

MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information			
Product Name or Identity:	Staph Supplement		
Manufacturer's Name:	Neogen Corporation	Emergency Phone No.:	517/372-9200
	620 Leshler Place	Fax No.:	517/372-0108
	Lansing, Michigan 48912	e-mail:	foodsafety@neogen.com
Date Prepared or Revised: August 2009		Chemtrec: (800) 424-9300 Outside US and Canada: (703) 527-3887	

Section 2. Composition / Information on Hazardous Ingredients			
This product is a mixture of the substances listed below with the addition of nonhazardous materials.			
Hazardous Components Specific Chemical Identity:	CAS-No.	%	Hazard Symbol
Nalidixic Acid	389-08-2	50%	Xn (Harmful)
Colistin Sulfate	1264-72-8	50%	T (Toxic)

Section 3. Health Hazard Identification	
Health Hazards: <i>(Acute and Chronic)</i>	Information pertaining to particular dangers for man and environment. R 25, Toxic if swallowed. R 36 / 38, Irritating to eyes and skin. R 42 / 43, May cause sensitization by inhalation and skin contact.

Section 4. First Aid Measures	
Emergency / First Aid Procedures:	General Information: Consult a physician. Show this MSDS to the physician in attendance.
	Ingestion: If swallowed, seek medical attention immediately. Show physician product label or MSDS. Do not induce vomiting.
	Inhalation: If inhaled, supply fresh air or oxygen. If not breathing give artificial respiration. Seek medical attention.
	Eye Contact: Rinse opened eye for at least 15 minutes under running water, lifting lower and upper eyelids occasionally. Seek medical attention.
	Skin Contact: Remove contaminated clothing. Immediately wash with plenty of soap and water for at least 15 minutes. Wash clothing before reuse. Consult a physician.

Section 5. Fire and Explosion Hazard Data	
Flash Point (Method Used): N/A	Flammable Limits: LEL – N/A UEL – N/A
Extinguishing Media: Use CO ₂ , ABC multipurpose dry chemical, or water spray. Fight larger fires with water spray or alcohol resistant foam.	
Protective Equipment: Wear self-contained breathing apparatus for fire fighting if necessary.	
Unusual Fire and Explosion Hazards: During heating or in case of fire, poisonous gases may be produced.	



Section 6. Accidental Release Measures

Personal Precautions: Evacuate personnel to safe areas. Wear suitable protective clothing. Remove contaminated clothing immediately. Avoid inhalation, contact with eyes and skin. Prevent formation of dust.

Environmental Precautions: Prevent dispersion of material. Wipe up with damp sponge or mop. Do not let material enter drains.

Clean-up Methods: Absorb material, ventilate area, and wash spill site after material has been cleaned up. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling: Provide appropriate exhaust ventilation at places where dust is formed. Avoid formation of dust and aerosols. Protect against physical damage.

Storage: Requirements to be met by storerooms and receptacles: 2 - 8°C

Do not store together with oxidizing agents or acidic materials. Store in cool, dry conditions in well sealed containers.

Other Precautions: Keep respiratory protective device available.

Section 8. Exposure Controls / Personal Protection

Components with limit values that require monitoring:

This product does not contain any relevant quantities of materials with occupational exposure limit values.

OSHA-PEL: N/A

REL: N/A

TLV: N/A

Additional Information: Personal Protection listed below are general requirements for laboratory personnel. Follow the usual precautionary measures for handling chemicals / powder. Avoid contact with eyes, skin, and clothing.

Personal Protective Equipment:

Keep away from food, beverages, and feed.

Wash hands before and after entering laboratory.

Immediately remove all contaminated clothing.

Avoid contact with skin and eyes.

Breathing Equipment: In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respiratory. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand Protection: Use chemical resistant gloves.

Eye Protection: Wear safety glasses or goggles.

Body Protection: Wear lab coat or other protective work clothing.

Section 9. Physical and Chemical Properties

Appearance: Not determined

Boiling Point: Not determined

Density: Not determined

Flash Point: Not applicable

Melting Point: Not determined

Auto Igniting: Product is not self-igniting

Solubility in Water: Soluble

Danger of explosion: Product does not present an explosion hazard.

pH: Not determined

Solvent Content: Organic solvents – 0.0%

Solids Content: 100.0%



Section 10. Stability and Reactivity

Stability:	Unstable		
	Stable	X	Conditions to Avoid: Stable under recommended storage conditions.
Incompatibility (Materials to Avoid): Incompatible with strong oxidizers and strong acids.			
Hazardous Decomposition or Byproducts: Nitrogen oxides, Sulfur oxides, and Carbon dioxide.			
Hazardous Polymerization:	May Occur		
	Will Not Occur	X	No dangerous reactions known.

Section 11. Toxicological Information

LD/LC50 values that are relevant:

LD₅₀: ORL-RAT, 2,040 mg/kg, Nalidixic acid (389-08-2)

LD₅₀: ORL-RAT, 121 mg/kg, Colistin sulfate (1264-72-8)

Carcinogenicity Classification:

IARC (International Agency for Research on Cancer) - Not listed

NTP (National Toxicology Program) - Not listed

Irritant: Irritant to eyes, skin, and mucous membranes.

Signs and Symptoms of Exposure: Hyperglycemia, nausea, dizziness, headache, vomiting, diarrhea and neurotoxic effects.

Sensitization: Photosensitizer.

Subacute to chronic toxicity: Target organs: Liver, Kidneys, Blood, Central Nervous System, Respiratory tract, and eyes.

Additional toxicological information: Laboratory experiments have shown mutagenic / teratogenic effects.

Section 12. Ecological Information

Ecotoxicity Tests: The ecological effects have not been thoroughly investigated.

Section 13. Disposal Considerations

Waste Disposal Method: Dispose in accordance with all applicable federal (40 CFR 261.3), state, and local environmental regulations. Keep waste separate, must not be disposed of with solid waste.

RCRA Hazardous Waste: No

Contact a licensed professional waste disposal service to dispose of this material if questions arise. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Container Information: Do not remove labels from containers until they have been cleaned.

Section 14. Transport Information

DOT Regulations:

UN #: 2811

Class: 6.1

Packing Group: III

Shipping Name: Toxic solids, organic, n.o.s (Colistin sulfate)

Label: Excepted / Limited Quantity

Land Transport ADR/RID (cross-border):

UN #: 2811

Class: 6.1

Packing Group: III

Shipping Name: Toxic solids, organic, n.o.s (Colistin sulfate)

Label: Excepted / Limited Quantity

Maritime Transport IMDG:

UN #: 2811

Class: 6.1

Packing Group: III

Shipping Name: Toxic solids, organic, n.o.s (Colistin sulfate)

Label: Excepted / Limited Quantity

Marine Pollutant: No**Air Transport ICAO-TI and IATA-DGR:**

UN #: 2811

Class: 6.1

Packing Group: III

Shipping Name: Toxic solids, organic, n.o.s (Colistin sulfate)

Label: Excepted / Limited Quantity

Section 15. Regulatory Information**EU Regulations, Hazard Symbol(s):****Nalidixic Acid:** Xn (Harmful)**Colistin Sulfate:** T (Toxic)**Risk Phrases:**

R 25, Toxic if swallowed.

R 36 / 38, Irritating to eyes and skin.

R 42 / 43, May cause sensitization by inhalation and skin contact.

Safety Phrases:

S 22, Do not breathe dust.

S 36 / 37, Wear suitable protective clothing and gloves.

S 45, In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

S 46, If swallowed, seek medical advice.

Section 16. Other Information

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.