



## Safety Data Sheet

Revision Date: 10/21/2016

### 1.) Identification

Product Name: **Strontium Chloride, Hexahydrate**  
Product Number(s): S1024  
Product Formula:  $\text{SrCl}_2 \cdot 6\text{H}_2\text{O}$

Distributor: The Science Company  
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### 2.) HAZARDS IDENTIFICATION

#### Emergency Overview

#### OSHA Hazards

Irritant

#### Target Organs

#### GHS Classifications

#### GHS Label Elements, Including Precautionary Statements

Pictogram



**Signal Word** Danger

#### Hazard Statement(s)

H318 Causes serious eye damage

#### Precautionary Statement(s)

P280 Wear protective gloves/eye protection / face protection

P305 / P351 / P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 Immediately call a POISON CENTER or doctor/physician

#### HMIS Classification

Health Hazard	2
Flammability	0
Physical Hazards	0

**NFPA Rating**

<b>Health Hazard</b>	2
<b>Fire</b>	0
<b>Reactivity Hazard</b>	0

**Potential Health Effects**

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation
<b>Eyes</b>	Causes eye irritation
<b>Ingestion</b>	May be harmful if swallowed

**3.) INFORMATION ON INGREDIENTS**

<b>EINECS</b>	<b>PERCENT</b>	<b>CAS NO:</b>
233-971-6	99-100%	10025-70-4
<b>EINECS</b>	<b>PERCENT</b>	<b>CAS NO:</b>

**4.) FIRST AID MEASURES****Inhalation**

Remove to fresh air. Get medical attention for any breathing difficulty.

**Skin Contact**

Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical aid if irritation develops.

**Eye Contact**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

**Ingestion Contact**

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

**Danger****5.) FIRE FIGHTING MEASURES****Extinguishing Media**

Dry chemical, foam, carbon dioxide, or water spray.

**Special Fire Fighting Procedures**

Not considered to be a fire hazard.

**Fire and Explosion Hazards**

Not considered to be an explosion hazard.

**Hazardous Combustion Products**

No information found.

**Protective Measure in Fire**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

**6.) ACCIDENTAL RELEASE MEASURES****Personal Precaution in Spill**

Wear appropriate personal protective equipment as specified in Section 8.

**Environment**

Ventilate area of leak or spill.

**Spill Clean Up**

Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

**7.) HANDLING AND STORAGE**

**Usage Precautions**

Avoid formation of dust and aerosols

**Usage Descriptions**

Provide appropriate exhaust ventilation at places where dust is formed

**Storage Precautions**

Keep container tightly closed in a dry area

**Handling Precautions**

Keep in a tightly closed container, stored in a cool, dry, ventilated area. 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.

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**8.) EXPOSURE CONTROLS AND PERSONAL PROTECTION****Protective Equipment**

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

**Process Conditions**

OSHA Permissible Exposure Limit (PEL): 15 mg/m<sup>3</sup> total dust, 5 mg/m<sup>3</sup> respirable fraction for nuisance dusts. - ACGIH Threshold Limit Value (TLV): 10 mg/m<sup>3</sup> total dust containing no asbestos and < 1% crystalline silica for Particulates Not Otherwise Classified (PNOC).

**Respirators**

If the exposure limit is exceeded and engineering controls are not feasible, a half face piece particulate respirator (NIOSH type N95 or better filters) may be worn for up to 10 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Protective Gloves**

Wear protective gloves

**Eye Protection**

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

**Other Protection**

Wear clean body-covering clothing.

**Hygienic Work Practices**

No information found.

