



SAFETY DATA SHEET

1. Product Identification:

Product Name: REPAR STREPTOMYCIN 17

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.: 69361-9
Product Use: Antibiotic for Agricultural Use

2. Health Hazard(s) Identification:

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

White powder

HEALTH HAZARDS: WARNING! Moderate eye irritant.
PHYSICAL HAZARDS: May release toxic fumes if burned.
ENVIRONMENTAL HAZARDS: May be hazardous to aquatic plants.



3. Composition/Ingredient Information:

Chemical Names:

<u>Active Ingredient:</u>	<u>CAS Number</u>	<u>Percentage by Weight</u>
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	22.4%

Common Name of Active Ingredient:

Streptomycin Sulfate	3810-74-0	22.4%
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Other Ingredients:

Inert Ingredients	N/A	77.6%
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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 a poison control center or physician for treatment advice.

If Swallowed:

- Have 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.
- Call poison control center or doctor 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.

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 physician for treatment advice.

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 CO₂ 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: Clean up spills immediately, following protective measures indicated in Section 8: Exposure Control/Personal Protection for both emergency and non-emergency personnel. Avoid breathing dust.

ENVIRONMENTAL PRECAUTIONS: 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.

METHODS FOR CLEANING UP: If a solid, sweep up material and place into a 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 disposal.

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: Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Keep tightly closed. Storage should be at a cool temperature when possible, and with minimum exposure to atmosphere. Avoid contamination of water, food, or feed by storage as well as contact with strong acids or bases.

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: Use chemical splash goggles.

SKIN PROTECTION: Wear long sleeve shirt, long pants, and shoes plus socks.

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

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

9. Physical & Chemical Properties:

APPEARANCE:	White powder
ODOR:	No identifiable odor
ODOR THRESHOLD:	NA
pH:	5 in a 5.0% solution
MELTING POINT:	NA
BOILING POINT:	NA
FLASH POINT:	NA
EVAPORATION RATE:	NA
FLAMMABILITY (solid, gas):	Not Flammable
LOWER FLAMMABILITY LIMIT:	ND
UPPER FLAMMABILITY LIMIT:	ND
VAPOR PRESSURE:	NA
VAPOR DENSITY:	ND
RELATIVE DENSITY (H₂O = 1):	1.50 g/cm ³
SOLUBILITY (water):	Completely soluble in water (20g/L, pH 7, 82°F (28°C))
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 and bases
HAZARDOUS DECOMPOSITION PRODUCTS: Can decompose at high temperatures forming toxic gases.

11. Toxicological Information:

Toxicological Data for Repar Streptomycin 17:

Oral LD₅₀ (rat): >5,000 mg/kg bw
Dermal LD₅₀ (rabbit): >2,000mg/kg bw
Inhalation LC₅₀ (rat): >2.72 mg/L air – 4 hours
Skin irritation (rabbit): Slightly irritating
Skin sensitization (guinea pig): Not a Sensitizer
Eye irritation (rabbit): Moderately irritating
Aspiration hazard: ND

ROUTES OF EXPOSURE:

SKIN: Slightly toxic and slightly irritating based on toxicity studies.
EYE CONTACT: Causes moderate eye irritation. May cause pain, redness and tearing.
DELAYED OR IMMEDIATE EFFECTS FROM SHORT OR LONG TERM EXPOSURE: None expected
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.
ADVERSE EFFECTS AND SYMPTOMS: May cause severe allergic reactions (anaphylactic) in sensitive individuals.
Target Organs:
Streptomycin Sulfate: Kidney, ear, skin
Inert Ingredients (Diluent): Respiratory system

12. Ecological Information:

Ecological Data for Streptomycin Technical

96h LC₅₀ Bluegill >180 ppm
96h LC₅₀ Rainbow trout >180 ppm
96h EC₅₀ FW Alga 6.9 ppb
Acute LC₅₀ Bobwhite quail >2,000 mg/kg
8 day LC₅₀ Bobwhite quail >5,620 ppm
8 day LC₅₀ 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:

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

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:

CAUTION

Harmful if absorbed through skin. Causes moderate eye irritation.

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: September 23, 2016

REFERENCE: Revised for GHS compliance