SAFETY DATA SHEET: STRONTIUM NITRATE

1. IDENTIFICATION

Product Name: STRONTIUM NITRATE
Synonyms: Strontium (II) nitrate; Nitric acid strontium salt
Formula and Formula Weight: Sr(NO₃)₂ 211.63
Integra numbers beginning with: S841.10
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

INTEGRA Chemical Company
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

OSHA Classification:  
Acute Toxicity - Oral 4 Harmful if swallowed.
Skin Corrosion/Irritation 2 Causes skin irritation.
Eye Damage/Irritation 2A Causes serious eye irritation.
Specific Target Organ Toxicity (single exposure) 3 May cause respiratory irritation.
Oxidizing Solids 3 May intensify fire; oxidizer.

Precautionary Statements

Prevention:
Keep away from heat.
Keep and store away from clothing, combustible materials.
Take any precaution to avoid mixing with combustibles.
Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapors, spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves, eye protection, face protection.

Response
If swallowed: Call a poison center, doctor if you feel unwell.
If on skin: Wash with plenty of water.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a poison center, doctor if you feel unwell.
Specific treatment (see first aid section on this label)
Rinse mouth.
If skin irritation occurs: Get medical advice, attention.
If eye irritation persists: Get medical advice, attention.
Take off contaminated clothing and wash it before reuse.

Storage
Store locked up in a well ventilated place. Keep container tightly closed.

Disposal
Dispose of contents, container in accordance with all governmental regulations.

Hazards Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>CAS #</th>
<th>% Weight</th>
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<tbody>
<tr>
<td>Strontium nitrate</td>
<td>Strontium (II) nitrate; Nitric acid strontium salt</td>
<td>10042-76-9</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Inhalation:
Remove person to fresh air and keep comfortable for breathing.

Eye Contact:
Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek immediate medical attention.
Skin Contact: Wash with soap and water. Seek medical attention if irritation develops.
Ingestion: Rinse mouth and give victim large quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Additional notes: Symptoms and effects include skin, eye, respiratory, gastrointestinal irritation; nausea and vomiting.

5. FIRE-FIGHTING MEASURES
Extinguishing Media: Water spray, carbon dioxide, dry chemical or foam.
Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Specific Hazards: Strong oxidizer. Contact with combustible or flammable materials can cause fire or explosion.

6. ACCIDENTAL RELEASE MEASURES
Spill Procedures: Remove all potential ignition sources. Prevent spread of spill. Wear suitable protective equipment. Sweep or scoop into disposal container in a manner that minimizes dust dispersion. Flush residues with water.

7. HANDLING AND STORAGE
Incompatible Materials: Incompatible with strong acids and strong oxidizers. Reducing agents, organic compounds, halogens.
Storage and Handling: Store locked up in a cool, dry, well-ventilated area dedicated to the storage of oxidizers. Keep away from incompatible materials, especially flammable or combustible materials. Keep containers tightly closed and protect them from physical damage. Protect material from exposure to air and moisture.
Keep away from heat.
Keep and store away from clothing, combustible materials.
Take any precaution to avoid mixing with combustibles.
Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapors, spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves, eye protection, face protection.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION
OSHA & ACGIH Exposure Limits:
Strontium nitrate None identified
Engineering Controls: Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.
Respiratory Protection: If use generates annoying or irritating dusts, mists or vapors, use a NIOSH approved respirator with a particulate filter.
Skin/Eye Protective Equipment: Safety goggles, protective clothing and gloves appropriate for the risk of exposure.
Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers.
Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance: White powder or granules
Odor: No odor
Odor Threshold: Not available
pH: 5.0-7.0 at 25 °C
Melting/Freezing Point: 570 °C
Initial Boiling Point and Boiling Range: 645 °C
Flash Point: Not available
Evaporation Rate: Not available
Flammability: Not available
Flammable or Explosive Limits (% by volume in air) Upper: Not available Lower: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Relative Density: 2.98 g/cc
Solubility: 71g/100ml water @18°C
Partition Coefficient: n-octanol/water Not available
Auto-Ignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity: Not available

10. STABILITY AND REACTIVITY
Reactivity: No information available
Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur
Conditions to Avoid: Heat, sparks and open flame.
Incompatibles: Incompatible with strong acids and strong oxidizers. Reducing agents, organic compounds, halogens.
11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:

Inhalation: Inhalation may irritate the nose, throat and upper respiratory tract.
Skin Contact: Contact may cause irritation or burns.
Eye Contact: Contact may burn or damage the eyes.
Ingestion: Ingestion of large quantities may cause gastrointestinal irritation, nausea and vomiting.

Chronic Effects: Repeated exposure has caused damage to heart muscle, lungs, liver, kidneys and blood-forming organs. Has been shown to effect the nervous system in animals. Repeated exposure causes strontium nitrate to accumulate in the body.

Target Organs: No information available

Additional Effects: May aggravate pre-existing respiratory, skin, liver and kidney conditions.

Reproductive Effects: No information available

Carcinogenicity: Strontium nitrate is listed by the IARC as Group 2A, Probable Human Carcinogen [Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation].

Toxicity Data:

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50 (oral, mouse)</th>
<th>mg/kg</th>
</tr>
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<tbody>
<tr>
<td>Strontium nitrate</td>
<td></td>
<td>1028</td>
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</tbody>
</table>

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data: No information available
Terrestrial Toxicity Data: No information available

Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility in soil: No information available
Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

This product is a regulated material for domestic ground transportation, per CFR Title 49.

<table>
<thead>
<tr>
<th>UN Number</th>
<th>Proper Shipping Name</th>
<th>Packing Group</th>
<th>Hazard Class</th>
<th>Environmental hazards</th>
<th>Special precautions</th>
<th>Bulk transport</th>
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<td>Strontium nitrate</td>
<td>III</td>
<td>5.1</td>
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15. REGULATORY INFORMATION

Strontium nitrate is listed in the TSCA inventory and in SARA 313 (as nitrate compounds).

16. OTHER INFORMATION

OSHA SDS #: 26517 rev 101 3.27.2015

NE = Not established, NA = Not applicable or Not available
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***** END OF SDS *****