

MATERIAL SAFETY DATA SHEET

Ag Streptomycin

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1. IDENTIFICATION

Product name: **Ag Streptomycin**
 Chemical name of active ingredient(s): Streptomycin sulfate (equivalent to 17% streptomycin)
 Manufacturer: Makhteshim Agan of North America, Inc.
 4515 Falls of Neuse Road, Suite 300
 Raleigh, NC 27609
 Phone: 919-256-9300
 For fire, spill, and/or leak emergencies, contact Infotrac: Phone: 1-800-535-5053
 For medical emergencies and health and safety inquiries, contact Prosar: Phone: 1-877-250-9291

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Streptomycin sulfate	3810-74-0	22.4	NE	NE	NA	NA
NE=not established NA=not available						

3. HAZARDS IDENTIFICATIONS

PHYSICAL PROPERTIES

Appearance: Tan powder
 Odor: Fermentation-like

EMERGENCY OVERVIEW: 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.

ROUTES OF ENTRY: Skin and eye contact.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Thermal decomposition products may include, but are not limited to, oxides of nitrogen, carbon and sulfur.

MEDICAL CONDITIONS LIKELY TO BE AGGRAVATED BY EXPOSURE: None known.

4. FIRST AID MEASURES

FIRST AID	
IF IN EYES:	<ul style="list-style-type: none"> 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 SWALLOWED:	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person drink a glass of water or two 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.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice if irritation persists.
IF INHALED:	<ul style="list-style-type: none"> 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.	

5. FIRE FIGHTING MEASURES

FLASH POINT: Not flammable

FLAMMABLE LIMITS

LFL: Not established

UFL: Not established

EXTINGUISHING MEDIA: Foam, CO₂, dry chemical.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Thermal decomposition products may include, but are not limited to, oxides of nitrogen, carbon and sulfur.

FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Use proper personal protective equipment. Sweep up and place into a secure container for proper disposal. Wash spill area with water containing a strong detergent, absorb with absorbent material and place in container for disposal.

7. HANDLING AND STORAGE

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

PRECAUTIONS TO BE TAKEN IN HANDLING: Keep container closed when not in use. Handle and open container in a manner as to prevent spillage. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment. Do not reuse empty container.

PRECAUTIONS TO BE TAKEN IN STORAGE: Keep tightly closed. Storage should be at a cool temperature when possible and within minimum exposure to the atmosphere.

STORAGE TEMPERATURE (MIN/MAX): Normal ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

SKIN PROTECTION: Long sleeved shirt, long pants, shoes plus socks.

HAND PROTECTION: Chemical-resistant gloves made of any waterproof material.

RESPIRATOR REQUIREMENTS: When needed, based on the conditions of use, wear a NIOSH-approved respirator with any N, R, P or HE filter.

ADDITIONAL PROTECTIVE MEASURES: 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.
- Remove clothing immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Refer to product label.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Tan powder

FLASH POINT: Not flammable

PH: 5.59

BOILING POINT: Not applicable

MELTING POINT: Not established

SOLUBILITY: Not established

BULK DENSITY: 0.227 g/ml

VAPOR PRESSURE: Not applicable

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

MATERIALS TO AVOID: Moisture in airtight containers, strong acids and bases.

HAZARDOUS POLYMERIZATION: Will not occur.

INSTABILITY CONDITIONS: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES

Acute Oral LD50 (Rat): >5,436 mg/kg

Acute Dermal LD50: >5000 mg/kg

Acute Inhalation LC50: >2.6 mg/L

Eye Irritation: Mildly irritating.

Dermal Irritation: Non-irritating.

Dermal Sensitization: Not considered to be a contact sensitizer but may cause sensitization in some individuals.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This product may be hazardous to aquatic plants. Do not apply directly to water, areas where surface water is present, or to intertidal area below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

13. DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.

PRODUCT DISPOSAL: Do not contaminate water, food, or feed by disposal. Open dumping is prohibited. Waste resulting from the use of this product should be disposed at an approved waste disposal facility.

CONTAINER DISPOSAL: Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Not regulated.

INTERNATIONAL TRANSPORTATION

IMO (vessel): Not regulated.

IATA (air): Not regulated

15. REGULATORY INFORMATION

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)
Delayed health hazard (chronic)

Section 313: Not applicable

CA PROPOSITION 65: This product contains a chemical (streptomycin sulfate) known to the state of California to cause cancer or reproductive toxicity.

CERCLA RQ: Not applicable

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RCRA CLASSIFICATION: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

NFPA HAZARD RATINGS

	NFPA		
HEALTH:	1	0	MINIMAL
FLAMMABILITY:	1	1	SLIGHT
REACTIVITY:	0	2	MODERATE
		3	HIGH
		4	SEVERE

MSDS DATE: 12-28-09. Superseded version dated 2-1-06. Changes made to sections 7, 13, 14 and 15.

The information herein is given in good faith, but no warrant, express or implied, is made. Consult Makhteshim Agan of North America, Inc. for further information.