

100-901

09/13/1999

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<b>ACCEPTED</b>
9-13-99'
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 100-901

# AS-50®

## Agricultural Streptomycin

For control of halo blight of beans

Seed treatment (only in commercial seed treatment plants) and control of fire blight of apples and pears

Active Ingredient:

Streptomycin Sulfate (Equivalent to 50% streptomycin base) .....	65.8%
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Inert Ingredients:	34.2%
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Total:	100.0%
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EPA Reg. No. 100-901

EPA Est. 67545-AZ-1

Product ID. **10040**

KEEP OUT OF REACH OF CHILDREN.

### CAUTION

See additional precautionary statements at end of label.

NCP 901A-L1C 0699

## 25 POUNDS NET WEIGHT



#### DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

**IMPORTANT:** Read the entire **Directions for Use** and the **Conditions of Sale and Warranty** before using this product. If terms are not acceptable, return the unopened product container at once.

#### CONDITIONS OF SALE AND WARRANTY

The **Directions for Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with 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 Novartis Crop Protection, Inc. or the Seller. All such risks shall be assumed by the Buyer.

Novartis warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use** subject to the inherent risks referred to above. **Novartis makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Novartis or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.** Novartis and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing **Conditions of Sale and Warranty**, which may be varied only by agreement in writing signed by a duly authorized representative of Novartis.

### 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 through any type of irrigation system. 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.**

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
- Protective eyewear

#### Control of Fire Blight of Apples and Pears – Directions for Use

Crop	Recommended Concentration	First Spray	Follow-up Spray Schedule
Pears (West Coast Area)	9.6 oz. AS-50 per acre (equivalent to 60 ppm at 600 gals. per acre).	10% bloom	Repeat at 5-day intervals until all late bloom is over. (This could mean 12-15 applications.) Continue to spray at 5 to 7-day intervals to control shoot and fruit infections. Do not apply within 30 days of harvest.
Apples (West Coast Area)	9.6 oz. AS-50 per acre (equivalent to 60 ppm at 600 gals. per acre).	Full bloom	Apply at petal fall and late secondary bloom. Continue to spray at 5 to 7-day intervals to maintain disease control but not later than 50 days before harvest.
Apples (Other Areas)	8-16 oz. AS-50 per acre (equivalent to 50-100 ppm at 600 gals. per acre).	Spray trees at 20-30% bloom.	Spray trees every 3-4 days during blossom time. Apply sprays after petal fall every 10-14 days to control twig blight. (This could mean an additional 6-8 applications after blossom sprays.) Do not apply within 30 days of harvest.
Pears (Other Areas)	8-16 oz. AS-50 per acre (equivalent to 50-100 ppm at 600 gals. per acre).	Spray trees at 20-30% bloom.	Spray trees every 3-4 days during blossom time. Apply sprays after petal fall every 10-14 days to control twig blight. (This could mean an additional 6-8 applications after blossom sprays.) Do not apply within 30 days of harvest.

#### Mixing Instructions

Concentration Desired	Quantity AS-50 in Ounces per Volume of Water			
	50 gals.	100 gals.	500 gals.	600 gals.
50 ppm	$\frac{2}{3}$	$1\frac{1}{3}$	$6\frac{2}{3}$	8 ( $\frac{1}{2}$ lb.)
60 ppm	0.8	1.6	8 ( $\frac{1}{2}$ lb.)	9.6
100 ppm	$1\frac{1}{3}$	$2\frac{2}{3}$	$13\frac{1}{3}$	16 (1 lb.)

Information regarding use of AS-50 may be obtained from your local Agricultural Extension Agent or State Experiment Station.

**Seed Treatment – Control of Halo Blight of Beans**

Seed Protection (For Control of Surface Infection)	1-5%	Slurry Treatment Accurately weigh AS-50 and add to desired amount of water. Rates of powder to water are shown in mixing table.
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**Mixing Instructions**

Concentration Desired	Quantity AS-50 per Volume of Water			
	1 pt.	1 qt.	1 gal.	5 gals.
1%	0.3 oz. (9.5 g)	0.6 oz. (19.0 g)	2 <sup>2</sup> / <sub>3</sub> oz.	13 <sup>1</sup> / <sub>3</sub> oz.
2%	0.6 oz. (19.0 g)	1 <sup>1</sup> / <sub>3</sub> oz. (38.0 g)	5 <sup>1</sup> / <sub>3</sub> oz.	26 <sup>2</sup> / <sub>3</sub> oz.
5%	1.5 oz. (47.5 g)	3.0 oz. (90.0 g)	13 <sup>1</sup> / <sub>3</sub> oz.	66 <sup>2</sup> / <sub>3</sub> oz.

Federal law requires that bags containing treated seed shall be labeled with the following information: "This seed has been treated with streptomycin sulfate." Do not use for feed, food, or oil purposes. Store away from feed and foodstuffs. Use an EPA-approved dye or colorant that imparts an unnatural color to the seed.

**STORAGE AND DISPOSAL**

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

**Storage** – Keep tightly closed. Storage should be at a cool temperature when possible, and with minimum exposure to the atmosphere.

**Pesticide Disposal** – Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Disposal** – Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

**PRECAUTIONARY STATEMENTS****Hazards to Humans and Domestic Animals****CAUTION**

May cause allergic reactions. Avoid contact with skin and eyes. Do not breathe dust or spray mist.

**Personal Protective Equipment****Applicators and other handlers must wear:**

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks
- protective eyewear
- dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

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:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Environmental Hazards** – 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 wash water.

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