



Material Safety Data Sheet
Streptomycin Sulfate

MSDS# 84290

Section 1 - Chemical Product and Company Identification

MSDS Name: Streptomycin Sulfate

Catalog
Numbers: , BP910-50, S70103

Synonyms: Streptomycin A Sulfate; Streptomycin Sesquisulfate; Agrimycin; Agristrep; Phytomycin;
Plantomycin; Strepcin.

Company Identification: Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 201-796-7100

Emergency Number US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#: 3810-74-0
Chemical Name: Streptomycin sulfate
%: 100.0
EINECS#: 223-286-0

Hazard Symbols: T



Risk Phrases: 60 61 20/21/22 36/37/38 42/43

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Irritant. May cause loss of hearing. May cause adverse reproductive effects. Harmful if swallowed, inhaled, or absorbed through the skin. May cause allergic respiratory and skin reaction. May cause nervous system effects. Possible risk of harm to the unborn child. Causes eye, skin, and respiratory tract irritation. Individuals with allergies or hypersensitivity to antibiotics should take caution. Target Organs: Kidneys, respiratory system, eyes, nervous system, reproductive system, skin, auditory system.

Potential Health Effects

Eye: Causes eye irritation. May cause chemical conjunctivitis.

Skin: Causes skin irritation. Harmful if absorbed through the skin. May cause an allergic reaction in certain individuals.

Ingestion: Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause kidney damage. May cause central nervous system effects. Hearing loss and deafness have been reported.

Inhalation: Causes respiratory tract irritation. May cause an allergic response. May cause hearing impairment. May cause central nervous system effects.

Chronic: May cause fetal effects. May cause adverse reproductive effects.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion

Limits: Not available

Lower:

Explosion

Limits: Not available

Upper:

NFPA health: 2; flammability: 0; instability: 0;
Rating:

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Streptomycin sulfat	none listed	none listed	none listed

OSHA Vacated PELs: Streptomycin sulfate: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

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

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2

Respirators: requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Color: white to off-white

Odor: mild odor - amine-like

pH: 4.5-7.0 (20% sol)

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: Not available

Decomposition Temperature: Not available

Solubility in water: Soluble in water.

Specific Gravity/Density: Not available.

Molecular Formula: C₄₂H₇₈N₁₄O₂₄H₆O₁₂S₃

Molecular Weight: 1456.8402

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid: Incompatible materials, dust generation, excess heat.

Incompatibilities with Other Materials: None reported.

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 3810-74-0: WK4990000

LD50/LC50: RTECS:
CAS# 3810-74-0: Oral, mouse: LD50 = 430 mg/kg;

Oral, rat: LD50 = 430 mg/kg;

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Carcinogenicity: Streptomycin sulfate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found

Teratogenicity: Developmental abnormalities of the eye and ear were reported in humans (TDLo - route Intramuscular: Dose: 1700mg/kg)

Reproductive: Adverse reproductive effects have occurred in experimental animals.

Neurotoxicity: Aminoglycoside antibiotics have the potential to cause auditory nerve damage and neuromuscular paralysis.

Mutagenicity: Mutation in microorganisms:

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

Section 14 - Transport Information

US DOT Shipping Name: Please contact Fisher Scientific for shipping information Hazard Class: UN Number: Packing Group: Canada TDG Shipping Name: Not available Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 3810-74-0 is listed on the TSCA Inventory.

Health & Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.

Section 12b: None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.

CERCLA

Hazardous

Substances and corresponding RQs: None of the chemicals in this material have an RQ.

SARA Section

302 Extremely

Hazardous

Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 3810-74-0: chronic.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone

depletors.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

STATE Streptomycin sulfate is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65 WARNING: This product contains Streptomycin sulfate, a chemical known to the state of California to cause birth defects or other reproductive harm.

California No

Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases:

R 61 May cause harm to the unborn child.

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

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

R 60 May impair fertility.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 3810-74-0: Not available

Canada

CAS# 3810-74-0 is listed on Canada's DSL List

Canadian WHMIS Classifications: D2A, D2B, D1B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 3810-74-0 is not listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: 7/15/1999

Revision #8 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, 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 for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
