

## Safety Data Sheet: KeyStrepto

### 1. IDENTIFICATION

**Product Name:** KeyStrepto  
**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:** 0800 CHEMCALL (0800 243 622) 24 hours  
**National Poisons Centre:** 0800 POISON (0800 764 766)

### 2. HAZARDS IDENTIFICATION

**Hazardous substance according to the HSNO Act 1996 Hazardous Substances (Hazard Classification) Notice 2020.**

**Approval:** HSR000783; Wettable powder containing 170 g/kg streptomycin as the sulfate salt

**Hazard Classifications:** Acute dermal toxicity Category 4, Eye irritation Category 2, Skin sensitisation Category 1, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment acute Category 1.

**Pictograms:**



**Signal word:** WARNING

**Hazard statements:** Harmful in contact with skin.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause damage to organs through prolonged or repeated exposure.  
Very toxic to aquatic life.  
Harmful to terrestrial vertebrates.

**Precautionary statements:**

**Prevention:** Keep out of reach of children.  
Read label before use.  
Avoid breathing dust/mist/spray.  
Contaminated work clothing should not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves and eye/face protection.

**Response:** If medical advice is needed, have product container or label at hand.  
Get medical advice if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water.

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If skin irritation or rash occurs: Get medical advice.  
Wash contaminated clothing before reuse.  
IF ON EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice.  
Collect spillage.

**Storage:**

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**Disposal:**

Dispose of product and container in accordance with local regulations.

**Other information:**

*Hazardous Substance (Labelling) Notice 2020*

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Do not apply directly into or onto water.

*NZS5433 Transportation of Dangerous Goods on Land*

Classified as DG Class 9 for transport.

### 3. COMPOSITION: INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (%w/w)
Streptomycin *	57-92-1	17
Surfactant	Proprietary	<5
Fillers	Proprietary	Balance

\* Present as the sulphate salt (CAS No 3810-74-0)

### 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. Have product label or Safety Data Sheet at hand.

**INGESTION:** Rinse mouth. Get medical advice if person feels unwell.

If vomiting occurs spontaneously, keep head below hips to prevent vomit entering lungs.

**SKIN CONTACT:** Wash affected area with soap and water. If irritation or rash develops, obtain medical advice.

**EYE CONTACT:** Flush with running water for at least 15 minutes. Remove contact lenses if present, and easy to do after 5 minutes before continuing rinsing. If irritation develops, obtain medical assistance.

**INHALATION:** Remove patient to fresh air and keep at rest until recovered. Get medical advice if person feels unwell.

**First Aid facilities:**

Provide eye baths and safety showers close to work areas.

**Advice to Doctor:**

Treat symptomatically.

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### 5. FIRE FIGHTING MEASURES

**Flashpoint:** Non-flammable.

**Suitable extinguishing media:** Water fog, fine water spray, carbon dioxide, dry chemical, foam as appropriate to surrounding materials.

**Hazards from combustion products:** Generates oxides of carbon, nitrogen and sulfur and smoke.

**Precautions for fire fighters and special protective equipment:** Self-contained breathing apparatus with full face-piece and protective clothing. Cool fire exposed containers with water spray. Heat may cause violent rupture of containers. Advisable to ground all mechanical equipment to dissipate the potential for build up of static electricity.

**Hazchem Code:** 2Z

### 6. ACCIDENTAL RELEASE MEASURES:

#### Personal Precautions:

Read label before use. Do not eat, drink or smoke when using product. Wear appropriate personal protection equipment to prevent exposure by inhalation, and to skin and eyes. Ensure adequate ventilation. Wear approved respirator where mist or dust of unknown concentration may be generated. Self-contained breathing apparatus is recommended.

#### Environmental Precautions:

Contain spillage and prevent from entering drains, sewer or any water course. In event of spillage contaminating a water-course, notify the Police, local Health Protection Officer and Council.

