

Safety Data Sheet

Neomycin Sulfate Tablet, USP

Section 1: Chemical Product and Company Identification

Product Name: Neomycin Sulfate Tablet, USP

Chemical Name(s): Neomycin Sulfate

Synonym: Not available

CAS Number: 1405-10-3

RTECS #: QP4375000

Trade Name: *Not available*

Chemical Formula: $C_{23}H_{52}N_6O_{25}S_3$



Health	2
Fire	1
Reactivity	0
Personal Protection	E

Contact Information:

X-GEN Pharmaceuticals, Inc.

PO Box 445, Big Flats, NY 14814

Technical Assistance: 607-562-2700

Online Assistance: www.x-gen.us

Emergency phone number:

National Poison Control

1-800-222-1222

**For information regarding recommended uses and restrictions on usage refer to the product package insert.

Section 2: Hazard Identification

Hazard pictograms (GHS-US):



Potential Acute Health Effects: Very hazardous in case of ingestion. Hazardous in case of eye contact (irritant), of inhalation. Slightly hazardous in case of contact (irritant, permeator)

Potential Chronic Health Effects: Possible hyper-sensitization, intestinal malabsorption syndrome, and superinfection. May damage fertility or unborn child.

Carcinogenic Effects: Not available

Mutagenic Effects: Not available

Teratogenic Effects: Not available

Developmental Toxicity: Not available

Adverse effects: Not available

Section 3: Composition and Information on Ingredients

Principle Components:

<u>Name</u>	<u>CAS #</u>	<u>% by Weight</u>
Neomycin sulfate	1405-10-3	100

Section 4: First Aid Measures

General: Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposure. If person is not breathing give artificial respiration. If breathing is difficult give oxygen. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. Obtain medical attention.

Inhalation: If inhaled may cause irritation. Remove to fresh air and rest in a well ventilated area. Seek medical attention immediately.

Skin contact: Causes mild irritation and is readily absorbable. Immediate flush skin with copious amounts of water while removing contaminated clothing and shoes. Wash contaminated clothes before reusing. Seek medical attention immediately.

Eye contact: May cause irritation. Check for and remove any contacts lenses. Do not use an eye ointment. Flush with copious amounts of water. Seek medical attention immediately.

Ingestion: DO NOT induce vomiting. May cause irritation. Flush mouth out with water. This material is poorly absorbed through the gastrointestinal tract. Seek medical attention immediately.

Notes to physician: Seek product package insert for complete information.

Overdose Treatment: Not available

Section 5: Fire Fighting Measures

Flammability of the product: May combust at high temperatures.

Combustion Products: These products are carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃...), nitrogen oxides (NO, NO₂...).

Unusual Fire and Explosion Hazards: This material is assumed to be combustible. As with all dry powders it is advisable to ground mechanical equipment in contact with to dissipate the potential buildup of static electricity.

Extinguishing Media and instruction:

Small fire: Use DRY chemical powder. **Large fire:** Use water spray, carbon dioxide or foam. DO NOT use water jet.

Protective equipment & precautions for firefighters: As with all fires, evacuate personnel to a safe area. Firefighters should wear self-contained breathing apparatus and protective clothing.

Special remarks on fire hazard: Not available

Special remarks on explosion hazard: Not available

Section 6: Accidental Release Measures**Release to land:**

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Sweep up or vacuum with caution to avoid generation of dust during clean-up. Finish cleaning by spreading water on the contaminated surface and clean surface thoroughly to remove residual contamination. Collect in suitable container for disposal. For proper waste disposal, see section 13 of the SDS.

Release to air: If dust is generated, wear a disposable dust respirator (N95), and reduce exposures by ventilating area.

Release to Water: Refer to local water authority; drain disposal is not recommended.

Protective equipment: Keep unnecessary personnel away. Wear latex or nitrile gloves, safety glasses, and a disposable dust mask (N95), wear protective coveralls and shoe covers for spills.

Section 7: Handling and Storage

Handling: As a general rule, when handling Neomycin Sulfate Tablets, USP, avoid all contact and inhalation of dust, mists and/or vapors associated with this material.

Keep away from heat and sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Use only in accordance with directions.

Storage: Keep container tightly closed. Keep container in a cool, dry, well ventilated area (see USP CRT storage conditions). Protect from light and store at controlled room temperature 20° - 25°C (68° - 77°F). Refer to label instructions to ensure product integrity.

Incompatibilities: Should be stored away from extreme heat and away from strong oxidizing agents.

Section 8: Exposure Controls / Personal Protection

Engineering Controls: Use process enclosure, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generates dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Splash goggles. Lab coat. Gloves. Approved/certified dust respirator or equivalent. **In case of Large Spill:** Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Respiratory Protection: Under normal use, respirators are not required. If dusts are generated, use a disposable mask (N95). Personnel wearing respirators should be fit tested and approved for respirator use, under OSHA Respiratory Protection Standard 29 CFR 1910.134.

