



## Safety Data Sheet

In accordance with CFR 1910.1200 (OSHA HCS)

SDS No. 2396

Date of review: July 13, 2015

### 1 Identification of substance and company

**Product name:** **Strontium chloride, hexahydrate**  
**Product code:** 15436, 90393, 90997, C2316  
**Relevant use and restrictions on use:** Research and product development  
**Manufacturer/Supplier:** Noah Technologies Corporation  
1 Noah Park  
San Antonio, Texas 78249-3419  
Phone: 210-691-2000  
Fax: 210-691-2600  
Web site: www.noahtech.com  
**Emergency information:** CHEMTREC  
800-424-9300

### 2 Hazards identification

**Emergency Overview:**



**Signal word(s):** Danger  
**Pictogram(s):** Corrosion  
**Hazard statements:** H318 Causes serious eye damage  
**Precautionary statements:** P280 Wear protective gloves/eye protection/face protection  
P305+351+338 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  
**Hazards not otherwise classified:** None identified  
**Ingredients of unknown acute toxicity:** None identified  
**GHS Classification:** Serious eye damage - 1  
**HMIS ratings (scale 0-4):**  
Health hazard: 1  
Flammability: 0  
Physical hazard: 0

### 3 Composition/Information on ingredients

**Chemical name:** Strontium chloride, hexahydrate  
**Designation:**  
**CAS number:** 10025-70-4  
**EC number:** 233-971-6  
**Formula:** SrCl<sub>2</sub>·6H<sub>2</sub>O  
**Synonyms:** Strontium dichloride  
**Ingredients of known acute toxicity:** Strontium chloride, hexahydrate

### 4 First aid measures

**After inhalation:** Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.  
**After skin contact:** Wash off with soap and plenty of water. Consult a physician.  
**After eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician  
**After ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.  
**Information for doctor:** Show this safety data sheet to the doctor in attendance  
**Symptoms/effects; acute and delayed:** Symptoms of acute toxicity are excessive salivation, vomiting, colic, and diarrhea, and possibly respiratory failure. The gastrointestinal absorption of soluble strontium ranges from 5 to 25%.  
**Immediate medical attention and special treatment needed:** See above

### 5 Fire-fighting measures

**Suitable and unsuitable extinguishing agents:** Water spray, alcohol-resistant foam, dry chemical or carbon dioxide  
**Special hazards caused by the material, its products of combustion or resulting gases:** Oxides of strontium, hydrogen chloride gas  
**Special fire fighting procedures:** Wear self contained breathing apparatus (SCBA) and fully protective fire fighting equipment/clothing  
**Unusual fire and explosion hazard:** No data available

## 6 Accidental release measures

|   |   |
|---|---|
| <b>Person-related safety precautions:</b>     | Use personal protective equipment. Avoid breathing dust, mist or gas. Ensure adequate ventilation.  |
| <b>Measures for environmental protection:</b> | Do not let product enter drains   |
| <b>Measures for cleaning/collecting:</b>      | Prevent spread or spill. Use dustless methods and place into suitable container for proper disposal.  |
| <b>Additional information:</b>                | See Section 7 for information on safe handling<br>See Section 8 for information on personal protective equipment<br>See Section 13 for information on disposal<br>See Section 15 for regulatory information |

## 7 Handling and storage

|   |   |
|---|---|
| <b>Information for safe handling:</b>                               | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. |
| <b>Information about protection against explosions and fires:</b>   | None known  |
| <b>Storage requirements to be met by storerooms and containers:</b> | Keep container tightly closed in a dry and well-ventilated place      |
| <b>Incompatibility (avoid contact with):</b>                        | Strong oxidizers  |
| <b>Further information about storage conditions:</b>                | No additional information   |

## 8 Exposure controls/personal protection

|  |  |
|--|--|
| <b>Ventilation requirements:</b>   | Local exhaust, chemical fume hood  |
| <b>Components with exposure limits that require monitoring:</b>              | Not available  |
| <b>Additional information:</b>   | No additional data   |
| <b>General protective and hygienic measures:</b>                             | The usual precautionary measures for handling chemicals should be adhered to<br>Keep away from foodstuffs, beverages and food<br>Instantly remove any soiled and impregnated garments<br>Wash hands during breaks and at the end of the work<br>Avoid contact with the eyes and skin |
| <b>Personal protective equipment:</b>  |  |
| <b>Respiratory protection:</b><br>(Use only NIOSH or CEN approved Equipment) | Filter-dust, fume, mist respirator   |
| <b>Hand protection:</b>  | Impervious gloves. Gloves must be inspected prior to use.  |
| <b>Eye protection:</b>   | Safety glasses   |
| <b>Skin protection:</b>  | Impervious work clothing   |
| <b>Additional protective equipment:</b>                                      | Sufficient to prevent contact. Emergency eyewash and safety shower.  |
| <b>Precautionary labeling:</b>   | Wash thoroughly after handling. Do not get in eyes, on skin or on clothing. Do not breathe dust, vapor, mist.  |

