



Material Safety Data Sheet
Antibiotic Antimycotic Solution

Print Date: 1/24/05
Revision Date: 1/20/2005
Version: 1

SV 3007901



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Potential Health Effects

- Eye:**
May cause eye irritation.
- Skin:**
May cause skin irritation. May cause an allergic reaction in certain individuals.
- Ingestion:**
May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause allergic reaction. May cause systemic effects. Penicillin may cause an allergic reaction if taken orally.
- Inhalation:**
May cause allergic respiratory reaction. May cause respiratory tract irritation. May cause systemic effects. May cause central nervous system effects. Streptomycin sulfate may cause allergic reactions in sensitive individuals.
- Chronic:**
May cause reproductive and fetal effects. Streptomycin sulfate may cause congenital malformations of the fetus.

MSDS Name:

Antibiotic Antimycotic Solution

Catalog Numbers:

SV30079

Synonyms:

None Known.

Company Identification:

Hyclone Laboratories Inc.
925 West 1800 South
Logan, UT 84321

Company Phone Number:

(435) 792-8000

Emergency Phone Number:

(435) 792-8000

CHEMTREC Phone Number, US:

(800) 424-9300

CHEMTREC Phone Number, Europe:

(202) 483-7616

Section 2: Composition, Information, Ingredients

CAS#	Chemical Name	Percent	MSDS Number
113-98-4	Penicillin G potassium	1.0	204-038-0
3810-74-0	Streptomycin sulfate	1.0	223-286-0
1397-89-3	Amphotericin B	<1.0	215-742-2
7732-18-5	Water	balance	231-791-2

EMERGENCY OVERVIEW

Appearance: faint yellow liquid

Caution! Individuals with allergies or hypersensitivity to antibiotics should take caution. May cause eye, skin, and respiratory tract irritation. May cause allergic respiratory and skin reaction. May cause central nervous system effects. May cause reproductive and fetal effects.

Target Organs: central nervous system, respiratory system, skin.

Eyes:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

Skin:

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Ingestion:

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

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:

No information found.

Explosion Limits:

Lower: Upper:

Flash Point:

No information found.



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NFPA Rating:

(estimated) Health: 1; Flammability: 0; Instability: 0

Section 7 - Hazards Identification

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide ventilation.

Section 8 - Exposure Controls, Personal Protection

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

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

Section 9 - Physical and Chemical Properties

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

Chemical Name:	ACGIH	NIOSH	OSHA
Penicillin G potassium	None listed.	None listed.	None listed.
Streptomycin sulfate	None listed.	None listed.	None listed.
Amphotericin B	None listed.	None listed.	None listed.
Water	None listed.	None listed.	None listed.

OSHA Vacated PELs

Personal Protective Equipment

Eyes:

Wear chemical splash goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.



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Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: faint yellow

Odor: No information found.

pH: No information found.

Vapor Pressure: No information found.

Vapor Density: No information found.

Evaporation Rate: No information found.

Viscosity: No information found.

Boiling Point: No information found.

Freezing/Melting Point: No information found.

Decomposition Temperature: No information found.

Solubility in water: No information found.

Specific Gravity/Density: No information found.

Molecular Formula: Solution

Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

No specific conditions to avoid noted.

Incompatibilities with Other Materials

strong oxidizing agents, acids, strong bases, alcohols, sodium hydroxide, glycerol, heavy metal salts.

Hazardous Decomposition Products

Carbon monoxide, oxides of nitrogen, carbon dioxide.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

RTECS:

CAS# 113-98-4: XH9700000.

CAS# 3810-74-0: WK4990000.

CAS# 1397-89-3: BU2625000.

CAS# 7732-18-5: ZC0110000.



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LD50/LC50:

CAS# 113-98-4:
Oral, mouse: LD50 = 6257 mg/kg
Oral, mouse: LD50 = 7.8 gm/kg
Oral, rabbit: LD50 = 5848 mg/kg
Oral, rat: LD50 = 8900 mg/kg.
CAS# 3810-74-0:
Oral, mouse: LD50 = 430 mg/kg
Oral, rat: LD50 = 430 mg/kg.
CAS# 1397-89-3:
Oral, rat: LD50 = >5 gm/kg.
CAS# 7732-18-5:
Oral, rat: LD50 = >90 mL/kg.

