

Section 1. Product and Company Identification

**Product Name** Neomycin Sulfate  
**CAS Number** 1405-10-3

**Parchem - fine & specialty chemicals**  
**415 Huguenot Street**  
**New Rochelle, NY 10801**  
📞 (914) 654-6800 📠 (914) 654-6899  
🌐 [parchem.com](http://parchem.com) ✉️ [info@parchem.com](mailto:info@parchem.com)

EMERGENCY RESPONSE NUMBER  
CHEMTEL  
Toll Free US & Canada: 1 (800) 255-3924  
All other Origins: 1 (813) 248-0585  
Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**GHS Classification**

Sensitization - Skin (Category 1)  
Sensitization - Respiratory (Category 1)  
Eye Irritation (Category 2A)  
Toxic to Reproduction (Category 1A)

**GHS Label Elements**

**Pictograms:**



**Signal word:** DANGER

**Hazard and precautionary statements**

**Hazard Statements**

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Causes serious eye irritation. May damage fertility or the unborn child.

**Australia-Only Hazards:** Not Applicable.

**Precautionary Statements**

**Prevention**

Avoid breathing dust, fume, gas, mist, vapors, spray. Contaminated work clothing must not be allowed out of the workplace. In case of inadequate ventilation wear respiratory protection. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye



protection, face protection.

**Response**

If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms call physician.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

If exposed or concerned: Get medical advice/attention.

**Storage**

Store locked up.

**Disposal**

Dispose of contents and/or container in accordance with local regulations.

**HMIS Rating**

**Health:** 2

**Flammability:** 1

**Reactivity:** 0

**Personal Protection:** E

Section 3. Composition / Information on Ingredients

**Common Name** Neomycin Sulfate  
**Formula**  $C_{23}H_{46}N_6O_{13} \cdot 3H_2SO_4$   
**CAS Number** 1405-10-3

COMPONENT	CAS NUMBER	CONCENTRATION
Neomycin Sulfate	1405-10-3	100% wt.

Section 4. First Aid Measures

**Eye Contact:** Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.

**Skin Contact:** Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

**Ingestion:** Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Symptoms and Effects:** Not expected to present a significant hazard under anticipated conditions of normal use.

Section 5. Firefighting Measures

**Specific Hazards Arising from the Chemical:** Not applicable

**Flammable Properties:** May be combustible at high temperature



**Hazardous Combustion Products:** Under fire conditions, hazardous fumes will be present.

**Extinguishing Media**

**Small fire:** Dry chemical, CO<sub>2</sub> or water spray.

**Large fire:** Dry chemical, CO<sub>2</sub>, alcohol resistant foam, or water spray. Do not get water inside containers.

**Protective Equipment and Precautions for Firefighters:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

**Personal precautions:** Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Methods & Material for Containment:** On land, sweep or shovel into suitable containers. Minimize generation of dust.

**Clean-up Procedure:** Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

Section 7. Handling and Storage

**Precautions for Safe Handling:** Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

**Storage Conditions:** Preserve in tight, light-resistant containers.

Section 8. Exposure Controls / Personal Protection

**Compound:** Neomycin Sulfate (CAS# 1405-10-3)

**OSHA PEL - TWA:** N/L

**OSHA PEL - Ceiling:** N/L

**OSHA PEL - Skin Designation:** N/L

**AIHA WEEL - 8hr TWA:** N/L

**AIHA WEEL - Ceiling:** N/L

**Safe Work Australia HSIS - TWA:** N/L

**Safe Work Australia HSIS - STEL:** N/L

**Exposure Guidelines:** Consult local authorities for provincial or state exposure limits



### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to minimize contact with skin.

**Respirators:** Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Specific Engineering Controls:** Adequate mechanical ventilation. Fume hood, eye wash station, and safety shower

### Section 9. Physical and Chemical Properties

**Physical State:** Solid

**Description:** White to slightly yellow powder, or cryodesiccated solid. Is odorless or practically so and is hygroscopic.

**Solubility:** Freely soluble in water; very slightly soluble in alcohol; insoluble in acetone, in chloroform, and in ether.

