



# SAFETY DATA SHEET

## 1. Product Identification:

### Product Name: STREPTOMYCIN 3000 DUST

**Manufacturer:** Repar Corporation  
**Telephone:** 202-223-1424  
**Address:** P.O. Box 4321  
**City, State, Zip:** Silver Spring, MD 20914  
**Emergency Phone:** 202-223-1424 (Monday-Friday, 10:00 a.m. – 6:00 p.m.)  
**24 Hour Emergency Phone (CHEMTREC):** 1-800-424-9300  
**U.S. EPA Registration No.:** 69361-4  
**Product Use:** Antibiotic for Agricultural Use

## 2. Health Hazard(s) Identification:

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

Off-white powder

**HEALTH HAZARDS:** CAUTION! Mild eye irritant.

**PHYSICAL HAZARDS:** May release toxic fumes if burned.

**ENVIRONMENTAL HAZARDS:** May be hazardous to aquatic plants.



## 3. Composition/Ingredient Information:

### Chemical Names:

Active Ingredients:	CAS Number	Percentage by Weight
O-2-deoxy-2-methylamino-alpha-L-glucopyranosyl-(1->2)-O-5-deoxy-3-C-formyl alpha-L-lyxofuranosyl-(1->4)-N3, N3-diamidino-D-streptamine-sulfate (2:3)	3810-74-0	0.75%

### Common Name of Active Ingredient:

Streptomycin Sulfate	3810-74-0	0.75%
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### Other Ingredients:

Inert Ingredients	N/A	99.25%
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\*Inert ingredient identity is confidential business information

## 4. First Aid Measures:

### If in Eyes:

- Hold eye open and rinse slowly with a steady, gentle stream of water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call poison control center or physician for treatment advice.

### If on Skin or Clothing:

- Take off contaminated clothing.
- Wash skin with plenty of water for 15-20 minutes.
- Call a poison control center or physician for treatment advice, if irritation persists.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**NOTE TO PHYSICIAN:** There is no specific antidote if this product is ingested. Be alert to 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:

**EXTINGUISHING MEDIA:** Use dry chemical, foam or CO<sub>2</sub> extinguishing media.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:** During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

**SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS:** 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:

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

**PERSONAL PRECAUTIONS:** Follow protective measures indicated in Section 8: Exposure Control/Personal Protection for both emergency and non emergency personnel. Avoid breathing dusts.

**ENVIRONMENTAL PRECAUTIONS:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**METHODS FOR CLEANING UP:** Sweep up spills and transfer to approved chemical containers for disposal or rework. Keep dusting to a minimum. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid and place into compatible disposal container, and seal once all material is cleaned up. Check local, state and federal regulations for proper disposal. Check local or provincial regulations for proper disposal. Flush the area with water to remove any residue.

## 7. Handling and Storage:

### HANDLING AND STORAGE PRECAUTIONS:

**HANDLING:** Handle with care to avoid unintentional release of product. Prevent contact with strong acids or bases through handling. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove PPE immediately after handling this product.

**STORAGE:** Keep tightly closed. Storage should be at cool temperature when possible, and with minimum exposure to atmosphere. Do not contaminate water, food or feed or strong acids or bases through storage.

## 8. Exposure Control/Personal Protection:

**EXPOSURE GUIDELINES:** Occupational exposure limit (OEL) and biological limit values (BLV) for Streptomycin Sulfate – CAS No.: 3810-74-0 not established, control banding approach not available.

**APPROPRIATE ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to minimize airborne dust levels.

**WORK/HYGIENE PRACTICES:** Emergency shower and eyewash facilities should be in close proximity (ANSI Z358.1). Launder contaminated clothing and wash hands and face after use. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

The following personal protective equipment should be used in conjunction with exposure control measures:

**EYE/FACE PROTECTION:** Chemical resistant goggles

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

**RESPIRATORY PROTECTION:** Dust/mist filtering respirator (NIOSH approval number prefix TC-21C)

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

## 9. Physical & Chemical Properties:

**APPEARANCE:** Off-white Powder

**ODOR:** No identifiable odor

**ODOR THRESHOLD:** NA

**pH:** NA

**MELTING POINT:** NA

**BOILING POINT:** NA

**FLASH POINT:** NA

**EVAPORATION RATE:** ND

**FLAMMABILITY (solid, gas):** Not flammable

**LOWER FLAMMABILITY LIMIT:** ND

**UPPER FLAMMABILITY LIMIT:** ND

VAPOR PRESSURE: NA  
VAPOR DENSITY: ND  
RELATIVE DENSITY (H<sub>2</sub>O = 1): 2.8 g/m<sup>3</sup>  
SOLUBILITY: Completely insoluble in water  
PARTITION COEFFICIENT (n-octanol/water): NA  
AUTO-IGNITION TEMPERATURE: ND  
DECOMPOSITION TEMPERATURE: ND  
VISCOSITY: NA

