

# STRONTIUM NITRATE

STN

CAUTIONARY RESPONSE INFORMATION				4. FIRE HAZARDS	7. SHIPPING INFORMATION
Common Synonyms	Solid powder	White	Odorless	<p><b>4.1 Flash Point:</b> Not flammable.</p> <p><b>4.2 Flammable Limits in Air:</b> Not pertinent.</p> <p><b>4.3 Fire Extinguishing Agents:</b> Use extinguishing agents appropriate for the surrounding fire.</p> <p><b>4.4 Fire Extinguishing Agents Not to Be Used:</b> Not pertinent.</p> <p><b>4.5 Special Hazards of Combustion Products:</b> Yields toxic gaseous oxides of nitrogen when involved in fire.</p>	<p><b>7.1 Grades of Purity:</b> 99%; technical grades.</p> <p><b>7.2 Storage Temperature:</b> Cool.</p> <p><b>7.3 Inert Atmosphere:</b> None required.</p> <p><b>7.4 Venting:</b> Not listed.</p> <p><b>7.5 IMO Pollution Category:</b> Currently not available</p> <p><b>7.6 Ship Type:</b> Currently not available</p> <p><b>7.7 Barge Hull Type:</b> Currently not available</p>
Keep people away. Shut off ignition sources and call fire department. Notify local health and pollution control agencies. Protect water intakes.				<p><b>4.6 Behavior in Fire:</b> While not flammable, as a strong oxidizer will increase the intensity of combustion. May explode on shock or exposure to intense heat.</p> <p><b>4.7 Auto Ignition Temperature:</b> Not pertinent.</p> <p><b>4.8 Electrical Hazards:</b> Not pertinent.</p> <p><b>4.9 Burning Rate:</b> Not pertinent.</p> <p><b>4.10 Adiabatic Flame Temperature:</b> Not pertinent.</p> <p><b>4.11 Stoichiometric Air to Fuel Ratio:</b> Not pertinent.</p> <p><b>4.12 Flame Temperature:</b> Not pertinent.</p> <p><b>4.13 Combustion Molar Ratio (Reactant to Product):</b> Not pertinent.</p> <p><b>4.14 Minimum Oxygen Concentration for Combustion (MOCC):</b> Not listed</p>	<p><b>8. HAZARD CLASSIFICATIONS</b></p> <p><b>8.1 49 CFR Category:</b> Oxidizer</p> <p><b>8.2 49 CFR Class:</b> 5.1</p> <p><b>8.3 49 CFR Package Group:</b> III</p> <p><b>8.4 Marine Pollutant:</b> No</p> <p><b>8.5 NFPA Hazard Classification:</b> Not listed</p> <p><b>8.6 EPA Reportable Quantity:</b> Not listed.</p> <p><b>8.7 EPA Pollution Category:</b> Not listed.</p> <p><b>8.8 RCRA Waste Number:</b> Not listed</p> <p><b>8.9 EPA FWPCA List:</b> Not listed</p>
Fire	Not flammable. May cause fire and explode on contact with combustibles. POISONOUS GASES MAY BE PRODUCED IN FIRE. Wear goggles and self-contained breathing apparatus. Use extinguishing agents appropriate for the surrounding fire.				<p><b>9. PHYSICAL &amp; CHEMICAL PROPERTIES</b></p> <p><b>9.1 Physical State at 15° C and 1 atm:</b> Solid</p> <p><b>9.2 Molecular Weight:</b> 211.63</p> <p><b>9.3 Boiling Point at 1 atm:</b> 1193°F = 645°C = 918°K</p> <p><b>9.4 Freezing Point:</b> 1058°F = 570°C = 843°K</p> <p><b>9.5 Critical Temperature:</b> Currently not available</p> <p><b>9.6 Critical Pressure:</b> Currently not available</p> <p><b>9.7 Specific Gravity:</b> 2.98</p> <p><b>9.8 Liquid Surface Tension:</b> Currently not available</p> <p><b>9.9 Liquid Water Interfacial Tension:</b> Currently not available</p> <p><b>9.10 Vapor (Gas) Specific Gravity:</b> Currently not available</p> <p><b>9.11 Ratio of Specific Heats of Vapor (Gas):</b> Currently not available</p> <p><b>9.12 Latent Heat of Vaporization:</b> Currently not available</p> <p><b>9.13 Heat of Combustion:</b> Currently not available</p> <p><b>9.14 Heat of Decomposition:</b> Currently not available</p> <p><b>9.15 Heat of Solution:</b> Currently not available</p> <p><b>9.16 Heat of Polymerization:</b> Not pertinent.