

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
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**MATERIAL SAFETY DATA SHEET (MSDS)****STRONTIUM NITRATE LR (ANHYDROUS)****1. Product Identification**

**Synonyms:** Strontium nitrate anhydrous  
**CAS No.:** 10042-76-9

Product Coad: S0197705000

**Molecular Weight:** 211.63  
**Chemical Formula:** Sr(NO<sub>3</sub>)<sub>3</sub>

**2. Composition/Information on Ingredients**

CAS#	Chemical Name	Percent	EINECS/ELINCS
10042-76-9	Strontium nitrate	99+	233-131-9

**3. Hazards Identification****EMERGENCY OVERVIEW**

Appearance: white crystals.

Danger! Strong oxidizer. Contact with other material may cause a fire. Harmful if swallowed. Causes eye, skin, and respiratory tract irritation.

Target Organs: Blood, respiratory system, gastrointestinal system, eyes, skin.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract. May cause nausea and vomiting.

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

Chronic: May cause methemoglobinemia, which is characterized by chocolate-brown colored blood, headache, weakness, dizziness, breath shortness, cyanosis (bluish skin due to deficient oxygenation of blood), rapid heart rate, unconsciousness and possible death.

**4. First Aid Measures**

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Notes to Physician: Treat symptomatically and supportively.

**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. Strong oxidizer. Contact with other material may cause fire. Substance is noncombustible.

Extinguishing Media: Use water spray to cool fire-exposed containers. Use water only! Contact professional fire-fighters immediately.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 2; Special Hazard: OX

**6. Accidental Release Measures**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Avoid generating dusty conditions. Remove all sources of ignition. Carefully scoop up and place into appropriate disposal container.

Provide ventilation. Do not use combustible materials such as paper towels to clean up spill. Do not let this chemical enter the environment.

**7. Handling and Storage**

Handling: Minimize dust generation and accumulation. Avoid contact with skin and eyes. Avoid contact with clothing and other combustible materials.

Avoid ingestion and inhalation. Use with adequate ventilation. Use only in a chemical fume hood.

Storage: Do not store near combustible materials. Store in a cool, dry place. Store in a tightly closed container.

**8. Exposure Controls, Personal Protection**

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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 low. Use only under a chemical fume hood.

**Exposure Limits**

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Strontium nitrate	none listed	none listed	none listed

OSHA Vacated PELs: Strontium nitrate: No OSHA Vacated PELs are listed for this chemical.

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 a chemical apron. Wear appropriate 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.

**9. Physical and Chemical Properties**

Physical State: Crystals

Appearance: white

Odor: odorless

pH: 5.0 - 7.0 (5% aq.sol.)

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: 645 deg C

Freezing/Melting Point: 570 deg C

Decomposition Temperature: Not available.

Solubility: 660 g/l water (20°C)

Specific Gravity/Density: 2.990

Molecular Formula: Sr(NO<sub>3</sub>)<sub>2</sub>

Molecular Weight: 211.63

**10. Stability and Reactivity**

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation, excess heat, combustible materials, organic materials, exposure to moist air or water.

Incompatibilities with Other Materials: Reducing agents, strong acids, active metals, phosphorus, sulfur, combustible and flammable materials (e.g. alkyl resins, asphalt, gasoline, grease, methyl acetone, polystyrene, polyurethane).

Hazardous Decomposition Products: Nitrogen oxides.

Hazardous Polymerization: Has not been reported

**11. Toxicological Information**

RTECS#:

CAS# 10042-76-9: WK9800000

LD50/LC50:

CAS# 10042-76-9:

Oral, mouse: LD50 = 1028 mg/kg;

Oral, rabbit: LD50 = 3865 mg/kg;

Oral, rabbit: LD50 = 1600 mg/kg;

Oral, rat: LD50 = 1892 mg/kg;

Carcinogenicity:

CAS# 10042-76-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Other Studies:

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#### 12. Ecological Information

Ecotoxicity: No data available. No information available.  
 Environmental: Some plants have the ability to concentrate strontium.  
 Physical: No information available.  
 Other: Avoid entering into waters or underground water.

#### 13. Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.  
 RCRA P-Series: None listed.  
 RCRA U-Series: None listed.

#### 14. Transport Information

Shipping Name:	US DOT STRONTIUM NITRATE	Canada TDG STRONTIUM NITRATE
Hazard Class:	5.1	5.1
UN Number:	UN1507	UN1507
Packing Group:	III	III

#### 15. Regulatory Information

US FEDERAL  
 TSCA

CAS# 10042-76-9 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 10042-76-9: immediate, delayed, fire.

Section 313

This material contains Strontium nitrate (listed as Water Dissociable Nitrate Compounds), 99+%, (CAS# 10042-76-9) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 10042-76-9 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XN O

Risk Phrases:

R 22 Harmful if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 8 Contact with combustible material may cause fire.

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**MATERIAL SAFETY DATA SHEET (MSDS)****STRONTIUM NITRATE LR (ANHYDROUS)****Safety Phrases:**

- S 17 Keep away from combustible material.
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 10042-76-9: 1

Canada - DSL/NDL

CAS# 10042-76-9 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of C, D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 10042-76-9 is not listed on the Canadian Ingredient Disclosure List.

**16. Other Information**

**Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**