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**9.) PHYSICAL AND CHEMICAL PROPERTIES****a) Appearance (physical state, color, etc.)**

White or colorless granules or crystals

**b) Odor**

No data available

**c) Odor threshold**

No data available

**d) pH**

5.0 - 7.0 @ 50 g/l @ 25C (77F)

**e) Melting Point/freezing point**

115C (239F) - lit

**f) Initial boiling Point and boiling range**

No data available

**g) Flash Point**

Not applicable

**h) Evaporation rate**

No data available

**i) Flammability (solid,gas)**

No data available

**j) Upper/lower flammability or explosive limits**

No data available

**k) Vapor pressure**

No data available

**l) Vapor density**

No data available

**m) Relative density**

1.930 g / cm<sup>3</sup>

**n) Solubility(ies)**

No data available No data available

**o) Partition coefficient: n-octanol/water**

No data available

**p) Auto-ignition temperature**

No data available

**q) Decomposition temperature**

Not applicable

**r) Viscosity**

No data available

**s) Specific Gravity**

No data available

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## 10.) STABILITY AND REACTIVITY

### Stability

Stable under ordinary conditions of use and storage.

### Hazardous Decomp Products

Oxides of the contained metal and halogen, possibly also free, or ionic halogen.

### Conditions to Avoid

No information found.

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## 11.) TOXICOLOGICAL INFORMATION

### Toxic Dose LD 50

Intraperitoneal - mouse - 1,253 mg/kg

### Toxicological Info

Investigated as a mutagen.

### Inhalation

No data available

### Skin

Rabbit - No skin irritation

### Eyes

Rabbit - severe eye irritation

### Medical Symptoms

Vomiting, Diarrhea, abdominal pain

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## 12.) ECOLOGICAL INFORMATION

### Toxicity

No information found

### Distribution

No information found

### Chemical Fate

No information found

## 13.) DISPOSAL CONSIDERATIONS

### Disposal Methods

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

### General Cleaning

## 14.) TRANSPORTATION INFORMATION

### DOT - GROUND TRANSPORTATION

#### Proper Shipping Name

Not regulated

#### Hazard Class

Not regulated

#### UN Number

Not regulated

#### Packing Group

Not regulated

### IATA/IMDG REGULATIONS

#### Proper Shipping Name

Not regulated

#### Hazard Class

Not regulated

#### UN Number

Not regulated

#### Packing Group

Not regulated

#### IMDG EMS

Not regulated

**Transportation Notes** NMFC 43940-2 -- CLASS 85 HST 2827.39.90.00

## 15.) REGULATORY INFORMATION

### Chemical Inventory Status Part 1

Ingredient	CASNO	TSCA	EINECS	China	Japan	Australia
Strontium Chloride, Hexahydrate	10025-70-4	Yes	Yes	No	Yes	Yes

### Chemical Inventory Status Part 2

Ingredient	CASNO	Korea	DSL	NDSL	Phil.
Strontium Chloride, Hexahydrate	10025-70-4	Yes	Yes	No	Yes

### Federal, State, International Regulations- Part 1

Ingredient	CASNO	SARA 302		
		RQ	TPQ	LIST
Strontium Chloride, Hexahydrate	10025-70-4	No	No	No

### SARA 313

No information found.

### **Federal, State, International Regulations- Part 2**

<b>Ingredient</b>	<b>CASNO</b>	<b>RCRA 261.33</b>	<b>TSCA 8(d)</b>	<b>CERCLA</b>
Strontium Chloride, Hexahydrate	10025-70-4	No	No	No

### **Additional Items**

<b>Chemical Weapons Convention</b>	<b>Acute</b>	<b>TSCA 12(b)</b>	<b>CDTA</b>	<b>SARA 311/312</b>	<b>Reactivity</b>	<b>Chronic</b>
No	Yes	No	No	No	No	No

<b>Fire</b>	<b>Pressure</b>	<b>Australian HazChem Code</b>	<b>Poison Schedule</b>	<b>WHMIS</b>
No	No	No	No	No

## **16.) MISC. INFORMATION**

### **Information Sources**

#### **Revision Comments**

Not applicable.

#### **Other Information**

Not applicable.

## **17.) DISCLAIMER**

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