


SECTION I NAME		24 HOUR EMERGENCY ASSISTANCE	
Product	STRONTIUM NITRATE	 <p>CHEMTREC 800-424-9300 Day 716-226-6177 Night 716-334-4222</p> <p>NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4</p> <p>HMIS * Health 1 Fire 0 Reactivity 3</p>	
Chemical Synonyms	Strontium Nitrate		
Formula	Sr(NO ₃) ₂		
Unit(s) Size	100, 500 grams; 2.5 Kg.		
C.A.S. No.	10042-76-9		

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES		
Principal Hazardous Component(s)	%	TLV Units
Strontium Nitrate	100%	See Section V.
DANGER! STRONG OXIDIZER! HARMFUL		
IF SWALLOWED. CONTACT WITH OTHER		
MATERIALS MAY CAUSE FIRE OR EXPLOSION.		

SECTION III PHYSICAL DATA			
Melting Point (°F)	570°C (1058°F)	Specific Gravity (H ₂ O = 1)	2.986 at 20°C
Boiling Point (°F)	Decomposes 645°C (1193°F)	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (= 1)	Non-volatile (NA).
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	66 grams in 100 mL. water at 20°C.		
Appearance & Odor	White granules, crystals or powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA			
Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA
Extinguisher Media	Water spray or fog; carbon dioxide (CO ₂); dry chemical (ABC).		

SPECIAL FIREFIGHTING PROCEDURES

Flood with large volumes of water. Material may melt or fuse, application of water may scatter molten material. In fire conditions, wear a NIOSH-approved self-contained breathing apparatus.

(1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5, GUIDE PAGE NO. 35)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Spontaneous chemical reaction with low flash point organics or reducing agents or heatshock. Increases the flammability of any combustible material. Fire or excessive heat may produce hazardous decomposition products. When burning produces brilliant red fire.

D.O.T. **STRONTIUM NITRATE 5.1 UN 1507**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

Threshold Limited Value None established for this product by (ACGIH 1983). WA: 5 mg/m³ as Strontium (AIR). Toxicity Data: LD50 i.p. in rats: 540 mg/kg.

Effects of Overexposure Mild chemical burns to eyes and slight irritation to skin and mucous membranes. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

EYES: Flush thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **SKIN:** Flush with water, then wash with soap and water. **INHALATION:** Remove to fresh air. If ill effects develop, get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability Unstable Stable **Conditions to Avoid** Can be explosive when mixed with reducing agents, mixtures may detonate by heat and shock.

Incompatibility (Materials to Avoid) Reducing agents, combustible materials, flame, heat.

Hazardous Decomposition Products Oxides of nitrogen.

Hazardous Polymerization **Conditions to Avoid** Not applicable.

May Occur Will Not Occur

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Recover for use if not contaminated. Sweep up and place in a suitable container for disposal. Small quantities may be dissolved in water and flushed to sewer with large amounts of water.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in an approved chemical landfill or contract with an approved and licensed disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH-approved dust mask or respirator.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Goggles, smock, apron, proper gloves, fire extinguisher, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from sparks, flame and reducing agents. Wash thoroughly after handling. Keep container tightly closed when not in use.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals. Use with adequate ventilation. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Rev. No. No. 3 Date 2/3/93 Approved Alexander A. Piccirilli Chemical Safety Coordinator AP

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