



## Material Safety Data Sheet

### Strontium AA Standard, 1ml=1mg Sr (1000ppm)

#### Section 1 - Chemical Product and Company Identification

**MSDS Name:**

Strontium AA Standard, 1ml=1mg Sr (1000ppm)

**Catalog Numbers:**

LC25400

**Synonyms:**

None

**Company Identification:**

LabChem Inc  
200 William Pitt Way  
Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

#### Section 2 – Composition, Information on Ingredients

| CAS#      | Chemical Name:      | Percent |
|-----------|---------------------|---------|
| 7732-18-5 | Water               | >99     |
| 7697-37-2 | Nitric acid         | 4       |
| 1633-05-2 | Strontium carbonate | 0.17    |

#### Section 3 - Hazards Identification

##### Emergency Overview

**Appearance:** Clear, colorless solution**Danger!** Corrosive. Causes eye and skin irritation or burns. May cause severe respiratory and gastrointestinal tract irritation.**Target Organs:** Eyes, skin, respiratory system, teeth

##### Potential Health Effects

**Eye:**

Causes eye irritation or burns. May cause chemical conjunctivitis and corneal damage.

**Skin:**

Causes skin irritation or burns.

**Ingestion:**

May cause severe irritation or burns to the gastrointestinal tract. May cause systemic effects.

**Inhalation:**

May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath, and pulmonary edema.



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**Chronic:**

Chronic exposure may result in dental erosion and respiratory disease.

### Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid at once. Do NOT allow victim to rub or keep eyes closed.

**Skin:**

Get medical aid at once. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:**

Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid at once.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

**Notes to Physician:**

Treat symptomatically and supportively.

### Section 5 - Fire Fighting Measures

**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may be heavier than air and collect in low or confined areas. Reacts with most metals to form flammable hydrogen gas.

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**

Not applicable.

**Flash Point:**

Not applicable.

**NFPA Rating:**

Health- 2, Flammability- 0, Instability- 0.

**Explosion Limits:**

Lower: n/a Upper: n/a

### Section 6 - Accidental Release Measures

**General Information:**

Use proper personal protective equipment as indicated in Section 8.



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#### Spills/Leaks:

Absorb spill with inert material (vermiculite, sand, diatomaceous earth), and place in suitable containers labeled for disposal. Clean up spills immediately, observing precautions in Protective Equipment section.

## Section 7 - Handling and Storage

#### Handling:

Use only in a well-ventilated area. Do not breathe vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not ingest or inhale. Discard contaminated shoes.

#### Storage:

Store in a cool, dry, well-ventilated area away from incompatible substances. Keep container closed when not in use.

## Section 8 - Exposure Controls, Personal Protection

#### Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations below the Permissible Exposure Limits.

#### Exposure Limits:

| Chemical Name:      | ACGIH                    | NIOSH                     | OSHA                                  |
|---------------------|--------------------------|---------------------------|---------------------------------------|
| Water               | none listed              | none listed               | none listed                           |
| Nitric acid         | 2 ppm TWA;<br>4 ppm STEL | 2 ppm TWA;<br>25 ppm IDLH | 2 ppm TWA;<br>5 mg/m <sup>3</sup> TWA |
| Strontium carbonate | none listed              | none listed               | none listed                           |

#### OSHA Vacated PELs:

Nitric acid: 2 ppm TWA; 5 mg/m<sup>3</sup> TWA

#### Personal Protective Equipment

##### Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

##### Skin:

Wear appropriate gloves to prevent skin exposure.

##### Clothing:

Wear appropriate protective clothing to prevent skin exposure.

##### Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

**Physical State:** Clear liquid  
**Color:** Colorless  
**Odor:** Odorless



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|                                   |                |
|-----------------------------------|----------------|
| <b>pH:</b>                        | Acidic (<1)    |
| <b>Vapor Pressure:</b>            | Not available  |
| <b>Vapor Density:</b>             | Not available  |
| <b>Evaporation Rate:</b>          | Not available  |
| <b>Viscosity:</b>                 | Not available  |
| <b>Boiling Point:</b>             | 105°C          |
| <b>Freezing/Melting Point:</b>    | Not available  |
| <b>Decomposition Temperature:</b> | Not available  |
| <b>Solubility in water:</b>       | Soluble        |
| <b>Specific Gravity/Density:</b>  | 1.03           |
| <b>Molecular Formula:</b>         | Not applicable |
| <b>Molecular Weight:</b>          | Not applicable |

### Section 10 - Stability and Reactivity

**Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials, excess heat.

**Incompatibilities with Other Materials:**

Strong acids, strong bases.

**Hazardous Decomposition Products:**

Nitrogen oxides.

**Hazardous Polymerization:**

Has not been reported.

### Section 11 - Toxicological Information

**RTECS:**

CAS# 7732-18-5: ZC0110000.

CAS# 7697-37-2: QU5775000, QU5900000.

CAS# 1633-05-2: WK8305000.

**LD50/LC50:**

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 1633-05-2:

No information found.

CAS# 7697-37-2:

Inhalation, rat: LC50 = 67 ppm(NO<sub>2</sub>)/4H

**Carcinogenicity:**

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 7697-37-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 1633-05-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

**Epidemiology:**

No information found



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**Teratogenicity:**

No information found

**Reproductive:**

No information found

**Mutagenicity:**

No information found

**Neurotoxicity:**

No information found

**Section 12 - Ecological Information**

No information found

**Section 13 - Disposal Considerations**

Dispose of in accordance with Federal, State, and local regulations.

**Section 14 - Transport Information**

**US DOT**

**Shipping Name:** Corrosive liquid, acidic, inorganic, nos. (Nitric acid)

**Hazard Class:** 8

**UN Number:** UN3264

**Packing Group:** PG II

**Section 15 - Regulatory Information**

**US Federal**

**TSCA:**

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 7697-37-2 is listed on the TSCA Inventory.

CAS# 1633-05-2 is listed on the TSCA Inventory.

**SARA Reportable Quantities (RQ):**

CAS# 7697-37-2: final RQ = 1000 pounds (454 kg)

**CERCLA/SARA Section 313:**

This material contains Nitric acid (CAS# 7697-37-2, 4%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

**OSHA - Highly Hazardous:**

CAS# 7697-37-2 is considered highly hazardous by OSHA.

**US State**

**State Right to Know:**

Nitric acid can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.



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### California Regulations:

None.

### European/International Regulations

#### Canadian DSL/NDSL:

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 7697-37-2 is listed on Canada's DSL List.

CAS# 1633-05-2 is listed on Canada's DSL List.

#### Canada Ingredient Disclosure List:

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7697-37-2 is listed on Canada's Ingredient Disclosure List.

CAS# 1633-05-2 is not listed on Canada's Ingredient Disclosure List.

## Section 16 - Other Information

MSDS Creation Date: January 1, 2001

Revision Date: October 10, 2008

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