tbody>
</table>
| Other Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay): clover; vetch; trefoil

Monsanto Reference ID 2018-NPY164 CPN 368
Crops on which Actinovate® STP Fungicide/Nematicide may be used as a nematicide or nematicide + fungicide:

<table>
<thead>
<tr>
<th>CROP</th>
<th>SEED APPLICATION RATE FOR DRY COATING, ON-FARM, OR SLURRY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetable, Cucurbit:</td>
<td></td>
</tr>
<tr>
<td>Cucumbers; melons; gourds;</td>
<td></td>
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<tr>
<td>squash; cantaloupe; other</td>
<td></td>
</tr>
<tr>
<td>cucurbit vegetables</td>
<td></td>
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<tr>
<td>Vegetable, Fruiting except Cucurbit:</td>
<td></td>
</tr>
<tr>
<td>Eggplant; sweet peppers;</td>
<td></td>
</tr>
<tr>
<td>hot peppers; tomatoes;</td>
<td></td>
</tr>
<tr>
<td>tomatillos; other fruiting</td>
<td></td>
</tr>
<tr>
<td>vegetables</td>
<td></td>
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<tr>
<td>Herbs, Spices, and Mints:</td>
<td></td>
</tr>
<tr>
<td>Sage; rosemary; thyme;</td>
<td></td>
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<tr>
<td>peppermint; dill; basil</td>
<td></td>
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<tr>
<td>oregano; other herbs, spices,</td>
<td></td>
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<tr>
<td>and mints</td>
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<tr>
<td>Vegetable, Leafy except Brassica:</td>
<td></td>
</tr>
<tr>
<td>Celery; endive; lettuce;</td>
<td></td>
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<tr>
<td>parsley; spinach; other leafy</td>
<td></td>
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<tr>
<td>vegetables</td>
<td></td>
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<tr>
<td>Vegetable, Brassica (Cole) Leafy:</td>
<td></td>
</tr>
<tr>
<td>Broccoli; Brussels sprouts;</td>
<td></td>
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<tr>
<td>cabbage; cauliflower; collards;</td>
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<tr>
<td>kale; kohlrabi; mustard greens;</td>
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<tr>
<td>other Brassica (cole) leafy</td>
<td></td>
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<tr>
<td>vegetables</td>
<td></td>
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<tr>
<td>Vegetable, Root and Tuber except Sugar Beet:</td>
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<tr>
<td>White potatoes; sweet</td>
<td></td>
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<tr>
<td>potatoes; carrot; ginger;</td>
<td></td>
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<tr>
<td>ginseng; horseradish; turnip;</td>
<td></td>
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<tr>
<td>beets; radish; other root and</td>
<td></td>
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<tr>
<td>tuber vegetables</td>
<td></td>
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<tr>
<td>Vegetable, Bulb:</td>
<td></td>
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<tr>
<td>Garlic; onions; other bulb</td>
<td></td>
</tr>
<tr>
<td>vegetables</td>
<td></td>
</tr>
</tbody>
</table>

Do not contain 4-32 oz per cwt (1-9 grams per lb) of seed

Storage and Disposal

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

PESTICIDE STORAGE:
Store in original container away from food and feed. Store in a cool, dry place, between 40°F and 77°F. Do not store in direct sunlight and keep away from heat sources. Keep from overheating or freezing.

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

LIMITS OF LIABILITY AND WARRANTY
Monsanto Company warrants that this product is reasonably fit for the purposes set forth in the DIRECTIONS FOR USE ("Directions") when used in accordance with those Directions under the conditions described therein. This warranty is also subject to the inherent risks, conditions and limitations stated herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE, INFRINGEMENT (ALONE OR IN COMBINATION WITH OTHER REGISTERED SEED TREATMENT PRODUCTS) OR MERCHANTABILITY IS MADE.

To the extent consistent with applicable law, buyer and all users are responsible for all loss or damage from use or handling of the product that results from conditions beyond the control of Monsanto Company, including, but not limited to, crop injury, ineffectiveness due to such factors as weather conditions at planting, environmental conditions during seed storage, presence of other materials, seed of low quality or low vigor or low germination, or other unintended consequences that may result because of the manner of use or application inconsistent with that set forth in the Directions.

Monsanto Company does not warrant any product reformulated or repackaged from this product except in accordance with Monsanto Company’s stewardship requirements and with Monsanto Company’s express written permission.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF MONSANTO COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF MONSANTO COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MONSANTO COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR SPECIAL DAMAGES. Upon opening and using this product, buyer and all users are deemed to have accepted the terms of this LIMIT OF LIABILITY AND WARRANTY that may not be varied by any verbal or written agreement. If terms are not acceptable, return at once unopened.
Actinovate® STP
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