

SAFETY DATA SHEET


Version 4.6
Revision Date 06/27/2014
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Store locked up.
Dispose of contents/ container to an approved waste disposal plant.

1. PRODUCT AND COMPANY IDENTIFICATION

- 1.1 **Product identifiers**
 - Product name : **Streptomycin sulfate salt**
 - Product Number : S6501
 - Brand : Sigma-Aldrich
 - CAS-No. : 3810-74-0
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**
 - Identified uses : Laboratory chemicals, Manufacture of substances
- 1.3 **Details of the supplier of the safety data sheet**
 - Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA
 - Telephone : +1 800-325-5832
 - Fax : +1 800-325-5052
 - Emergency telephone number : (314) 776-6555
- 1.4 **Emergency Phone #** : (314) 776-6555

2. HAZARDS IDENTIFICATION

- 2.1 **Classification of the substance or mixture**
 - GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute toxicity, Oral (Category 4), H302
Reproductive toxicity (Category 2), H361
 - For the full text of the H-Statements mentioned in this Section, see Section 16.
- 2.2 **GHS Label elements, including precautionary statements**
 - Pictogram 
 - Signal word : **Warning**
 - Hazard statement(s)
 - H302 Harmful if swallowed.
 - H361 Suspected of damaging fertility or the unborn child.
 - Precautionary statement(s)
 - P201 Obtain special instructions before use.
 - P202 Do not handle until all safety precautions have been read and understood.
 - P264 Wash skin thoroughly after handling.
 - P270 Do not eat, drink or smoke when using this product.
 - P281 Use personal protective equipment as required.
 - P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
 - P308 + P313 IF exposed or concerned: Get medical advice/ attention. Rinse mouth.

- 2.3 **Hazards not otherwise classified (HNOC) or not covered by GHS**
 - P405 Store locked up.
 - P501 Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 **Substances**
 - Formula : C₂₁H₃₉N₇O₁₂ · 15H₂O₄S
 - Molecular Weight : 728.69 g/mol
 - CAS No. : 3810-74-0
 - EC-No. : 223-286-0

Hazardous components

Component	Classification	Concentration
Streptomycin sulphate	Acute Tox. 4; Repr. 2; H302, H361	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

- 4.1 **Description of first aid measures**
 - General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
 - Inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
 - In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
 - In case of eye contact
Flush eyes with water as a precaution.
 - If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
 - Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
 - 4.3 **Indication of any immediate medical attention and special treatment needed**
no data available

5. FIREFIGHTING MEASURES

- 5.1 **Extinguishing media**
 - Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 **Special hazards arising from the substance or mixture**
 - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides
- 5.3 **Advice for firefighters**
 - Wear self contained breathing apparatus for fire fighting if necessary.
- 5.4 **Further information**
 - no data available

6. ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures**
 - Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 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 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2 - 8 °C

Keep in a dry place.

7.3 Specific end uses(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) 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.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrif® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrif® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Erchenzell, phone +49 (0)6859 87300 e-mail sales@kcl.de test method: EN374

if used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an

industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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).

Control of environmental exposure

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Form: powder
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	no data available
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available
9.2 Other safety information	no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

no data available

- 10.2 **Chemical stability**
Stable under recommended storage conditions.
- 10.3 **Possibility of hazardous reactions**
no data available
- 10.4 **Conditions to avoid**
no data available
- 10.5 **Incompatible materials**
Strong oxidizing agents
- 10.6 **Hazardous decomposition products**
Other decomposition products - no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

- Acute toxicity**
LD50 Oral - rat - 430 mg/kg
- Inhalation: no data available
- Dermal: no data available
- no data available
- Skin corrosion/irritation**
no data available
- Serious eye damage/eye irritation**
no data available
- Respiratory or skin sensitisation**
Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
- Germ cell mutagenicity**
no data available
- Carcinogenicity**
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.
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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.
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**
Suspected human reproductive toxicant
no data available
- Specific target organ toxicity - single exposure**
no data available
- Specific target organ toxicity - repeated exposure**
no data available
- Aspiration hazard**
no data available

Additional information
RT ECS: WK4990000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Liver - Irregularities - Based on Human Evidence
Liver - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

- 12.1 **Toxicity**
Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - > 180 mg/l - 96 h
Toxicity to daphnia and other aquatic EC50 - Daphnia magna (Water flea) - 650 mg/l - 48 h
invertebrates
- 12.2 **Persistence and degradability**
no data available
- 12.3 **Bioaccumulative potential**
no data available
- 12.4 **Mobility in soil**
no data available
- 12.5 **Results of PBT and vPvB assessment**
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
- 12.6 **Other adverse effects**
no data available

13. DISPOSAL CONSIDERATIONS

- 13.1 **Waste treatment methods**
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.
Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

- DOT (US)**
Not dangerous goods
- IMDG**
Not dangerous goods
- IATA**
Not dangerous goods

15. REGULATORY INFORMATION

- SARA 302 Components**
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
- SARA 313 Components**
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- SARA 311/312 Hazards**
Acute Health Hazard, Chronic Health Hazard
- Massachusetts Right To Know Components**
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components			
Streptomycin sulphate	CAS-No. 3810-74-0	Revision Date 2009-07-17	
New Jersey Right To Know Components			
Streptomycin sulphate	CAS-No. 3810-74-0	Revision Date 2009-07-17	
California Prop. 65 Components			
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.	CAS-No. 3810-74-0	Revision Date 2007-09-28	
Streptomycin sulphate			

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Acute toxicity
H302 Harmful if swallowed.
H361 Suspected of damaging fertility or the unborn child.
Repr. Reproductive toxicity

HMS Rating
Health hazard: 2
Chronic Health Hazard: *
Flammability: 0
Physical Hazard 0

NFPA Rating
Health hazard: 2
Fire Hazard: 0
Reactivity Hazard: 0

Further information

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Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

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