## 9 Physical and chemical properties

|   |                           |
|---|---------------------------|
| <b>Physical state:</b>                        | Crystalline powder        |
| <b>Color:</b>                                 | White to tan              |
| <b>Odor:</b>                                  | Odorless                  |
| <b>Odor threshold:</b>                        | No data available         |
| <b>Molecular Weight (Calculated):</b>         | 266.62                    |
| <b>pH</b>                                     | 5.0 - 7.0 @ 50 g/L @ 25 C |
| <b>Melting point/freezing point/range:</b>    | 115 C                     |
| <b>Boiling point/range:</b>                   | 1250 C                    |
| <b>Sublimation temperature/start:</b>         | No data available         |
| <b>Decomposition temperature:</b>             | No data available         |
| <b>Flammability (solid, gas):</b>             | Non-flammable             |
| <b>Flash point:</b>                           | No data available         |
| <b>Autoignition temperature:</b>              | No data available         |
| <b>Danger of explosion:</b>                   | No data available         |
| <b>Flammable limits:</b>                      |                           |
| <b>Lower:</b>                                 | No data available         |
| <b>Upper:</b>                                 | No data available         |
| <b>Evaporation Rate:</b>                      | No data available         |
| <b>Vapor pressure (mm Hg):</b>                | No data available         |
| <b>Vapor density:</b>                         | No data available         |
| <b>Specific gravity:</b>                      | 1.93                      |
| <b>Bulk density:</b>                          | No data available         |
| <b>Solubility in/Miscibility with water:</b>  | 1062 g/L @ 0 C            |
| <b>Partition coefficient n-octanol/water:</b> | No data available         |
| <b>Viscosity:</b>                             | No data available         |
| <b>Other information:</b>                     | No additional data        |

## 10 Stability and reactivity

|  |  |
|--|--|
| <b>Reactivity:</b>                         | No data available  |
| <b>Chemical stability:</b>                 | Stable under recommended storage conditions  |
| <b>Possibility of hazardous reactions:</b> | Contact with powerful oxidizing agents may cause fires                                     |
| <b>Conditions to be avoided:</b>           | Contact with incompatibles<br>See section 7 for information on proper handling and storage |
| <b>Materials to be avoided:</b>            | Strong oxidizers   |
| <b>Dangerous reactions:</b>                | No data available  |

Hazardous decomposition products:  
(thermal and other)

Oxides of strontium, hydrogen chloride gas

#### 11 Toxicological information

LD/LC50 values that are relevant for classification: oral-rat LD50: 2250 mg/kg

Irritation or corrosion of skin: No data available

Irritation or corrosion of eyes: No data available

Primary irritant or corrosive effect:

on the skin: No data available

on the eye: See above

Sensitization: No data available

Potential health effects:

Inhalation: May cause irritation

Ingestion: See below

Skin: No data available

Eyes: Causes serious eye damage

Signs and symptoms of exposure: Symptoms of acute toxicity are excessive salivation, vomiting, colic, and diarrhea, and possibly respiratory failure. The gastrointestinal absorption of soluble strontium ranges from 5 to 25%.  
To the best of our knowledge the acute and chronic toxicity of this substance is not fully known

Carcinogenicity: No classification data available from ACGIH, NTP or OSHA

Additional information: No additional data

#### 12 Ecotoxicological information

Toxicity:

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability:

Biodegradability: No data available

Bioaccumulative potential:

Bioaccumulation: No data available

Mobility in soil: No data available

Other adverse effects: No data available

#### 13 Disposal considerations

Recommendation: Consult state, local or national regulation for proper disposal  
Allow professional disposal company to handle waste  
Must be specially treated under adherence to official regulations

Unclean packagings recommendation: Disposal must be made according to official regulations

#### 14 Transport information

##### Land transport DOT

Proper shipping name: Chemicals Non-Hazardous

Technical name: Strontium chloride, hexahydrate

##### Air transport ICAO-TI and IATA-DGR:

Proper shipping name: Chemicals Non-Hazardous

Technical name: Strontium chloride, hexahydrate

##### UPS Ground / FedEx Ground

Proper shipping name: Chemicals Non-Hazardous

Technical name: Strontium chloride, hexahydrate

##### UPS Air

Proper shipping name: Chemicals Non-Hazardous

Technical name: Strontium chloride, hexahydrate

#### 15 Regulatory information

SARA Section 302 Extremely Hazardous components and corresponding TPQs: Not subject to reporting requirements

SARA Section 311 / 312 hazards: Acute Health Hazard

SARA Section 313 components: Not subject to reporting requirements

California Proposition 65 components: Not subject to reporting requirements

TSCA: This product is listed in the TSCA inventory

#### 16 Other information

The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulation are subject to change and the conditions of handling and use, or misuse are beyond our control. NOAH MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.

Review date: July 13, 2015