

STREPTOMYCIN 3000 DUST

Repar Corporation
 P.O. Box 4321
 Silver Spring, MD 20914
 In Case of Emergency, Call Chemtrec (1-800-424-9300)

1. PRODUCT IDENTIFICATION

Product Name: STREPTOMYCIN 3000 DUST
Product No.: RC004
EPA Signal Word: Caution
Active Ingredient(%): Streptomycin Sulfate (0.75%)
CAS No.: 3810-74-0
Chemical Name: O-2-deoxy-2-methylamino-alpha-L-glucopyranosyl-(1->2)-O-5-deoxy-3-C-formylalpha-L-lyxofuranosyl-(1->4)-N3, N3-diamidino-Dstreptamine-sulfate (2:3)
Chemical Class: Antibiotic For Agricultural Control Of Bacterial Diseases In Plants
EPA Registration Number(s): 69361-4

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/ IARC/ OSHA Carcinogen
Streptomycin Sulfate (0.75%)	Not Established	Not Established	Not Established	No
Other Ingredient	Not Known	Not Known	Not Known	No

Inert or other Ingredients (99.25%) not precisely identified are proprietary or non-hazardous.

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure

Exposure may cause skin or eye irritation. A skin sensitization (allergic) reaction may occur in some individuals. Antibiotics have the potential to significantly change the microflora of the intestine and allow over growth of nonsusceptible organisms.

Hazardous Decomposition Products

Can decompose at high temperatures forming toxic gases.

Physical Properties

Appearance: White powder
 Odor: No recognizable or identifiable odor

Unusual Fire Explosion and Reactivity Hazards During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

4. FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling Repar (202-223-1424), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call Repar (202-223-1424), Chemtrec (1-800-424-9300), a poison control center or doctor immediately for treatment advice. Have the 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.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then

continue rinsing eye. Call a poison control center or doctor for treatment advice. **Skin Contact:** 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.

Inhalation: 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.

Notes to Physician

There is no specific antidote if this product is ingested. Be alert for possible intestinal obstruction. Treat symptomatically.

An aqueous suspension of activated charcoal can be administered to absorb remaining toxicant. Monitor serum aminoglycoside concentration, renal and eighth cranial nerve function carefully. Obtain baseline serum creatinine and BUN.

Observe for anaphylactic type reaction. Management of anaphylactics include establishment of open airway with use of epinephrine and diphenhydramine. Maintain good urine output (3 to 6 mL/kg/hr) with IV fluids. Hemodialysis or peritoneal dialysis should be considered in the presence of renal failure.

Medical Condition Likely to be Aggravated by Exposure

Individuals with allergic history or pre-existing dermatitis should use extra care in handling this product.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): Not Applicable
 Flammable Limits (% in Air): Lower: % Not Applicable
 Upper: % Not Applicable
 Autoignition Temperature: Not Available
 Flammability: Not Available

Unusual Fire Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire

Use dry chemical, foam or CO₂ extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

In case of Spill or Leak

Control the spill at its source. Contain the spill to prevent it from spreading, contaminating soil, or entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. If a solid, sweep up material and place in a compatible disposal container. If a liquid, cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

FOR COMMERCIAL APPLICATIONS AND ON FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. A NIOSH-certified combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder
 Odor: No identifiable odor
 Melting Point: Not Applicable
 Boiling Point: Not Available
 Specific Gravity/Density: 1.50 g/mL pH: 5.0 (5% Solution)
Solubility in H₂O
 Streptomycin Sulfate: >20 g/L in water (pH 7, 82°F (28°C))
Vapor Pressure
 Streptomycin Sulfate: Not Available

10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.
 Hazardous Polymerization: Will not occur.

Conditions to Avoid: Use airtight containers to protect from moisture.

Materials to Avoid: Strong acids and bases. Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Finished Product
Ingestion: Practically Non-Toxic
 Oral (LD50 Rat) : > 5,000 mg/kg body weight
Dermal: Slightly Toxic
 Dermal (LD50 Rat) : > 2,000 mg/kg body weight
Inhalation: Slightly Toxic
 Inhalation (LC50 Rat) : > 2.72 mg/l air - 4 hours
Eye Contact: Mildly Irritating (Rabbit)
Skin Contact: Slightly Irritating (Rabbit)
Skin Sensitization: Not a Sensitizer (Guinea Pig)

Neurotoxicity

Streptomycin Sulfate: Neurotoxic and ototoxic.

Reproductive Effects

Streptomycin Sulfate: Auditory nerve damage in the developing fetus.

Chronic/Subchronic Toxicity Studies

Streptomycin Sulfate: Severe allergic reactions (anaphylactic). Clinical studies reported kidney damage and ear damage manifested by nausea, vomiting, dizziness, numbness/tingling of face.

Carcinogenicity

Streptomycin Sulfate: None observed.

Other Toxicity Information

None.

Toxicity of Other Components

Diluent

Inhalation of high dust levels can cause pneumoconiosis or pulmonary fibrosis. Listed by IARC as a group 2A carcinogen based on limited evidence in humans and sufficient data in animals. NTP recognizes this as a substance reasonably anticipated to be a carcinogen.

Target Organs

MATERIAL SAFETY DATA SHEET

Active Ingredients

Streptomycin Sulfate: Kidney, ear, skin

Inert Other Ingredients

Diluent: Respiratory system

12. ECOLOGICAL INFORMATION

Summary of Effects

Streptomycin Sulfate: Not Available

Eco-Acute Toxicity

Streptomycin Sulfate: Not Available

Eco-Chronic Toxicity

Streptomycin Sulfate: Not Available

Environmental Fate

Streptomycin Sulfate: Not Available

13. DISPOSAL CONSIDERATIONS

Disposal

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification Not regulated by DOT.

B/L Freight Classification Insecticides or Fungicides; Agricultural, N.O.S.

Comments:

None

15. REGULATORY INFORMATION

EPCRA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard

And Chronic Health Hazard

Section 313 Toxic Chemicals: Not Applicable

California Proposition 65

This product contains a chemical (streptomycin sulfate) known to the state of California to cause cancer or reproductive toxicity [listed Jan. 1991].

This product contains a chemical (inert ingredient) which has no significant risk level.

CERCLA/SARA 302 Reportable Quantity (RQ)

None

RCRA Hazardous Waste Classification 40 CFR 261)

Not Applicable

TSCA Status

Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

<u>NFPA Hazard</u>	<u>HMS Hazard</u>	
<u>Rating</u>	<u>Ratings</u>	0 Minimal
Health: 1	Health: 1	1 Slight
Flammability: 1	Flammability: 1	2 Moderate
Instability: 0	Reactivity: 0	3 Serious
		4 Extreme

For non-emergency questions about this product call:

CHEMTREC (1-800-424-9300)

Original Issued Date: 01/02/2004

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.