</p> <p><b>9.17 Heat of Fusion:</b> Currently not available</p> <p><b>9.18 Limiting Value:</b> Currently not available</p> <p><b>9.19 Reid Vapor Pressure:</b> Currently not available</p>
Exposure	CALL FOR MEDICAL AID.  SOLID Flush exposed areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting. IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.				<p><b>5. CHEMICAL REACTIVITY</b></p> <p><b>5.1 Reactivity with Water:</b> No reaction</p> <p><b>5.2 Reactivity with Common Materials:</b> Incompatible with oxidizable substances, organic materials, or combustible materials.</p> <p><b>5.3 Stability During Transport:</b> Stable.</p> <p><b>5.4 Neutralizing Agents for Acids and Caustics:</b> Not pertinent.</p> <p><b>5.5 Polymerization:</b> Will not occur.</p> <p><b>5.6 Inhibitor of Polymerization:</b> Not pertinent.</p>
Water Pollution	Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.				<p><b>6. WATER POLLUTION</b></p> <p><b>6.1 Aquatic Toxicity:</b> Currently not available</p> <p><b>6.2 Waterfowl Toxicity:</b> Currently not available</p> <p><b>6.3 Biological Oxygen Demand (BOD):</b> Currently not available</p> <p><b>6.4 Food Chain Concentration Potential:</b> Currently not available</p> <p><b>6.5 GESAMP Hazard Profile:</b> Not listed</p>
<p><b>1. CORRECTIVE RESPONSE ACTIONS</b></p> <p>Stop discharge Dilute and disperse</p> <p><b>2. CHEMICAL DESIGNATIONS</b></p> <p>2.1 CG Compatibility Group: Not listed. 2.2 Formula: Sr(NO<sub>3</sub>)<sub>2</sub> 2.3 IMO/UN Designation: Currently not available 2.4 DOT ID No.: 1507 2.5 CAS Registry No.: 10042-76-9 2.6 NAERG Guide No.: 140 2.7 Standard Industrial Trade Classification: 52359</p> <p><b>3. HEALTH HAZARDS</b></p> <p>3.1 Personal Protective Equipment: Rubber gloves, goggles, laboratory coat. 3.2 Symptoms Following Exposure: Dust is irritating to skin, eyes, and respiratory system. 3.3 Treatment of Exposure: Call for medical aid. EYES: Rinse with water. SKIN: Wash with water for 15 minutes. INGESTION: Drink water, milk, or activated charcoal; then induce vomiting. 3.4 TLV-TWA: Not listed. 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Grade 2; LD<sub>50</sub> = 2.75 g/kg (rat) 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Ingestion of nitrates has been implicated with cancer increase. 3.10 Vapor (Gas) Irritant Characteristics: Not pertinent. 3.11 Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin. 3.12 Odor Threshold: Odorless 3.13 IDLH Value: Not listed. 3.14 OSHA PEL-TWA: Not listed. 3.15 OSHA PEL-STEL: Not listed. 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA AEGL: Not listed</p>				<p>NOTES</p>	

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9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
	NOT PERTINENT		NOT PERTINENT		NOT PERTINENT		NOT PERTINENT

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
32 192	40.000 100.000		NOT PERTINENT		NOT PERTINENT		NOT PERTINENT