

Section 1. Product and Company Identification

Product Name Neomycin Sulfate
CAS Number 1405-10-3

Parchem - fine & specialty chemicals
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EMERGENCY RESPONSE NUMBER
CHEMTEL
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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, CO₂ or water spray.

Large fire: Dry chemical, CO₂, 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 steatorrhea 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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