#### Methods and materials for containment

Sweep or shovel solid material into containers that can be closed. Avoid generating dust. For liquid spills, absorb with inert material such as soil, sand, vermiculate. Wash area with water and soak up with sand, earth, sawdust or vermiculite and transfer liquid and solids to labelled containers for disposal to approved landfill. Clean up and report spills immediately.

### 7. HANDLING AND STORAGE

#### Precautions for Safe Handling:

Wear chemically impervious gloves and long-sleeved clothing. Wear approved safety glasses or goggles. Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a respirator is not normally required when handling this product, but is recommended in the absence of proper mechanical ventilation.

Changing out of work clothing and showering recommended at the end of each work shift. Wash work clothes separately from other household clothing.

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, medicines or other household goods during transportation.

#### Conditions for Safe Storage:

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Store containers upright and closed in original container. Store in a cool, dry place away from direct sunlight and in well-ventilated areas. Storage must be in accordance with the current version of the New Zealand Standard for the Management of Agrichemicals (NZS8409). Stores containing more than 100 kg of KeyStrepto require signage, secondary containment and an emergency response plan.

Do not store with explosives, oxidizers and flammable gases and solids. Store apart from animal and human foodstuffs.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Health Exposure Standards:** Workplace Exposure Standards (WES), have not been set by Worksafe for compounds in this substance:

**Biological limit values:** None established

### Engineering Controls:

**Ventilation:** Use outdoors or in a well-ventilated area.

### Personal Protective Equipment:

**Respiratory Protection:** Respiratory protection may be necessary under certain use conditions. Under such conditions, an approved respirator or disposable face mask according to local standards, must be worn.

**Eye Protection:** Wear safety goggles or face shield.

**Skin/ Body Protection:** Wear chemical resistant elbow length gloves (rubber, neoprene, nitrile or equivalent), waterproof boots, protective clothing, e.g. overalls with long sleeves buttoned at neck and wrist, long pants).

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Free flowing, cream/light brown powder
Odour	Not specified
Odour threshold	Not determined
pH	Not determined
Melting/Freezing point °C	Not determined
Boiling Point/Range °C	Not determined
Flash Point °C	Not applicable
Flammability (solid, gas)	Not determined
Upper/lower flammability/explosive limits	Not known
Vapour Pressure mm Hg @ 20°C	Not determined
Vapour Density Pa @ 25°C	Not applicable
Relative density	Not determined
Solubilities	Partially soluble in water
Partition coefficient: n-octanol/water	Not determined
Autoignition Temperature °C	Not determined
Decomposition Temperature °C	Not determined
Kinematic viscosity	Not applicable

**EMERGENCY PHONE: 0800 CHEMCALL (0800 243 622) 24 hours**

**Date of Issue: 11<sup>th</sup> May 2022**

**Date of Revision: May, 2027**

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Particle characteristics

Not available

### 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions.

**Conditions to avoid:** Contact with strong acids, strong alkalis, strong oxidizing agents.

**Hazardous decomposition products:** At high temperatures may release oxides of carbon, nitrogen, sulfur.

**Hazardous reactions:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

Toxicity classifications determined by assessment of the components in the formulated mixture.

**Acute toxicity:** Harmful in contact with skin. Maybe harmful if swallowed.

**Aspiration hazard:** Not classified as an aspiration hazard.

**Respiratory irritation:** Not classified as respiratory irritant.

**Skin corrosion/irritation:** Not classified.

**Serious eye damage/irritation:** Serious eye irritant.

**Respiratory or skin sensitization:** A contact sensitizer with prolonged or repeated exposure.

**Germ cell mutagenicity:** Not classified.

**Carcinogenicity:** Not classified although ECHA database identifies streptomycin as suspected of causing cancer.

**Reproductive toxicity:** Not classified although ECHA database identifies streptomycin as suspected of damaging fertility or the unborn child.