Carcinogenicity:

CAS# 113-98-4: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 3810-74-0: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 1397-89-3: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.
CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

No information found.

Teratogenicity:

Teratogenic effects have occurred in humans.

Reproductive:

Adverse reproductive effects have occurred in humans.

Mutagenicity

Mutagenic effects have occurred in experimental animals.

Neurotoxicity

No information found.

Other:

See actual entry in RTECS for complete information.

No information found.

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 40CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P Series Wastes

None of the components are on this list.

RCRA U Series Wastes

None of the components are on this list.



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US DOT

Canadian TDG

Proper Shipping Name: Not reviewed.
Hazard Class:
UN Number:
Packing Group:

US Federal

TSCA

CAS# 113-98-4 is listed on the TSCA Inventory.
CAS# 3810-74-0 is listed on the TSCA Inventory.
CAS# 1397-89-3 is not listed on the TSCA Inventory. It is for research and development use only.
CAS# 7732-18-5 is listed on the TSCA Inventory.

Health and Safety Reporting List

None of the components are on this list.

Chemical Test Rules

None of the components are on this list.

TSCA Section 12b

None of the components are on this list.

TSCA Significant New Use Rule (SNUR)

None of the components are on this list.

CERCLA Hazardous Substances and corresponding RQs

None of the components are on this list.

SARA Section 302 Extremely Hazardous Substances

None of the components are on this list.

SARA Hazard Categories

CAS# 113-98-4: acute, chronic.
CAS# 3810-74-0: chronic.

SARA Section 313

None of the components are on this list.

Clean Air Act - Hazardous Air Pollutants (HAPs)

None of the components are on this list.

Clean Air Act - Class 1 Ozone Depletors

None of the components are on this list.

Clean Air Act - Class 2 Ozone Depletors

None of the components are on this list.

Clean Water Act - Hazardous Substances

None of the components are on this list.



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Clean Water Act - Priority Pollutants

None of the components are on this list.

Clean Water Act - Toxic Pollutants

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

OSHA - Specifically Regulated Chemicals

None of the components are on this list.

US State

State Right to Know

California Prop 65

CAS# 113-98-4 No information found.

CAS# 3810-74-0 No information found.

CAS# 1397-89-3 No information found.

CAS# 7732-18-5 No information found.

WARNING: This product contains Streptomycin sulfate, a chemical known to the state of California to cause developmental reproductive toxicity.

California No Significant Risk Level

CAS# 113-98-4 No information found.

CAS# 3810-74-0 No information found.

CAS# 1397-89-3 No information found.

CAS# 7732-18-5 No information found.

European/International Regulations

European Labelling in Accordance with EC Directives:

Hazard Symbols:

Risk Phrases:

Safety Phrases: S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

No information found.

United Kingdom Occupational Exposure Limits

No information found.

United Kingdom Maximum Exposure Limits

No information found.

Canadian DSL/NDSL

CAS# 113-98-4 is listed on Canada's DSL List.

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

CAS# 7732-18-5 is listed on Canada's DSL List.

Canadian WHMIS Classifications

This product has a WHMIS classification of D2A, D2B.

Canadian Ingredient Disclosure List

No information found.

Exposure Limits

No information found.



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Color information has been
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This MSDS is intended for review and guidance in the receipt, storage, handling, use and disposal of product purchased from Fisher Scientific, and for no other purpose. Use this product only as directed and in accordance with applicable instructions and warnings provided with the product. Please consult your institution's policies regarding use of this product. If you have obtained this MSDS other than in connection with the supply of this product from Fisher Scientific, this MSDS should be consulted for general information only, and should not be relied upon for any purpose. As with the use of all hazardous materials, you should in all instances follow the guidance of the MSDS provided or available with the specific product purchased.