## 10. Stability & Reactivity:

REACTIVITY: Hygroscopic  
STABILITY: Stable under normal use and storage conditions  
HAZARDOUS REACTIONS: Hazardous polymerization will not occur.  
CONDITIONS TO AVOID: Use airtight containers to prevent contact with moisture  
INCOMPATIBLE MATERIALS: Strong acids or bases  
HAZARDOUS DECOMPOSITION PRODUCTS: Can decompose at high temperatures forming toxic gases.

## 11. Toxicological Information:

Oral LD<sub>50</sub> (rat): >5,000 mg/kg bw  
Dermal LD<sub>50</sub> (rat): >2,000mg/kg bw  
Inhalation LC<sub>50</sub> (rat): >2.72 mg/L air – 4 hours  
Skin irritation (rabbit): Slightly Irritating  
Skin sensitization (guinea pig): Not a Sensitizer  
Eye irritation (rabbit): Mildly Irritating  
Aspiration hazard: ND

### ROUTES OF EXPOSURE:

SKIN: Slightly irritating and slightly toxic when absorbed through the skin.

EYE CONTACT: Mildly irritating to the eyes.

ADVERSE EFFECTS AND SYMPTOMS: ND

DELAYED OR IMMEDIATE EFFECTS FROM SHORT OR LONG TERM EXPOSURE: ND

NUMERICAL MEASURES OF TOXICITY: ND

INTERACTIVE EFFECTS: ND

### Toxicological Data for Streptomycin Technical:

Mutagenicity: Not mutagenic  
Carcinogenicity: Not carcinogenic  
Reproductive Toxicity: May cause auditory nerve damage in developing fetus  
Developmental Toxicity: Not a developmental toxicant  
Specific target organ toxicity (STOT):  
STOT-single exposure: ND  
STOT-repeated exposure: Clinical studies reported kidney damage and ear damage manifested by nausea, vomiting, dizziness, numbness/tingling of face.

## 12. Ecological Information:

### Ecological Data for Streptomycin Technical

96h LC <sub>50</sub>	Bluegill	>180 ppm
96h LC <sub>50</sub>	Rainbow trout	>180 ppm
96h EC <sub>50</sub>	FW Alga	6.9 ppb
Acute LC <sub>50</sub>	Bobwhite quail	>2,000 mg/kg
8 day LC <sub>50</sub>	Bobwhite quail	>5,620 ppm
8 day LC <sub>50</sub>	Mallard duck	4,640 ppm

PERSISTENCE AND DEGRADABILITY: Degradation in soil and water is mediated by bacterial decomposition typically occurring in 2-3 weeks. The major degradant in water and soil is methylamine.

BIOACCUMULATIVE POTENTIAL: ND – Not required (required for technical)

MOBILITY IN SOIL: Does not leach but binds tightly to soil and particulates.

## 13. Disposal Considerations:

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water, food, or feed by disposal.

CONTAINER DISPOSAL: Completely empty container or bag into application equipment. Then dispose of container or bag in a sanitary landfill, by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke

## 14. Transport Information:

SHIPPING DESCRIPTION: Not regulated by USDOT  
(Ground transport)

DOT HAZARD CLASS: N/A  
IDENTIFICATION NUMBER: N/A  
DOT PACKING GROUP: N/A

## 15. Regulatory Information:

This chemical is a pesticide product registered with the U.S. Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Following is the hazard information as required on the pesticide label:

**SIGNAL WORD: CAUTION**

Cause moderate irritation. Avoid contact with eyes and clothing.

## 16. Other Information:

HMIS HAZARD RATING	HEALTH	1
	FLAMMABILITY	1
	PHYSICAL HAZARD	0
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

REVISED DATE: August 26, 2016

REFERENCE: Revised for GHS compliance