



**Hangzhou Tianlong Biotechnology Co., Ltd.**

**Add: Room 1906, Fengqi Times Tower, No.338, Fengqi East Road, Hangzhou, Zhejiang, China.**

## MATERIAL SAFETY DATA SHEET

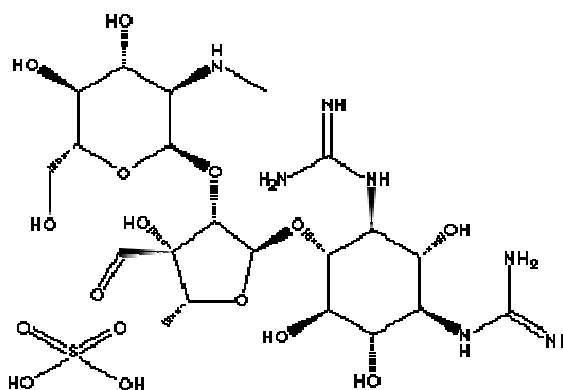
### 1. Chemical Product and company Identification

Product Name: Streptomycin sulphate

Molecular Formula:  $(C_{21}H_{39}N_7O_{12})_2 (H_2SO_4)_3$

Molecular Weight: 1457.38

Structural Formula:



Chemical Name: agristrep D-Streptamine, O-2-deoxy-2-(methylamino)-.alpha.-L-glucopyranosyl-(1 to 2)-O-5-deoxy-3-C-formyl-.alpha.-L-lyxofuranosyl-(1 to 4)-N,N'-bis(aminoiminomethyl)-, sulfate (2:3) (salt)

CAS No.: 3810-74-0

Supplier: HANZHOU TIANLONG BIOTECHNOLOGY CO., LTD

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### 2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Streptomycin sulphate	3810-74-0	85.0
Others ingredients		15.0

### 3. Hazards Summarizing

Route of entry: Inhalation and swallow.

Physical/chemical hazards: Toxic by inhalation and if swallowed. Streptomycin sulphate may cause reversible and irreversible vestibular, cochlear and renal toxicity. Renal damages and nerve deafness. Target organs kidneys and ears.

Symptoms of Acute Exposure: May include moderate to severe erythema (redness) and moderate oedema (raised skin), nausea, vomiting, headache, swelling around the eyes.

Skin contact will cause irritation. Eye contact will cause slight eye irritation.

#### **4. First Aid Measures**

Skin: Remove contaminated clothes. Rinse and then wash skin with plenty of water immediately.

Eyes: Rinse eyes immediately with clean water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Ingestion: If swallowed induce vomiting by tickling the back of throat. Be quiet and call a physician

Notes to physician: No specific antidote if ingested. Treat symptomatically.

#### **5. Fire-Fighting Measures**

Extinguishing media

To be used: Powder, water spray, carbon dioxide.

Don't use: Not applicable

Hazardous thermal decomposition and combustion products: Could cause fire in high fire in high temperatures. When heated to decomposition material emit toxic fumes (NO<sub>x</sub> and SO<sub>x</sub>).

Measures of personal protection: Safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

#### **6. Accidental Release Measures**

Personal protection: Safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

Personal precautions: Avoid contact with skin and eyes. Do not swallow. Do not breathe dust.

#### **7. Handling and Storage**

Handling: Handle the pesticide with gloves and wash the hand after handling. Do not apply to humans, their clothing, or bedding. Do not contaminate food or use on household tanks.

Storage: Store at 2-8°C, away from children, domestic animals, food and feed products, seed and fertilizer. Do not contaminate other stored products or the storage area by handling or storage of this product. Keep in a well-ventilated room.

#### **8. Exposure Controls / Personal Protection**

Engineering measures: safety shower and eye bath. Mechanical exhaust required.

Hygienic measures: Do not eat, drink and/or smoke during work. Wash after handling.

Personal protective equipment

Respiratory protection: Approved respirator

Protective gloves: Rubber gloves

Eye protection: Safety goggles or face shield

## 9. Physical and Chemical Properties

Appearance: white or off-white powder.

Melting point: Not available

Density: 0.4-0.6g/l (bulk density)

Vapour Pressure: 1.3 mPa at 25°C.

Solubility: Soluble in water >0.1g/L at 18°C. Practically insoluble in ethanol, chloroform and ether.

PH value: 4.5~7.0;

## 10. Stability and Reactivity

Chemical Stability: Stable in dry air. Very hygroscopic; absorbs moisture from air.

Incompatibility with other substances: Can react violently with strong oxidizing agents. Cakes on exposure to moisture.

Reactivity: Avoid excessive heat, ignition sources, incompatible materials, moisture. Avoid generation of dust.

Hazardous Decomposition Products: NO<sub>x</sub>, SO<sub>x</sub>

## 11. Toxicological Information

Acute toxicity:

Acute oral LD<sub>50</sub> (rat): 430mg/kg

Acute oral LD<sub>50</sub> (mouse): 430mg/kg

Acute oral LD<sub>50</sub> (hamster): 400mg/kg

Intravenous LD<sub>50</sub> (mouse): 90mg/kg

Subcutaneous: LD<sub>50</sub> (rat): 600mg/kg; LD<sub>50</sub> (mouse): 403mg/kg

Inhalation: Harmful

Skin irritation: Slight eye irritation

Sensitization: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Carcinogenicity: Not considered carcinogenic.

Teratogenicity: Effects, including fetal death, on embryo in animal testing. No human information available. Reproductive Effects: May cause reproductive effects

Mutagenicity: Has caused mutagenic effects in microorganisms

## 12. Ecological Information

Mobility: Slightly water-soluble

Persistence and degradability: Not known if swallowed

Bioaccumulative potential: Not known

Ecotoxicity: Not known

## 13. Disposal Considerations

Disposal must be in accordance with applicable local regulations. Remove nonusable solid materials and/or contaminated soil for disposal in an

approved and permitted landfill. Do not flush into surface water or sanitary sewer systems.

Spillage disposal: Do not wash away into sewer. Do not let this chemical enter the environment. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.

#### **14. Transport Information**

Class: N/A

UN No.: N/A

Packing group N/A

Non-hazardous for road transport

#### **15. Regulatory Information**

Safety Phrases: Keep out of reach of children

Keep away from food, drink and animal feeding stuff

Do not breathe spray

When using do not eat, drink or smoke

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

In case of accident or if you feel unwell, seek medical advice immediately (Show the label where possible)

Use appropriate containment to avoid environmental contamination

#### **16. Other Information**

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.