

MATERIAL SAFETY DATA SHEET

STRONTIUM NITRATE
CAROLINA BIOLOGICAL

Revised: 16/07/04
Replaces: 09/05/00
Printed: 27/11/07

1. PRODUCT DESCRIPTION

Product Name: Strontium Nitrate
Product Code(s): 89-2750, 89-2752, 84-0910, 85-0960, 85-0964
Size: Various
Chemical Name: Inorganic Salt
CAS Number: 10042-76-9
Formula: Sr(NO3)2
Synonyms: Strontium Nitrate Anhydrous
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components: Strontium Nitrate(CAS#10042-76-9)1005
TLV and PEL units: None established

3. HAZARD IDENTIFICATION

Emergency Overview: Contact with other material may cause fire or explosion.
May be harmful if swallowed. May be irritating to skin, eyes and mucous membranes.
Potential Health Effects:
Eyes: May cause irritation.
Skin: May cause irritation.
Ingestion: May cause gastrointestinal discomfort.
Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:
Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.
Ingestion - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.
Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): None
NFPA Rating: Health: 1
Fire: 0
Reactivity: 0

Extinguisher Media:

Use dry chemical, CO2 or appropriate foam.
Flammable Limits in Air % by Volume: N/A
Autoignition Temperature: N/A
Special Firefighting Procedures:

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Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Contain the release and eliminate its source, if this can be done without risk. Take up and containerize for proper disposal as described under Disposal.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Keep container closed and

protected against physical damage. Store in a cool area away from combustible, organic or other easily oxidizable substances.

Other Precautions: Do not breathe dust or get in eyes, on skin, or on clothing.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):

None needed under normal conditions of use with adequate ventilation. NIOSH approved equipment should be worn if PELs are exceeded.

Ventilation:

Local Exhaust:	Yes
Mechanical(General):	Yes
Special:	No
Other:	No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab coat, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight:	211.63
Melting Point:	570C
Boiling Point:	645C
Vapor Pressure:	0 @ 20C
Vapor Density(Air=1):	N/A
Specific Gravity(H2O=1):	2.99
Percent Volatile by Volume:	None
Evaporation Rate(H2O=1):	N/A
Solubility in Water:	Soluble
Appearance and Odor:	White crystals

10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Extreme heat, grinding, shock.

Incompatibility(Materials to Avoid): Organic materials, combustibles, reducing materials

Hazardous Decomposition Products: NOx

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Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: oral-rat LD50: 2750 mg/kg

Effects of Overexposure: The principal chronic effect of strontium exposure are inhibition of bone calcification with attendant weakness and changes in the cardiovascular, blood and nervous systems. Kidney and liver involvement has been reported.

Acute: See section 3

Chronic: Material is not listed (IARC, NTP, OSHA) as cancer causing agent.

Conditions Aggravated by Overexposure: Person with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effect of the substance.

Target Organs: Cardiovascular, blood, nervous systems, mucous membranes, skin eyes.

Primary Route(s) of Entry: Inhalation, ingestion, eyes, skin.

12. ECOLOGICAL DATA

EPA Waste Numbers: D001

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Description: Strontium Nitrate, 5.1, UN1507, III

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals Name List	Chemical Category	CERCLA Sec. 103 RQ lbs.	RCRA Sec.
261.33					

Strontium Nitrate No No No No No

16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the

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Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists
CAS Number..Chemical Abstracts Service Number
CERCLA.....Comprehensive Environmental Response, Compensation, and
Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
mppcf.....million particles per cubic foot
N/A.....Not Available
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act