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|-----------------------------------|-------------------|-------------------------------------|------------|
| <b>Streptomycin Sulfate</b>       |                   |                                     |            |
| Safety Data Sheet (SDS)           |                   | <b>SP-CN-S041</b>                   |            |
| <b>Issued by: Quality Control</b> | Rev:<br><b>00</b> | Effective Date:<br><b>29-May-20</b> | Pg. 1 of 9 |

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## 1. Identification

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**Production Name:** Streptomycin Sulfate

**Catalog Number:** S041

**Company:** Caisson Laboratories

**Address:** 836 South 100 East, Smithfield UT 84335

**Telephone:** 435.755.7615

**Fax:** 435.755.7617

**Emergency Contact:** CHEMTREC 800.424.9300 (703.527.3887)

**Recommended Use:** For research and laboratory use only.

**Restrictions on Use:** This product is intended for research and laboratory use only. This product is not to be used as human or animal therapeutics, cosmetics, pesticidal products, food additives, or as household chemicals.

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## 2. Hazard(s) Identification

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### Classification of the Substance or Mixture

**GHS Classification:**

H302 – Acute toxicity, oral (Category 4)

H361 – Reproductive toxicity (Category 2)

### GHS Label Elements, Including Precautionary Statements

**Signal Word:** Warning

**Hazard Statements:**

H302 – Harmful if swallowed

H361 – Suspected of damaging fertility or the unborn child

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**Precautionary Statements:**

P201 – Obtain special instructions before use.

P202 – Do not handle until all safety precautions have been read and understood.

P264 – Wash hands thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

P281 – Use personal protective equipment as required.

P330 – Rinse mouth.

P301+P312– IF SWALLOWED: call a POISON CENTER or doctor if you feel unwell.

P308+P313 – IF exposed or concerned: Get medical advice/attention.

P405 – Store locked up.

P501 – Dispose of contents/container to appropriate waste containers.

**Pictograms:**




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### ***3. Composition/Information on Ingredients***

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**Synonyms:** Streptomycin A Sulfate, Plantomycin

**Formula:** C<sub>42</sub>H<sub>84</sub>N<sub>14</sub>O<sub>36</sub>

**Molecular Weight:** 1457.41 g/mol

**CAS-No:** 3810-74-0

**EC-No:** 223-286-0

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

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**General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### **Route of Exposure**

**If Swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

**In Case of Skin Contact:** Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.

**In Case of Eye Contact:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. Get medical attention.

**If Inhaled:** Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.

**Most Important Symptoms and Effects, Both Acute and Delayed:** The most important known symptoms and effects are described in the labelling (see section 2 – Hazards Identification) and/or in section 11 – Toxicological Information.

**Recommendation for Immediate Medical Care and Special Treatment Needed:** No Data Available

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

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**Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Protective Equipment and Precautions for Fire-Fighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Special Hazards Arising from the Substance or Mixture:** Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides

**Additional Information:** No Data Available



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

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**Personal Precautions, Protective Equipment and Emergency Procedures:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and Material for Containment and Cleanup:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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

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**Precautions for Safe Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

**Conditions for Safe Storage:** Keep container tightly closed in a dry and well-ventilated place.

**Recommended Storage Temperature:** 2 to 8 °C

**Incompatibilities:** Strong oxidizing agents

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

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**OSHA Permissible Exposure Limits (PELs):** Contains no substances with occupational exposure limit values.

**ACGIH Threshold Limit Values (TLVs):** Contains no substances with occupational exposure limit values.

**Engineering controls:** Practice general industrial hygiene practice. Ensure adequate ventilation, especially in confined areas.



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**Personal Protective Equipment (PPE):**

**Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards.

**Skin Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Body protection:** Wear lab coat, gown, or coveralls to protect from exposure.

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## ***9. Physical and Chemical Properties***

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**Appearance:** White to Off-White Powder

**pH:** 4.5 – 7.0 (20%, H<sub>2</sub>O)

**Solubility:** Soluble in Water

**Specific Gravity:** No Data Available

**Melting Range:** No Data Available

**Odor:** No Data Available

**Odor Threshold:** No Data Available

**Viscosity:** No Data Available

**Relative Density:** No Data Available

**Evaporation Rate:** No Data Available

**Initial Boiling Point and Boiling Range:** No Data Available

**Flash Point:** No Data Available



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**Flammability (Solid, gas):** No Data Available

**Flammability Upper/Lower Limits:** No Data Available

**Partition Coefficient:** No Data Available

**Vapor Density:** No Data Available

**Vapor Pressure:** No Data Available

**Auto-ignition Temperature:** No Data Available

**Decomposition Temperature:** No Data Available

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## ***10. Stability and Reactivity***

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**Reactivity:** No Data Available

**Chemical Stability:** Stable under recommended storage conditions.

**Possibilities of Hazardous Reactions:** No Data Available

**Conditions to Avoid:** No Data Available

**Incompatible Materials:** Strong oxidizing agents

**Hazardous Decomposition Productions:** Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides

In the event of fire: see section 5

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## ***11. Toxicological Information:***

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**Toxicity:** LD50 Oral - Rat - 430 mg/kg

**Carcinogenicity:**

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.



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**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity:** No Data Available

**Symptoms Associated with Overexposure:** No Data Available

**Specific Target Organ Toxicity – Single Exposure:** No Data Available

**Specific Target Organ Toxicity – Repeated Exposure:** No Data Available

**Target Organs:** None Identified

**Medical Conditions Aggravated by Exposure:** None Identified

**Routes of Entry:** No Data Available

**NIOSH/RTECS:** WK4990000

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## ***12. Ecological Information***

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**Toxicity:** Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - > 180 mg/l - 96 h  
Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 650 mg/l - 48 h

**Persistence and Degradability:** No Data Available

**Bioaccumulative Potential:** No Data Available

**Mobility in Soil:** No Data Available

**Results of PBT and vPvB:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**Other Adverse Effects:** No Data Available



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### ***13. Disposal Considerations***

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**Disposal of Product:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Disposal of Packaging:** Dispose of as unused product.

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

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**DOT (US):**

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

UN/NA number: N/A    Class: N/A    Packaging group: N/A    Hazard Label: N/A

Reportable Quantity (RQ): N/A

Poison Inhalation Hazard: N/A

**IMDG:**

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

UN number: N/A    Class: N/A    Packaging group: N/A    Hazard Label: N/A

**IATA:**

Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)

UN Number: N/A    Class: N/A    Packaging group: N/A    Hazard Label: N/A

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

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**TSCA:** Listed



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**SARA Title III:**

**Section 302 (EHS) Ingredients:** No

**Section 313 Ingredients:** No

**Section 304 (EHS/CERCLA) Ingredients:** No

**Section 311/312 Hazard:** Acute Health Hazard, Chronic Health Hazard

## **16. Other Information**

**HMIS Rating**

**Health Hazard:** 2

**Chronic Health Hazard:** 0

**Flammability:** 0

**Physical Hazard:** 0

**NFPA Rating**

**Health Hazard:** 2

**Fire Hazard:** 0

**Reactivity:** 0

**Special Hazard:** -

**Further Information:** All chemicals may pose unknown hazards and should be used with caution. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Caisson Laboratories, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

**SP-CN-S041** Revision Change Summary:

| Rev. | Date      | CR#  | Approved  | Change description |
|------|-----------|------|-----------|--------------------|
| 00   | 29-May-20 | 3371 | E. Welker | New Document       |

|   |            |
|---|------------|
| Approved By: Eric Welker and Weston Christensen | SP-CN-S041 |
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