**Odor:** Odorless

**Flammability:** May be combustible at high temperature

**Odor Threshold:** Not available

**pH:** Not available

**Melting Point:** Not available

**Boiling Point:** Not available

**Freezing Point:** Not available

**Flash Point:** Not available

**Specific Gravity:** Not available

**Evaporation Rate:** Not available

**Explosive Limit:** Not available

**Upper Flammable/Explosive Limits:** Not available

**Lower Flammable/Explosive Limits:** Not available

**Vapor Pressure:** Not available

**Vapor Density (Air=1):** Not available

**Relative Density (Water=1):** Not available

**Log P (Octanol-Water):** Not available

**Auto-Ignition Temperature:** Not available

**Decomposition Temperature:** Not available

**Viscosity:** Not available



Section 10. Stability and Reactivity

**Reactivity:** Not established

**Stability:** Stable under recommended storage conditions

**Materials to Avoid:** Strong oxidants

**Hazardous Decomposition Products:** Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxide, sulfur oxide and other gases may occur

**Hazardous Polymerization:** Will not occur

**Possibility of Hazardous Reaction:** Not established

**Conditions to Avoid:** Moisture, sunlight and extreme temperatures

Section 11. Toxicological Information

**Acute Toxicity**

**LD50 Oral - Rat:** 2750 mg/kg

**Skin Corrosion/Irritation:** Not available

**Serious Eye Damage/Eye Irritation:** Not available

**Respiratory or Skin Sensitization:** Not available

**Germ Cell Mutagenicity:** Not available

**Carcinogenicity**

**OSHA:** Neomycin Sulfate is not listed.

**NTP:** Neomycin Sulfate is not listed.

**IARC:** Neomycin Sulfate is not evaluated.

**California Proposition 65:** This product contains the following chemical known to the State of California to cause birth defects or other reproductive harm: Neomycin Sulfate.

**Reproductive Toxicity:** Known to be toxic to the reproductive system.

**Specific Target Organ Toxicity - Single Exposure:** Not available

**Specific Target Organ Toxicity - Repeated Exposure:** Not available

**Aspiration Hazards:** Not available

**Signs and Symptoms of Exposure:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Potential Health Effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion:** May be harmful if swallowed.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation. May cause an allergic skin reaction.

**Eyes:** Causes eye irritation.



**NOTES** When given in orally in large doses, neomycin causes nausea, vomiting, and diarrhea. Prolonged oral use may cause a malabsorption syndrome with steatorrhoea and diarrhea which can be very severe. Suprainfection may occur, especially with prolonged treatment. Nephrotoxic effects may also occur. Hypersensitivity reactions, such as rashes, pruritus, and sometimes drug fever or even anaphylaxis, occur frequently during local treatment with neomycin. Respiratory depression and arrest has followed the intraperitoneal instillation of neomycin. Fatalities have occurred.

Section 12. Ecological Information

**Toxicity:** Not available

**Persistence and Degradability:** Not available

**Bioaccumulative Potential:** Not available

**Mobility in Soil:** Not available

**Other Adverse Effects:** Not available

This product is not intended to be released into the environment

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**UNITED STATES & CANADA**

**UN Proper Shipping Name:** Not dangerous good

**UN Number:** Not applicable

**Class:** Not applicable

**Packing Group:** Not applicable

**AUSTRALIA**

**UN Proper Shipping Name:** Not dangerous good

**UN Number:** Not applicable

**Class:** Not applicable

**Packing Group:** Not applicable

**HAZCHEM:** Not Applicable

**Environmental Hazards:** Not available

**Special Shipping Information:** Not applicable

Section 15. Regulatory Information

**Compound:** Neomycin Sulfate (CAS# 1405-10-3)

**CERCLA 40 CFR Part 302.4:** Not Listed

**SARA (Title III) 40 CFR Part 372.65:** Not Listed

**EPA 40 CFR Part 355 - Appendix A:** Not Listed

**EPA 40 CFR Part 355 - Appendix B:** Not Listed



**Right-to-Know - Pennsylvania:** Not Listed  
**Right-to-Know - New Jersey:** Not Listed  
**Right-to-Know - Massachusetts:** Not Listed  
**California Prop 65:** Listed

**Australian Regulations**

**Compound:** Neomycin Sulfate (CAS# 1405-10-3)  
**Poisons and Therapeutic Goods Regulation:** Not Listed  
**Therapeutic Goods Act:** Not Listed  
**Code of Practices - Illicit Drug Precursors:** Not Listed

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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