

SAFETY DATA SHEET (SDS)



Strontium chloride, 1M

Issue date: 12-09-2025

Section 1: Product Identifier and Chemical Identity

| Product Identifier | |
|---|---|
| Product Name: | Strontium chloride, 1M |
| Product Codes: | MC91.48, MC92.48 |
| Other means of identification: | |
| Chemical formula, alternative names: | SrCl _{2(aq)} |
| Recommended use of the chemical and restrictions on use | |
| Recommended Use: | For laboratory use only. |
| Suppliers name, address and phone number | |
| Supplier's Name: | Southern Biological |
| Supplier's ABN: | 94 630 703 810 |
| Supplier's Address: | 168 Fulham Road Alphington Victoria 3078 Australia |
| Supplier's Phone No.: | 1300 138 561 |
| Emergency Phone number (BH) | 1300 138 561 |

Section 2: Hazard Identification

| Classification of the Hazardous Chemical | |
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| Hazard Category | Acute toxicity (oral) category 4 Serious eye damage/irritation category 1 |
| Label elements | |
| Hazard Pictograms: |   exclamation mark corrosive |
| Signal Word: | Danger |
| Hazard Statements: | Harmful if swallowed Causes serious eye damage |
| Precautionary Statements: | Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not ingest. |
| Other Hazards | |
| Results of PBT and vPvB assessment: | PBT: Not applicable vPvB: Not applicable |

Section 3: Composition/information on ingredients

| Ingredients | | |
|---------------------------------|------------|------------|
| Name | CAS | Proportion |
| Water | 7732-18-5 | 73.3% |
| Strontium chloride, hexahydrate | 10025-70-4 | 26.7% |

Section 4: First Aid Measures

| Necessary first aid measures | |
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| After inhalation: | Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms; call a doctor. |
| After skin contact: | Wash with water and soap and rinse thoroughly. If skin irritation occurs: Get medical advice/ attention. |
| After eye contact: | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| After swallowing: | DO NOT INDUCE VOMITING. Wash out mouth with water. Obtain emergency medical attention. Call a POISON CENTRE or doctor/physician if you feel unwell. |
| Symptoms caused by exposure | |
| Acute and delayed: | Vomiting, diarrhoea, abdominal paid, drowsiness |
| Medical attention and special treatment | |
| Indications of any immediate medical attention and special treatment needed | No further relevant information available. |

Section 5: Firefighting measures

| Extinguishing media | |
|---|---|
| Suitable extinguishing equipment: | Use extinguishing measures that are appropriate to local circumstances and the surrounding fire |
| Specific hazards arising from the chemical: | Hydrogen chloride gas, strontium oxides. Ambient fire may liberate hazardous vapours. |
| Advice for firefighters | |
| Special protective equipment and precautions: | Do not enter the fire area without proper protective equipment including respiratory equipment. |

Section 6: Accidental release measures

| General Information | |
|--|---|
| Personal precautions, protective equipment and emergency procedures: | Avoid inhalation of mists and vapours. Follow personal protective equipment recommendations found in Section 8 of this SDS. Prevent the spread of any spill to minimise harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. |
| Environmental precautions: | Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if spill to sewers or public waters. |
| Methods and material for containment and cleaning up: | Dispose of contaminating material as waste according to item 13. Ensure adequate ventilation. |
| Reference to other sections: | See Section 7 for information on safe handling. See Section 8 for information on protective equipment. See Section 13 for disposal information. |

Section 7: Handling and Storage

| General Information | |
|---|---|
| Precautions for safe handling: | <p>Ensure good ventilation/exhaustion at the workplace.</p> <p>Wash hands after use.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Wash contaminated clothing and protective equipment prior to entering eating area.</p> |
| Information about fire – and explosion protection: | No special measures required. |
| Conditions for safe storage, including any incompatibilities. | |
| Storage: | Store in cool dry area out of direct sunlight and incompatible materials. Keep containers closed when not in use. Store in suitably labelled containers. |
| Requirements to be met by storerooms and receptacles: | No special requirements. |
| Information about storage in one common storage facility: | Not required. |
| Further information about storage conditions: | Keep container tightly sealed. Keep out of direct sunlight. Store away from oxidising agents. Keep well closed and protected from direct sunlight and moisture. |

Section 8: Exposure controls/personal protection.

