



SAFETY DATA SHEET

1. Product Identification:

Product Name: REPAR STREPTOMYCIN 50

Manufacturer: Repair 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.: 69361-48
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: Warning. May be harmful if absorbed through the skin.

PHYSICAL HAZARDS: May release toxic fumes if burned.

ENVIRONMENTAL HAZARDS: May be hazardous to aquatic plants.



3. Composition/Ingredient Information:

Chemical Names:

Active Ingredient:	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	65.8%

Common Name of Active Ingredient:

Streptomycin Sulfate	3810-74-0	65.8%
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Other Ingredients:

Inert Ingredients	N/A	34.2%
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*Inert ingredient identity is confidential business information

4. First Aid Measures:

If in Eyes:

- 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 physician for further treatment advice.

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 physician for treatment advice.

If Inhaled:

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

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For Medical Emergency Assistance, call the National Capital Poison Control Center 1-800-222-1222

NOTE TO PHYSICIAN: No specific antidote. Treat symptomatically.

5. Fire Fighting Measures:

EXTINGUISHING MEDIA: Large fires: dry chemical, foam or CO₂; extinguishing medium, small fires: dry chemical or CO₂

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: During a fire, irritating and possibly toxic gasses may be generated by thermal decomposition or combustion. Thermal decomposition products may include, but are not limited to oxides of nitrogen, carbon and sulfur.

SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full fire-fighting turn out gear. 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. Dike area to prevent runoff and contamination of water sources. Water runoff can cause environmental damage. Dispose of fire control water later.

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.

ENVIRONMENTAL PRECAUTIONS: Prevent material from entering public sewer systems or waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and place in appropriate container for disposal.

METHODS FOR CLEANING UP: Avoid creation of dusty conditions. If dry, sweep or scoop up materials and place into container for disposal. If wet, pump any free liquid into appropriate closed container. Decontaminate tools and equipment following cleanup. See Section 13: Disposal Considerations for more information.

7. Handling and Storage:

HANDLING AND STORAGE PRECAUTIONS:

HANDLING: Avoid unintentional release, contact with skin, eyes, or clothing through handling. Avoid contact with strong oxidizing agents: bases and acids through handling. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using toilet.

STORAGE: Keep tightly closed. Store at cool temperature when possible, and with minimal exposure to atmosphere. Do not contaminate water, food or feed by storage. Avoid contact with strong oxidizing agents: bases and acids 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: Where engineering controls are indicated by specific use conditions or a potential for excessive exposure, use local exhaust ventilation at the point of generation.

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: Protective eyewear

SKIN PROTECTION: Coveralls and shoes plus socks

RESPIRATORY PROTECTION: NIOSH/MSHA approved respirator, following manufacturer's recommendations, should be used as a precautionary measure where airborne contaminants may occur. (OSHA Standard 29 CFR 1910.134).

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

9. Physical & Chemical Properties:

APPEARANCE:	Off-white powder
ODOR:	Odorless
ODOR THRESHOLD:	NA
pH:	5 - 6
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 (H ₂ O = 1):	.352 g/cm ³
SOLUBILITY (water):	20 g/l @ 82.4°F (28°C)
PARTITION COEFFICIENT (n-octanol/water):	NA
AUTO-IGNITION TEMPERATURE:	ND
DECOMPOSITION TEMPERATURE:	ND
VISCOSITY:	NA

10. Stability & Reactivity:

REACTIVITY: Hygroscopic

STABILITY: This material is stable under normal handling and storage conditions.

HAZARDOUS REACTIONS: hazardous polymerization will not occur.

CONDITIONS TO AVOID: Avoid moisture

INCOMPATIBLE MATERIALS: Strong oxidizing agents: bases and acids

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include, but are not limited to oxides of nitrogen, carbon and sulfur.

11. Toxicological Information:

Toxicological Data for Repar Streptomycin 50:

Oral LD ₅₀ (rat and mouse):	>9,000 mg/kg
Dermal LD ₅₀ (rat):	>2,000 mg/kg
Inhalation LC ₅₀ (rat):	>2.72 mg/L
Skin irritation (rabbit):	No Irritation
Skin sensitization:	Potential skin sensitizer
Eye irritation (rabbit):	Moderate irritation
Aspiration hazard:	ND

ROUTES OF EXPOSURE:

INHALATION: Low inhalation toxicity. May cause respiratory tract irritation if inhaled. Allergic reactions, possibly serious, may develop in individuals who are sensitive to tetracyclines.

SKIN: Minimally toxic and non-irritation based on toxicity studies. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

EYE CONTACT: May cause moderate eye irritation.

DELAYED OR IMMEDIATE EFFECTS FROM SHORT OR LONG TERM EXPOSURE:

Repeated skin exposure may cause allergic reactions in some individuals.

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.

12. Ecological Information:

Ecological Data for Streptomycin Technical

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

Nonrefillable Plastic Containers: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in sanitary landfill, or by other procedures approved of by State and local authorities, by burning. If burned stay out of smoke.

Nonrefillable Bags: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment, then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn unless permitted by state and local ordinance. If burned stay out of smoke.

Refillable Drum with Nonrefillable Liner: Refill this container with pesticide only. Do not use this container for any other purpose. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment or a mix tank. Then, dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities by burning. If burned, stay out of smoke. If drum is contaminated and cannot be reused, dispose of in the same manner required for this liner.

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

Harmful if absorbed through the skin. Harmful if inhaled

16. Other Information:

HMIS HAZARD RATING	HEALTH	ND
	FLAMMABILITY	0
	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: June 2, 2015

REFERENCE: Revised for GHS compliance