

# Ag Streptomycin

**BACTERICIDE**

ACTIVE INGREDIENT:	% BY WT.
Streptomycin Sulfate (equivalent to 17% streptomycin) (CAS #3810-74-0) .....	22.4%
OTHER INGREDIENTS: .....	77.6%
TOTAL .....	100.0%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

FIRST AID	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul> <p>(continued)</p>

EPA Reg. No. 66222-121

EPA Est. No. 37429-GA-001<sup>ST</sup>;  
37429-GA-002<sup>ND</sup>

Letter(s) in lot number correspond(s) to superscript in EPA Est. No.

## FIRST AID (continued)

### 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 INHALED:

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

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact PROSAR at 1-877-250-9291 for emergency medical treatment information.

For additional precautionary, handling, and use statements, see inside of this booklet.



**M A N A**

Manufactured for:  
**Makhteshim Agan  
of North America, Inc.**  
4515 Falls of Neuse Road  
Suite 300  
Raleigh, NC 27609

12064

EPA 092403/  
Notif 022009/Rev B

**Net Weight: 2 Pounds**

# **PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION**

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. May cause allergic skin reactions. Do not breathe dust or spray mist.

## **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

### **Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- A NIOSH approved respirator with any N, R, P, or HE filter

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. This material is not to be used for medical, veterinary, or human purposes.

## **USER SAFETY RECOMMENDATIONS**

### **Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## **ENVIRONMENTAL HAZARDS**

This product may be hazardous to aquatic plants. 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 by cleaning of equipment or disposal of wastes.

## **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 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 over long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- NIOSH approved respirator with any N, R, P, or HE filter
- Chemical-resistant shoes plus socks

## MIXING INSTRUCTIONS

Concentration desired ppm*	Quantity Ag Streptomycin per Volume of Water		
	50 gals.	100 gals.	500 gals.
50	2 oz.	4 oz.	20 oz.
60	2.4 oz.	4.8 oz.	1 1/2 lb.
100	4 oz.	1/2 lb.	2 1/2 lb.
200	1/2 lb.	1 lb.	5 lb.

\*ppm = parts per million

CROPS & DISEASES	RECOMMENDED CONCENTRATION	FIRST SPRAY	FOLLOW-UP SPRAY SCHEDULE
<b>Apples</b> Fire Blight	24-48 oz. Ag Streptomycin per acre (equivalent to 50-100 ppm at 600 gals./A)	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 50 days of harvest.
<b>Apples</b> Fire Blight (West Coast Area)	28.8 oz. Ag Streptomycin per acre (equivalent to 60 ppm at 600 gals./A)	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.
<b>Celery</b> Bacterial Blight (Florida Area)	200 ppm	Apply first spray when seedlings are in the 2-leaf stage, when first true leaves appear.	Apply at 4- to 5-day intervals. Continue applications until celery is transplanted in the field.
<b>Chrysanthemums</b> Bacterial Wilt	50 ppm	Soak plant cuttings in streptomycin solution for 4 hours; plant as usual.	
<b>Dieffenbachia Cuttings</b> Bacterial Stem Rot	200 ppm	Soak cuttings in streptomycin solution for 20 minutes. Plant cuttings in sterilized rooting medium.	
	100 ppm	To check spread of stem rot in stock plants, use 100 ppm streptomycin spray every 5-7 days.	
<b>Home Garden Apple Trees</b> <b>Home Garden Pear Trees</b> <b>Pyracantha (Fire Thorn Bush)</b> Fire Blight of the Rosaceae (CA)	100 ppm	Apply Ag Streptomycin in foliar and blossom sprays. Apply first spray at start of blossoming period. Continue spray application every 3-4 days during blossom time. Apply additional sprays every 5-7 days after blossom period when weather favors spread of fire blight. Do not apply after fruit is visible.	

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CROPS & DISEASES	RECOMMENDED CONCENTRATION	FIRST SPRAY	FOLLOW-UP SPRAY SCHEDULE
<b>Pears</b> Fire Blight	24-48 oz. Ag Streptomycin per acre (equivalent to 50-100 ppm at 600 gals./A)	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.
<b>Pears</b> Fire Blight (West Coast Area)	28.8 oz. Ag Streptomycin per acre (equivalent to 60 ppm at 600 gals./A)	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.
<b>Peppers</b> Bacterial Spot	200 ppm	Apply first spray when seedlings are in the 2-leaf stage, when first true leaves appear.	Apply at 4- to 5-day intervals. Continue applications until transplanted in the field.
<b>Philodendron</b> Bacterial Leaf Rot	200 ppm	Apply as preventative or at first signs of water-soaked areas on leaf.	Apply every 4-5 days.
	For curative action	Remove all rotted leaves from plant and then spray at 200 ppm every 4 days.	
<b>Potatoes</b> Soft Rot and Blackleg	100 ppm	Soak cut seed pieces in streptomycin solution for several minutes; plant as usual. <b>Note:</b> A suitable fungicide (such as Captan, Phygon, dithiocarbamates) should be used as an adjunct to this treatment for the control of fungal diseases associated with potato seed pieces.	
<b>Roses</b> (New Jersey Area) Crown Gall	200 ppm	Remove infected plant. Cut out gall tissue. Soak the plant root system and cut surfaces of the infected area in streptomycin solution for 15 minutes. Replant rose bushes in soil free of the crown gall organisms.	
	50 ppm	Use 50 ppm Ag Streptomycin in watering solution and in foliar sprays applied weekly starting one week after planting as an adjunct to this treatment.	

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CROPS & DISEASES	RECOMMENDED CONCENTRATION	FIRST SPRAY	FOLLOW-UP SPRAY SCHEDULE
<b>Tobacco</b> Wildfire and Blue Mold	100 ppm for preventative action	Apply first spray when plants are in the 2-leaf stage or about the size of a dime or when blue mold first appears in the area.	Repeat application at 5- to 7-day intervals until plants are set in the field. Additional protection may be obtained by spraying field plants with 100 ppm in a weekly spray schedule.
	200 ppm for curative action	In locations where wildfire has been a problem in recent years or where applications have been delayed until disease appears, a spray of 200 ppm Ag Streptomycin is recommended. Follow the same schedule as above.	
<b>Tomatoes</b> Bacterial Spot	200 ppm	Apply first spray when seedlings are in the 2-leaf stage, when first true leaves appear.	Apply at 4- to 5-day intervals. Continue applications until transplanted in the field.

Additional information regarding use of Ag Streptomycin may be obtained from your local Agricultural Extension Agent or State Experimental Station.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Keep tightly closed. Storage should be at a cool temperature when possible, and within 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.

### CONTAINER HANDLING:

**Nonrefillable Container (flexible-bag – all weights):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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.

**Nonrefillable Container (rigid – fifty lbs. or less):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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.

**Nonrefillable Container (rigid – greater than fifty lbs.):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

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# STORAGE AND DISPOSAL

## **CONTAINER DISPOSAL:** *(continued)*

**Refillable Container:** Refillable container. Refill this container with streptomycin sulfate 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 refiller. To clean the 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.

**IMPORTANT:** Read the information below before using this product. If the terms are not acceptable, you should return the unopened product container immediately for a complete refund.

## **LIMITATION OF WARRANTY AND LIABILITY**

Read the entire directions for use, conditions 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 Makhteshim Agan of North America, Inc. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. 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 Makhteshim Agan of North America, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

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