| General information | |
|--|---|
| Additional information about design of technical facilities: | No further data: see section 7 |
| Control parameters: | |
| Ingredients with limit values that require monitoring at the workplace: none | |
| Exposure Controls: | |
| General protective and hygienic measures: | <p>Use only in systems, processes and procedures in which effective ventilation has been provided.</p> <p>Keep away from foodstuffs, beverages and feed.</p> <p>Immediately remove all soiled and contaminated clothing</p> <p>Wash hands before breaks and at the end of work.</p> <p>Avoid contact with eyes.</p> |
| Respiratory protection: | In case of significant exposure use respiratory filter device. Not normally required. |
| Clothing / Foot-wear and equipment | No special requirements. |
| Protection of hands: | PVC or rubber gloves |
| Eye protection: | Tightly sealed goggles |
| Skin protection: | Laboratory Coat |

Section 9: Physical and chemical properties

| Appearance: | |
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| Form: | Liquid |
| Colour: | Clear |
| Odour: | Odourless |
| Odour Threshold: | Not determined |
| pH value: | Not determined |

| Change in Condition: | |
|--|---------------------|
| Melting point/Melting range: | Not determined |
| Boiling point/Boiling range: | Not determined |
| Flash point: | Not determined |
| Flammability (solid / gaseous) | Not determined |
| Ignition Temperature | |
| Decomposition temperature: | Not determined |
| Self-igniting: | Not determined |
| Danger of explosion: | Not determined |
| Explosion limits | |
| Lower: | Not determined |
| Upper: | Not determined |
| Vapour pressure: | Not determined |
| Density: | Not determined |
| General Info | |
| Relative density: | Not determined |
| Vapour density: | Not determined |
| Evaporation rate: | Not determined |
| Solubility in/ Miscibility with water: | Miscible |
| Partition coefficient (n-octanol/water): | Not determined |
| Viscosity: | Not determined |
| Other information: | Sharp, bitter taste |

Section 10: Stability and reactivity

| Reactivity | |
|---|--|
| General | No further relevant information available. |
| Chemical Stability | |
| Thermal decomposition / conditions to be avoided: | No decomposition if used according to specifications. |
| Possibility of hazardous reactions: | No dangerous reactions known. |
| Conditions to avoid: | High temperatures, direct sunlight |
| Incompatible materials: | Oxidising agents |
| Hazardous decomposition products: | Hydrogen chloride gas, hydrochloric acid, oxides of strontium and chlorine, chlorine, free or ionic chloride, halogenated compounds. |

Section 11: Toxicological information

| Information on toxicological effects | | | |
|--|---|----------------|-----------------|
| 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. | | |
| Skin corrosion/irritation | May cause irritation, with redness and pain. | | |
| Serious eye damage/irritation: | Causes burns to the eyes. May cause irritation, redness and pain. | | |
| Inhalation: | May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath. | | |
| 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 | | |
| Specific target organ toxicity (STOT) – repeated exposure: | Not classified based on available information | | |
| Toxicology data for the components: | | | |
| Component | LD50 oral | LD50 dermal | LC50 inhalation |
| Strontium chloride | Rat – female - > 2000 mg/kg | No information | No information |

Section 12. Ecological information

| Ecotoxicity | | |
|------------------------------------|---|---|
| Toxicity to fish | LC50 (static) – Morone saxatilis (striped bass) - >92.8 mg/L – 96hr | |
| Toxicity to daphnia | EC50 (static) – Daphnia magna (water flea) – 125 mg/L – 48hr | |
| Toxicity to algae | EcR50 (static) – Pseudokirchneriella subcapitata (green algae) - >104.7 mg/L – 72hr | |
| Toxicity to bacteria | EC50 (static) – activated sludge - > 100mg/L – 3hr | |
| Toxicity to fish (chronic) | NOEC (flow-through) – Danio rerio (zebra fish) - >100 mg/L – 34d | |
| Persistence and degradability: | | No further relevant information available. |
| Behaviour in environmental systems | | |
| Bio-accumulative potential: | | No further relevant information available. |
| Mobility in soil: | | No further relevant information available. |
| Additional ecological information | | |
| Results of PBT and vPvB assessment | | PBT: Not applicable vPvB: Not applicable |
| Other adverse effects: | | No further relevant information available. |

Section 13. Disposal Considerations

| Waste treatment methods | |
|-------------------------|---|
| Recommendation | Prevent this material from entering waterways, drains and sewers. Comply with official regulations. |

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| Uncleaned packaging: | |
| Recommendation: | Disposal must be made according to official regulations. |
| Recommended cleansing agents: | Water, if necessary, together with cleansing agents. |

Section 14. Transport information

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| General | Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. |
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Section 15. Regulatory Information

| Safety health and environmental regulations/legislation specific for the substance or mixture | |
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| Australian Inventory of Chemical Substances: | Substances are listed. |
| Chemical safety assessment: | A Chemical Safety Assessment has not been carried out. |

Section 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- End of SDS -