Exposure limit: Not available

Section 9: Physical and Chemical Properties

Physical appearance: Solid (powder)

Color: White to slightly yellow

Molecular Weight: 908.87 g/mole

Taste: Not available

Odor: Odorless or almost odorless

Odor Threshold: Not available

pH: Not available

Melting Point: Decomposes

Freezing Point: Not available

Boiling Point: Not available

Flash Point: Not available

Evaporation rate: Not available

Flammability: May combust at high temperatures

Upper Flammable Limit: Not available

Lower Flammable Limit: Not available

Vapor Pressure: Not available

Vapor Density: Not available

Relative density: Not available

Partition Coefficient: Not available

Auto-Ignition Temperature: Not available

Decomposition Temperature: Not available

Viscosity: Not available

Dispersion Properties: Not available

Solubility: Soluble in water. Very lightly soluble in alcohol; insoluble in acetone, chloroform and ether.

Section 10: Stability and Reactivity

Reactivity: No reactivity hazard known.

Chemical stability: The product is stable under normal conditions.

Possibility of hazardous reaction: No dangerous reaction known under normal conditions.

Conditions to avoid: Store away from acids, moisture, light and heat.

Incompatible materials: Acids

Hazardous decomposition products: When heated to decomposition, material emits very toxic fumes of sulfur oxides (SO_x & NO_x).

Corrosivity: Non-corrosive in presence of glass.

Polymerization: No

Section 11: Toxicological Information

Routes of exposure: Absorbed through skin, eye contact and inhalation.

Symptoms:

Short term: Hazardous in cases of inhalation. Slightly hazardous in case of skin contact (irritant, permeator). Very hazardous in case of ingestion. **Long term:** Possible hyper-sensitization, intestinal malabsorption syndrome, and superinfection. Aminoglycosides: Kidney damage, deafness. May damage fertility or unborn child.

Reproductive toxicity: Known to be excreted in maternal milk in animal.

FDA Pregnancy Category: D

Toxicity to animals:

Oral Rat: LD50: 2750 mg/kg

Oral Mouse: LD50: 2880 mg/kg

Measures of toxicity: Not available

Additional reproductive health and toxicity data is available from the National Institute for Occupational Safety and Health (NIOSH) and/or Registry of Toxic Effects of Chemical Substance (RTECS).

Section 12: Ecological Information

Ecotoxicity: Contains a substance which causes risk of hazardous effects to the environment. Handle in a manner that prevents spills or releases to the environment.

Bioaccumulation potential: Not available

Products of biodegradation: Possibly hazardous short term degradation products are not likely, however long term degradation products may arise.

Toxicity of the products of biodegradation: The products of degradation are more toxic.

Section 13: Disposal Information

Waste classification: Not available

Waste from residues/unused products: Dispose of waste in accordance with all applicable federal, state and local laws.

Waste Disposal: Dispose of waste in accordance with all applicable federal, state and local laws.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

UN Number: Not available

UN Shipping name: Not available

Transport hazard class: Not available

Packing Group: Not available

Environmental hazard: Not available

Transport in bulk: Not available

Special precautions needed with transport: Not available

Section 15: Regulatory Information

Federal and State Regulations: California Prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects, or other reproductive harm, which would require a warning under the statute: Neomycin Sulfate. TSCA 8(b) inventory: Neomycin Sulfate

Other Regulations: Not available

Other Classifications:

WHMIS (Canada): Class D-2B: material causing other toxic effects (TOXIC).

DSCL (EEC): R36-Irritating to eyes.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories: Immediate Hazard: Yes

Delayed Hazard: Yes

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

HMIS (U.S.A.):
Health Hazard: 2
Fire Hazard: 1
Reactivity: 0
Personal Protection: E

National Fire Protection Association (U.S.A.):
Health: 2
Flammability: 1
Reactivity: 0

Protective Equipment: Gloves. Lab coat. Splash goggles. Dust Respirator. Be sure to use an approved/certified respirator or equivalent.

Section 16: Other Information

References: Not available
Created: 1/30/2015
Last Updated: 3/27/2015
Prepared & Approved by: X-GEN Pharmaceuticals, Inc., Safety Committee

The above information is believed to be accurate and represents the best information currently available to us. The use of this product should be through or under the direction of a physician. This SDS does not address therapeutic use of this material. X-GEN Pharmaceuticals, Inc. makes no warranties, express or implied with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information. In no event should X-GEN Pharmaceuticals be liable for any claim, loss, or damage of any third party, even if X-GEN Pharmaceuticals has been advised of the possibility of such damages to occur.