



Safety Data Sheet

Revision Date: 06-February-2018

24 Hour Emergency #: 1-800-255-3924

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: Amphotericin B/Penicillin/Streptomycin Mixture
 CATALOG NUMBER: 120-096-711
 CHEMICAL NAME: Aqueous concentrated, mixed antifungal and antibiotic solution of Amphotericin B, Penicillin G and Streptomycin.
 Penicillin G: 3,3 - Dimethyl-7-OXO-6-(2phenyl=acetamido)-4-thia-1-azabicyclo(3.2.0)) heptane-2-carboxylic acid, monosodium salt,
 Streptomycin: 0-2-Deoxy-2-(methylamino)-A-L-glucopyranosyls-1-(1-2)-0-5-Deoxy-3-C-Formyl-Alpha-L-Lyxofuranosyl(1-4)-N,N1-(Aminoiminomethyl)-0-Streptamine sulfate (2:3) salt, and
 Amphotericin B: Polyene antifungal antibiotic produced by Streptomyces nodosus. Solubilized with deoxycholate: 3 α , 12 α -Dihydroxy-5 β -cholanic acid; 17 β -(1-Methyl-3-carboxy propyl) etiocholane-3 α , 12 α -diol.

Company/Undertaking Identification

Quality Biological Inc.
 7581 Lindbergh Drive
 Gaithersburg, MD 20879
 301-840-9331

2. HAZARDS IDENTIFICATION

GHS – Classification

Classification Skin Sensitizer 2 Respiratory Sensitizer 1 Skin Irritant 2 Eye Irritant 2A Reproductive toxicity 2
 Signal Word Danger



Hazard Statements

H317 - May cause an allergic skin reaction H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation

Precautionary Statements

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338



Amphotericin B/Penicillin/Streptomycin Mixture

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | EC No. | CAS-No | Weight % | Classification |
|--|------------------|------------------|----------------|----------------|
| Streptomycin sulfate | 223-286-0 | 3810-74-0 | 1-2 | |
| 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-[(phenylacetyl)amino]-[2-(2.alpha.,5.alpha.,6.beta.)]-, monosodium salt | 200-710-2 | 69-57-8 | 0.1-1.0 | - |
| Amphotericin B | 215-742-2 | 1397-89-3 | <1% | |

4. FIRST AID MEASURES

Skin contact

Immediately wash skin with copious amounts of water followed by washing with soap and copious amounts of water. Remove all contaminated clothing.

Eye contact

Flush eyes with copious amounts of water for at least 15 minutes with eyelids separated and call a physician.

Ingestion

Never give anything by mouth to an unconscious person

Inhalation

If person is unconscious seek emergency medical attention, if person is conscious remove to fresh air and call a physician

Notes to physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

General: Wear Self-Contained breathing apparatus in pressure demand, MSHA/NIOSH approved. During a fire, irritating and toxic gases may be generated by thermal decomposition.

Extinguishing Media: Use extinguishing media appropriate to surrounding fire conditions.

Autoignition Temperature: N/A

Explosion limits: Not sensitive.

Flash Point: Not flammable.

6. ACCIDENTAL RELEASE MEASURES

Use Personal Protective Equipment: Including Chemical Splash Goggles, Chemical Resistant Gloves, and appropriate clothing to prevent skin exposure. In addition, a Respiratory protection program that complies with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Spills and Leaks: Absorb spill with inert material (e.g. Vermiculite, sand, earth) then place in a suitable container. Clean up spills immediately, observing precautions in the Sections 6 and 8. Provide ventilation.

7. HANDLING AND STORAGE

7581 Lindbergh Drive • Gaithersburg, MD 20879

(301) 840-9331 • Toll Free (800) 443-9331 • Fax (301) 840-0743

Email: customerservice@qualitybiological.com • Web Site: www.qualitybiological.com



**Handling
Storage**

Handle in accordance with good industrial hygiene and safety practice.
Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

Exposure limits

Engineering measures Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment
Hand protection Protective gloves
Eye protection Safety glasses with side-shields
Skin and body protection Lightweight protective clothing.
Hygiene measures Handle in accordance with good industrial hygiene and safety practice
Environmental exposure Controls Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form Liquid

Important Health Safety and Environmental Information

| | | |
|---------------------------------|--------------------------|----------------------|
| Boiling point/range | °C No data available | °F No data available |
| Melting point/range | °C No data available | °F No data available |
| Flash point | °C No data available | °F No data available |
| Autoignition temperature | °C No data available | °F No data available |
| Oxidizing properties | No information available | |
| Water solubility | No data available | |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Stability | Stable under recommended storage conditions. |
| Materials to avoid | No information available |
| Hazardous decomposition products | Nitrogen oxides (NOx). Sulfur oxides. Carbon oxides. |
| Polymerization | Hazardous polymerisation does not occur. |
| Incompatible Products | Strong oxidizing agents. Bases. |

11. TOXICOLOGICAL INFORMATION



Acute toxicity

Irritating to eye, skin and respiratory system. May be harmful if swallowed.

Principle Routes of Exposure/ Potential Health effects

| | |
|-------------------|--------------------------|
| Eyes | No information available |
| Skin | No information available |
| Inhalation | No information available |
| Ingestion | No information available |

Specific effects

| | |
|------------------------------|--------------------------|
| Carcinogenic effects | No information available |
| Mutagenic effects | No information available |
| Reproductive toxicity | No information available |
| Sensitization | No information available |

Target Organ Effects

None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and Degradability

No information available.

Bioaccumulation/Accumulation

No information available.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

IATA

| | |
|-----------------------------|---|
| Proper shipping name | Not classified as dangerous in the meaning of transport regulations |
| Hazard Class | No information available |
| Subsidiary Class | No information available |
| Packing group | No information available |
| UN-No | No information available |

15. REGULATORY INFORMATION

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International Inventories

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

| Chemical Name | California Prop. 65 |
|----------------------------------|----------------------------|
| Streptomycin sulfate - 3810-74-0 | Developmental |

16. OTHER INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT; HOWEVER, IT MAY NOT BE ALL INCLUSIVE. THIS INFORMATION SHOULD BE USED ONLY AS A GUIDE. QUALITY BIOLOGICAL, INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM THE HANDLING OR CONTACT WITH THE ABOVE PRODUCT.

End of Safety Data Sheet