

Safety Data Sheet **STRONTIUM CHLORIDE**

SDS no. Q3CY9MXN • Version 1.0 • Date of issue: 2026-02-27

SECTION 1: Identification

GHS Product identifier

Product name STRONTIUM CHLORIDE

Other means of identification

Product Product Code

Strontium Chloride AR Hexahydrate SA062

Strontium Chloride LR Hexahydrate SLO62

Strontium Chloride TG Hexahydrate ST062

Recommended use of the chemical and restrictions on use

Strontium salts, pyrotechnics, electron tubes, toothpaste, analytical reagent and laboratory reagent.

Supplier's details

Name ChemSupply Australia Pty Ltd
Address 38-50 Bedford Street
5013 Gillman South Australia
Australia

Telephone 08 8440 2000
email www.chemsupply.com.au

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Serious eye damage/eye irritation, Cat. 2A

GHS label elements, including precautionary statements

Pictograms

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Signal word

Warning

Hazard statement(s)

H319

Causes serious eye irritation

Precautionary statement(s)

P280

P305+P351+P338

P337+P313

Wear protective gloves/protective clothing/eye protection/face protection.
IF IN 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/attention.

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight	266.61
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Component	Identification	Weight %
Strontium chloride hexahydrate	CAS no.: 10025-70-4	<= 100 %

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice

For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

First Aid Facilities: Maintain eyewash fountain in work area.

If inhaled

If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

In case of skin contact

Rinse with plenty of water. Get medical attention if irritation develops and persists.

In case of eye contact

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.

If swallowed

Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

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SECTION 5: Fire-fighting measures

Suitable extinguishing media

Small fire: Use dry chemical, CO₂, water spray or foam.

Large fire: Use water spray, fog or foam.

If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

Specific hazards arising from the chemical

Hazards from Combustion Products: Toxic fumes, hydrogen chloride gas, hydrochloric acid, oxides of strontium and chlorine, chlorine, possibly also free, or ionic chloride, halogenated compounds.

Special protective actions for fire-fighters

Wear SCBA and structural firefighter's uniform.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. For personal protection see section 8.

Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid ingestion and inhalation of vapours or dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Ensure good ventilation at the workplace. Use with adequate ventilation. Minimize dust generation and accumulation. If ingested, seek medical advice immediately and show the container or the label. In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable protective clothing. Wash thoroughly after handling. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Conditions for safe storage, including any incompatibilities

Store in a tightly closed container, in a cool, dry, ventilated area away from incompatible substances. Store away from oxidizing agents. Keep well closed and protected from direct sunlight and moisture. Keep away from heat, flame and all sources of ignition. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Body protection

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Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid
Appearance	Crystals or granules.
Color	White or colourless
Odor	Odourless.
Odor threshold	
Melting point/freezing point	~ 61 °C; 872 °C (anhydrous).
Boiling point or initial boiling point and boiling range	n/a
Flammability	not flammable
Lower and upper explosion limit/ flammability limit	n/a
Flash point	n/a
Auto-ignition temperature	n/a
Decomposition temperature	Loses 6 H ₂ O @ 150 °C.
pH	5.0 - 7.0 (50 g/l, 25 °C); neutral in solution.
Kinematic viscosity	n/a
Solubility	Solubility in Water: Soluble in water(125 g/100 ml). Solubility in Organic Solvents: Soluble in alcohol.
Partition coefficient n-octanol/ water (log value)	n/a
Vapor pressure	n/a
Density and/or relative density	Specific Gravity: 1.964
Relative vapor density	n/a
Particle characteristics	n/a

Further safety characteristics (supplemental)

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Other Information: Sharp, bitter taste.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions of storage and handling.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal use conditions.

Hazardous Polymerization: Will not occur.

Conditions to avoid

High temperatures and moisture.

Incompatible materials

Oxidizing agents.

Hazardous decomposition products

Hydrogen chloride gas, hydrochloric acid, oxides of strontium and chlorine, chlorine, possibly also free, or ionic chloride, halogenated compounds.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Toxicity - Oral: LD50 Oral - Rat - female - > 2,000 mg/kg
(OECD Test Guideline 423)

Ingestion: Large oral doses may cause irritation to the gastrointestinal tract, with nausea, vomiting, diarrhoea, acidosis, slight headache, and malaise lasting for several days; painful contractions in limbs and bone deformities.

Inhalation: May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.

Skin corrosion/irritation

May cause irritation, with redness and pain.

Serious eye damage/irritation

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Respiratory or skin sensitization

[09] Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Specific target organ toxicity (STOT) - single exposure

Not classified based on available information.

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Specific target organ toxicity (STOT) - repeated exposure

Not classified based on available information.

Aspiration hazard

Based on available data, classification data are not met

SECTION 12: Ecological information

Other adverse effects

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP

Poison Schedule: NS

SECTION 16: Other information

Further information/disclaimer

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)