

Safety Data Sheet: Key Strepto

1. IDENTIFICATION

Product Name: Key Strepto
Other Names: Streptomycin
Recommended Use: Bactericide
Distributor: Key Industries Ltd
Address: P. O. Box 65070, Mairangi Bay, Auckland 0754
Telephone: 09 917 1791
Emergency Phone: 027 4941659
National Poisons Centre: 0800 764 766

2. HAZARDS IDENTIFICATION

Hazard Classification: 6.1D, 6.4A, 6.5B, 6.9B, 9.1A, 9.3C
Hazards: Toxic if inhaled
 Harmful if swallowed
 Causes mild eye irritation
 Moderately toxic via skin contact
 Causes damage to organs through prolonged or repeated exposure.
 Avoid contamination of any water supply with product or empty container.

3. COMPOSITION: INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Concentration (%w/w)
Streptomycin Sulphate	3810-74-0	15-20
Surfactant secret		<10
Inert fillers secret		70-80

4. FIRST AID MEASURES

Consult the National Poisons Information Centre 0800 POISON (0800 764 766) or a doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur seek medical attention immediately.

Swallowed

If swallowed more than 15 minutes away from a hospital, and victim is conscious, induce vomiting, preferably using Ipecac syrup APF. Then give a glass of water and seek immediate medical attention. If swallowed and victim is unconscious or convulsing, keep victim warm and seek immediate medical attention.

Skin Contact

Remove contaminated clothing and wash affected areas with soap and water for 15 minutes. Seek medical attention if irritation persists. Remove contaminated clothing and launder thoroughly before re-use. Inhaled: Remove patient to fresh air, lay down, keep warm and at rest. If breathing is shallow, irregular or has stopped, give artificial respiration or oxygen if available. Seek immediate medical attention.

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Eye Contact

Act quickly to copiously irrigate eyes with clean fresh water for 15 minutes, holding the eyelids apart. Ensure irrigation under eyelids by occasionally lifting eyelids. Do not attempt to remove contact lenses unless trained. Seek immediate medical attention.

Inhalation

Move the victim to fresh air immediately, lay down, keep warm and at rest. If breathing is shallow, irregular or has stopped, give artificial respiration or oxygen if available. Seek immediate medical attention.

First Aid facilities

Provide eye baths and safety showers close to areas where exposure may occur.

Medical Attention

In all cases consult the National Poisons Centre for the most up to date treatment information.

Advice to doctor: Treat symptomatically. Aminoglycoside antibiotic. Note that this product is classified as a sensitiser.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media

Extinguish with water spray, carbon dioxide, dry chemical or foam, as appropriate to surrounding fire and materials. Do not allow contaminated run-off to enter drains. Self-contained breathing apparatus required.

Hazardous decomposition/combustion products

There is no explosion hazard from this product under normal circumstances. It is unlikely to support combustion even if involved in a fire. Decomposition products – carbon dioxide, carbon monoxide, oxides of nitrogen and sulphur. This product will not polymerise.

Precautions for fire fighters and special protective equipment

As with all fires, evacuate all personnel to safe area. Fire fighters should wear self-contained breathing equipment and protective clothing.

Other information

Heat produces very toxic and corrosive vapours. Heat may cause violent rupture of containers. As with all dry powders, it is advisable to ground all mechanical equipment, to dissipate the potential build up of static electricity. Toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES:

Small Spills

Wear appropriate protective clothing whilst cleaning up small spills (see Personal Protection). Avoid creating dusts. Do not allow product or washings into drains or water course. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers if possible. Wash area with water. Cover remainder with absorbent material sand, sawdust or similar material, shovel up and dispose of in an area approved by local authority by-laws. Clean up minor spills immediately.

Methods and materials for containment for a major spill

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Eliminate sources of ignition. Warn occupants of downwind areas of possible hazards. Keep the public away from the area. Prevent product from entering sewers, watercourses, or low-lying areas. Shut off the source of the spill if safe to do so. Advise relevant authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation. Collect and seal in properly labelled containers for disposal. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

Waste Disposal Method

Contaminated absorbent and wash water should be disposed of according to local regulations under the Resource management Act. Avoid contamination of any water supply with chemical or empty container.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear chemically impervious gloves. Wear approved safety glasses, goggles, or a full-face shield. Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a respirator is not normally required when handling this product, but recommended in the absence of proper mechanical ventilation. Do not contaminate water, feed, or food by storage, handling, or disposal. Read and observe all precautions and instructions on the label. Avoid contact with food, clothing, drugs or other household goods during transportation.