**Specific organ toxicity:** May cause damage to organs through prolonged or repeated exposure.

Streptomycin is an aminoglycoside antibiotic that can cause damage to the auditory nerve and neuromuscular paralysis.

**Narcotic effects:** Not classified.

#### Toxicological Information:

Streptomycin sulphate	Oral, rat, LD <sub>50</sub> 430 mg/kg
	Oral, mouse, LD <sub>50</sub> 430 mg/kg
	Subcutaneous, rat, LD <sub>50</sub> 600 mg/kg

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** This product is very toxic to aquatic life and harmful to terrestrial vertebrates. Do not contaminate waterways, sewers, or drains when using product, or disposing of product or wash water from equipment.

**Persistence and degradability:** Not specific information on product is available.

**Potential to be bioaccumulative:** No specific information available.

**Mobility in soil:** Streptomycin is soluble in water.

**Other adverse effects:** No information available

#### Ecotoxicological Information:

Streptomycin sulphate	Oral, rat, LD <sub>50</sub> 430 mg/kg
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**Environmental Exposure Limits (EEL's):** Not set.

### 13. DISPOSAL CONSIDERATIONS

**Disposal Methods:** Ensure container is empty before disposal to landfill. Triple rinse with water. Use rinsings in preparing the diluted solution.

Waste should be disposed of to an approved waste disposal facility or by burying at an approved site. Do not burn product or containers.

Ensure disposal of containers and product is in compliance with requirements of national and local authorities.

### 14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	3077	UN No.	3077	UN No.	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SOLID, N.O.S (CONTAINS STREPTOMYCIN)	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SOLID, N.O.S (CONTAINS STREPTOMYCIN)	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SOLID, N.O.S (CONTAINS STREPTOMYCIN)
DG Class	9	DG Class	9	DG Class	9
Sub. Risk		Sub. Risk		Sub. Risk	
Pack Group	III	Pack Group	III	Pack Group	III
Hazchem	2Z	Hazchem	2Z		

**Marine Pollutant:** -

#### Dangerous Goods Segregation

This product is classified as a Dangerous Good Class for Transport.

Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.

### 15. REGULATORY INFORMATION

#### **HSNO Act 1996**

**Approval Code:**

HSR000783

**Classifications:**

Wettable powder containing 170 g/kg streptomycin as the sulfate salt..  
Acute dermal toxicity Category 4, Eye irritation Category 2,  
Skin sensitisation Category 1, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to terrestrial vertebrates,  
Hazardous to the aquatic environment acute Category 1.

**Controls:**

Refer to [www.epa.govt.nz](http://www.epa.govt.nz) for information on Controls and  
[www.worksafe.govt.nz](http://www.worksafe.govt.nz) for further information on compliance.

**Additional label statement requirements:**

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Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Do not apply directly into or onto water.

### ACVM Act 1997

**Registration Number:** P001369; KeyStrepto.

Refer to [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for Conditions of Registration.

## 16. OTHER INFORMATION

**Date of issue:** 11<sup>th</sup> May 2022

**Reasons for Issue:** Update company logo and 24hour Emergency telephone number.

**Replaces:** SDS dated 9<sup>th</sup> April 2022.

### Abbreviations:

ACVM	Agricultural Compounds and Veterinary Medicines
ECHA	European Chemical Agency
EPA	New Zealand Environmental Protection Authority
GHS	Global Harmonised System
HSIS	Hazardous Substance Information System
HSNO	Hazardous Substances and New Organisms
NZIoC	New Zealand Inventory of Chemicals
STEL	Short Term Exposure Limit (15 minute exposure period)
TWA	Time-Weighted Average (8 hours exposure period)
WES	Workplace Exposure Standard

### References:

EPA [www.epa.govt.nz](http://www.epa.govt.nz)

Supplier information and SDS

Worksafe NZ [www.worksafe.govt.nz](http://www.worksafe.govt.nz)

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The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the supplier's knowledge. Each user should read this SDS 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.