



The Science Company™

MSDS

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product: Strontium Chloride, Hexahydrate
Product Code(s): NC-2718, NC-11609
CAS#: 10025-70-4
Synonyms: Not available
Distributor: The Science Company
95 Lincoln St Denver, CO 80203
Ph: (303) 777-3777 Fax: (303) 777-3331
Emergency Number: (800) 222-1222 (POISON CONTROL)
Customer Service: (303) 777-3777

2. HAZARDS IDENTIFICATION

Emergency Overview: CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, RESPIRATORY TRACT, AND/OR GASTROINTESTINAL TRACT. MAY BE HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.

Safety Ratings: Health: 1, Slight Reactivity: 1, Slight
Flammability: 0, None Contact: 2, Moderate

OSHA Regulatory Status: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Acute Health Effects:

Routes of Exposure: Inhalation, ingestion, skin contact, eye contact

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

Ingestion: Harmful if ingested. May cause irritation to the gastrointestinal tract.

Skin Contact: May cause irritation, redness, and pain.

Eye Contact: May cause irritation, redness, and pain.

Target Organs: Gastrointestinal Tract, Respiratory Tract

Chronic Health Effects: No adverse chronic health effects expected.

**Aggravation of:
Medical Conditions:** Persons with impaired kidney function may be more susceptible to the effects of the substance.

**Potential Environmental
Effects:** No information found.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>Chemical Formula</u>	<u>Formula Weight</u>	<u>Hazardous</u>	<u>% by Weight</u>
Strontium Chloride, Hexahydrate	10025-70-4	SrCl ₂ ·6H ₂ O	267.00	No	>95.0

4. FIRST AID MEASURES

First Aid Procedures:

Inhalation:	Remove to fresh air. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Get medical attention if symptoms occur.
Ingestion:	Give several glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Skin Contact:	In case of contact, wash skin plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists.
Eye Contact:	Check for and remove contact lenses. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention if irritation persists.

General Advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Notes to Physician: Treat symptomatically

5. FIRE FIGHTING MEASURES

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0

Flammable Properties: Material is not flammable.

Flash Point: Not applicable **Auto-**

ignition Temp: Not applicable

Flammable Limits in Air (% by volume): Not applicable

Suitable Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Unsuitable Extinguishing Media: Not applicable

Hazardous Combustion Products: No information found.

Specific Hazards: No information found.

Special Protective Equipment For Firefighters: As in any fire, wear MSHA/NIOSH approved (or equivalent) self-contained breathing apparatus with full face piece operated in the pressure-demand or other positive pressure mode and full protective gear.

Specific Methods: Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Wear appropriate personal protective equipment as specified in the Exposure Control and Personal Protection Section 8. Avoid contact with eyes, skin, and clothing.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. In case of large spill, dike if needed.

Methods for Containment: Prevent entry into waterways, sewer, basements or confined areas. Dike the spilled material, where this is possible. If necessary, use water spray to reduce vapors.

Methods for Cleaning Up: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Clean contaminated surface thoroughly. Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Handling: Wear personal protective equipment (see section 8). Use only in well-ventilated areas. Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not ingest. Keep away from incompatible materials. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquids). Observe all warnings and precautions listed for the product

Storage: Store in a cool, dry, ventilated area away from incompatible materials. Keep containers tightly closed and upright. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limits:

Product: No information found.

Engineering Controls: Ensure adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment:

Eye Protection: Wear safety glasses with side shields or goggles.

Skin Protection: Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.

Respiratory Protection: A NIOSH- approved dust respirator may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels

are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

General Hygiene Considerations:

Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Appearance:	Crystals
Color:	White or colorless
Odor:	Odorless
Molecular Formula:	SrCl ₂ ·6H ₂ O
Molecular Weight:	267.00
pH:	No information found
Specific Gravity:	2.0
Freezing/Melting Point:	868°C (1594°F) (Anhydrous)
Boiling Point:	1250°C (2282°F)
Flash Point:	Not applicable
Auto Ignition Temperature:	Not applicable
Flammable Limits in Air (% by Volume):	Not applicable
Solubility:	Soluble in water
Vapor Pressure:	Not applicable
Vapor Density:	No information found
Percent Volatile:	0 %
Odor threshold (ppm):	No information found
Evaporation Rate:	No information found
Partition Coefficient (n-octanol/water):	No information found

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Incompatibles.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	Oxides of the contained metal and halogen, possibly also free, or ionic halogen.
Possibility of Hazardous Reactions:	No information found.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Product:	Oral Rat LD50:	2250 mg/kg
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Acute Effects:	Harmful if swallowed or inhaled.
Local Effects:	May cause irritation to any area of contact.
Sensitization:	Not a skin sensitizer.
Chronic Effects:	No information found.
Carcinogenic Effects:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Skin Corrosion/Irritation:	May cause skin and eye irritation.
Epidemiology:	No epidemiological data is available for this product.
Mutagenicity:	May affect genetic material
Neurological Effects:	No information found
Reproductive Effects:	No information found.
Teratogenic Effects:	No information found
Target Organs and Symptoms:	No information found.

12. ECOLOGICAL INFORMATION

Ecotoxicological Data:

Product:	No information found.
Ecotoxicity:	No information found.
Environmental Effects:	No information found.
Persistence and Degradability:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Partition Coefficient (n-octanol/water):	No information found.

13. DISPOSAL INFORMATION

Disposal Instructions:	Dispose of this material and its container at an appropriate and approved waste disposal facility. Processing, use, or contamination of this product may change the waste management options. All wastes must be handled in accordance with local, state and federal regulations.
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.
Waste Codes:	No information found

14. TRANSPORT INFORMATION

DOT: Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: Strontium Chloride *Anhydrous*

U.S. EPCRA (SARA Title III):

Sections 311/312:	Hazard Categories	List (Yes/No)
	Section 311 – Hazardous Chemical	Yes
	Immediate Hazard	Yes
	Delayed Hazard	No
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No

International Inventories: (Strontium Chloride <i>Anhydrous</i>)	Country(s) or Region	Inventory Name	On Inventory (Yes/No)*
	Australia	Australian Inventory of Chemical Substances (AICS)	Yes
	Canada	Domestic Substances List (DSL)	Yes
	Canada	Non-Domestic Substances List (NDSL)	No
	China	Inventory of Existing Chemical Substances in China (IECSC)	No
	Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
	Europe	European List of Notified Chemical Substances (ELINCS)	No
	Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
	Korea	Existing Chemicals List (ECL)	Yes
	New Zealand	New Zealand Inventory	N/A
	Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION

Product Use: For manufacturing, industrial and laboratory use only; not for household use.

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