Conditions for safe storage

Store containers upright and closed. Store in a cool, dry place away from direct sunlight and in well-ventilated areas. Keep away from heat, ignition sources and strong oxidizers. Emptied containers may retain product residues.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

A time weighted average (TWA) concentration for an 8 hour day, 5 day week has not been established for this product. In Australia, there is a blanket limit (TLV) of 10 mg/m³ for dusts or mists, when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use.

Engineering Controls

Control airborne concentrations below the exposure guideline. Good general ventilation should be sufficient for most conditions.

Hygiene Controls

Facilities storing or utilising this material should be equipped with an eyewash facility, safety shower and facility for washing hands/face after work.

Personal Protective Equipment

Respiratory Protection

Wear an approved organic vapor respirator in absence of proper mechanical ventilation.

Eye Protection

Wear approved safety glasses, goggles, or a full-face shield.

Skin/Body Protection

DO NOT SMOKE, EAT, DRINK OR APPLY COSMETICS IN WORK AREA! Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Free flowing cream/light brown powder
Physical State	Powder
Boiling Point	Decomposes
Melting Point	Decomposes
Flash Point	Not applicable
Flammable Limits	LFL: Not applicable UFL: Not applicable
Specific Gravity @ 20°C:	No information available
Vapour Pressure	No information available
Solubility in Water	Partly soluble (ai very soluble)

10. STABILITY AND REACTIVITY

Chemical Stability

Stable at room temperature and pressure

Hazardous decomposition products

Not applicable

Specific Materials to Avoid

Strong acids, strong alkali, strong oxidizing agents

Hazardous Polymerisation

Not know to occur

11. TOXICOLOGICAL INFORMATION

This product is an aminoglycoside antibiotic.

Acute Effects

Ingestion: The product is moderately toxic by ingestion and may cause nausea, vomiting and diarrhoea.

Eye Contact: May cause moderate irritation to the eye.

Skin Contact: The product is moderately toxic via skin contact. Repeated or prolonged contact with skin may lead to allergic contact dermatitis, or anaphylactic reactions.

Inhalation: May cause irritation to the respiratory system, coughing and chest discomfort.

Primary route of exposure is inhalation, skin and eye contact.

Chronic Effects

This product is an amino glycoside antibiotic. Classified as a sensitiser. No specific data is available for the product for chronic exposure symptoms. Exposure to a sensitiser, once sensitisation has occurred, may manifest as a skin rash or inflammation or as an asthmatic condition. In some individuals this reaction can be extremely severe. Persons developing hypersensitivity (anaphylactic) reactions must receive immediate medical attention. Individuals hypersensitive to one amino glycoside antibiotic may also be hypersensitive to other amino glycoside. Prolonged and/or repeated skin contact may lead to irritant contact dermatitis, plus nose and throat irritation. Materials used in this product are not considered carcinogenic.

Toxicological Information

Acute oral LD50 rats 9000mg/kg.

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Do not discharge the product into public watercourses, sewer, ground etc. This product is highly toxic to the environment, with the potential to result in irreparable and irreversible effects. No specific ecological data available on this product.

13. DISPOSAL CONSIDERATIONS

Product Disposal

This product should be disposed of according to local regulations. When disposing of waste or surplus avoid contact with eyes and skin. Wear impervious gloves/clothing and chemical safety goggles. Do not wash into drains. Do not mix with other waste materials.

14. TRANSPORT INFORMATION

Avoid contact with food, clothing, drugs or other household goods during transport.
Not considered hazardous for transportation under NZS5433:2007 TRANSPORTATION OF DANGEROUS GOODS ON LAND.

Hazchem Code: 2VE

15. REGULATORY INFORMATION

ACVM Approval Number:	P1369
ERMA Approval Number:	HSR000783
HSNO Classifications:	6.1D Acute Toxicity (Oral) 6.1D Acute Toxicity (Dermal) 6.4A Eye Irritant 6.5B Sensitiser (Contact) 6.9B Target Organ Toxicant 9.1A Aquatic Ecotoxicant 9.3B Ecotoxicant: Terrestrial Vertebrate
HSNO Controls:	Not applicable

16. OTHER INFORMATION

Reasons for Issue:

Update format and content to comply with legislation.

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the suppliers knowledge. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Key Industries Limited.

EMERGENCY PHONE: KEY INDUSTRIES LTD (Frank Visser, Managing Director): 0274 941 659

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PO Box 65 070 Mairangi Bay, Auckland 0754, New Zealand
T: +64 9 917 1790 | F: +64 9 917 1793 |
www.keyindustries.co.nz

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