

# Material Safety Data Sheet

## Section 1. Product and Company Identification

<b>Product Name</b>	<b>Sodium Nitrate, GR</b>	<b>Product Code</b>	SX0655
<b>Manufacturer</b>	EM Science A Division of EM Industries P.O. Box 70 480 Democrat Road Gibbstown, N.J. 08027	<b>Effective Date</b>	10/29/2001
<b>For More Information Call</b>		<b>In Case of Emergency Call</b>	
856-423-6300 Technical Service Monday-Friday: 8:00 AM - 5:00 PM		800-424-9300 CHEMTREC (USA) 613-996-6666 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week	
<b>Synonym</b>	SODA NITER		
<b>Material Uses</b>	Analytical reagent.		
<b>Chemical Family</b>	Inorganic salt.		

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## Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
SODIUM NITRATE	7631-99-4	100

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## Section 3. Hazards Identification

<b>Physical State and Appearance</b>	Solid. (Powdered solid. Granular solid. Deliquescent crystals solid.)
<b>Emergency Overview</b>	WARNING! OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.
<b>Routes of Entry</b>	Inhalation. Ingestion.

### Potential Acute Health Effects

<b>Eyes</b>	May be hazardous in case of eye contact (irritant).
<b>Skin</b>	May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
<b>Inhalation</b>	May be hazardous in case of inhalation (lung irritant).
<b>Ingestion</b>	May be hazardous in case of ingestion.

### Potential Chronic Health Effects

**Carcinogenic Effects** This material is not known to cause cancer in animals or humans.

Additional information See Toxicological Information (section 11)

**Medical Conditions Aggravated by Overexposure:** Repeated or prolonged exposure is not known to aggravate medical condition.

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#### Section 4. First Aid Measures

**Eye Contact** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

**Skin Contact** In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Inhalation** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

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#### Section 5. Fire Fighting Measures

**Flammability of the Product** Non-flammable.

**Auto-ignition Temperature** Not applicable.

**Flash Points** Not applicable.

**Flammable Limits** Not applicable.

**Products of Combustion** Not available.

**Fire Hazards in Presence of Various Substances** Not applicable.

**Explosion Hazards in Presence of Various Substances** Risks of explosion of the product in presence of static discharge: No.  
Risks of explosion of the product in presence of mechanical impact: No.

**Fire Fighting Media and Instructions** Not applicable.

**Protective Clothing (Fire)** Not applicable.

**Special Remarks on Fire Hazards** Not available.

**Special Remarks on Explosion Hazards** Not available.

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#### Section 6. Accidental Release Measures

**Small Spill and Leak** Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill and Leak** Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

**Spill Kit Information** No specific spill kit required for this product.

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#### Section 7. Handling and Storage

<b>Handling</b>	Store in tightly closed container. Avoid contact with combustible materials. Do not breathe dust. Do not ingest. Avoid contact with skin and eyes.
<b>Storage</b>	Keep container in a cool, well-ventilated area. Separate from acids, alkalis, reducing agents and combustibles.

### Section 8. Exposure Controls/Personal Protection

**Engineering Controls** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection**

**Eyes** Splash goggles.

**Body** Lab coat.

**Respiratory** Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

**Hands** Gloves.

**Feet** Not applicable.

**Personal Protection in Case of a Large Spill** Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Product Name**

**Exposure Limits**

SODIUM NITRATE

Not available.

### Section 9. Physical and Chemical Properties

<b>Odor</b>	Odorless.
<b>Color</b>	White.
<b>Physical State and Appearance</b>	Solid. (Powdered solid. Granular solid. Deliquescent crystals solid.)
<b>Molecular Weight</b>	85 g/mole
<b>Molecular Formula</b>	N-O3.Na
<b>pH</b>	Not available.
<b>Boiling/Condensation Point</b>	Decomposition temperature: 379.9°C (715.8°F)
<b>Melting/Freezing Point</b>	306.7°C (584.1°F)
<b>Specific Gravity</b>	Not available.
<b>Vapor Pressure</b>	Not available.
<b>Vapor Density</b>	Not available.

<b>Odor Threshold</b>	Not available.
<b>Evaporation Rate</b>	Not available.
<b>LogKow</b>	Not available.
<b>Solubility</b>	Soluble in water.

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### Section 10. Stability and Reactivity

<b>Stability and Reactivity</b>	The product is stable.
<b>Conditions of Instability</b>	Not available.
<b>Incompatibility with Various Substances</b>	Reactive with reducing agents, combustible materials.
<b>Rem/Incompatibility</b>	Not available.
<b>Hazardous Decomposition Products</b>	Not available.
<b>Hazardous Polymerization</b>	Will not occur.

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### Section 11. Toxicological Information

RTECS Number:

Sodium Nitrate

WC5600000

<b>Toxicity</b>	Acute oral toxicity (LD50): 1267 mg/kg [Rat].
<b>Chronic Effects on Humans</b>	Not available.
<b>Acute Effects on Humans</b>	May be hazardous in case of eye contact (irritant). May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. May be hazardous in case of inhalation (lung irritant). May be hazardous in case of ingestion.
<b>Synergetic Products (Toxicologically)</b>	Not available.
<b>Irritancy</b>	Draize Test: Not available.
<b>Sensitization</b>	Not available.
<b>Carcinogenic Effects</b>	This material is not known to cause cancer in animals or humans.
<b>Toxicity to Reproductive System</b>	Tests on laboratory animals for reproductive effects are cited in Registry of Toxic Effects on Chemical Substances (RTECS).
<b>Teratogenic Effects</b>	Not available.
<b>Mutagenic Effects</b>	Tests on laboratory animals for mutagenic effects are cited in Registry of Toxic Effects of Chemical Substances (RTECS).

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### Section 12. Ecological Information

<b>Ecotoxicity</b>	Not available.
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**BOD5 and COD** Not available.

**Toxicity of the Products of Biodegradation** The products of degradation are less toxic than the product itself.

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### Section 13. Disposal Considerations

**EPA Waste Number** D001

**Treatment** Specified Technology - Contact your local permitted waste disposal site (TSD) for permissible treatment sites. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

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### Section 14. Transport Information

**DOT Classification** Not available.

**TDG Classification** Not available.

**IMO/IMDG Classification** Not available.

**ICAO/IATA Classification** Not available.

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### Section 15. Regulatory Information

**U.S. Federal Regulations** TSCA 8(b) inventory: SODIUM NITRATE

SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: SODIUM NITRATE  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: SODIUM NITRATE:  
Fire Hazard, Delayed (Chronic) Health Hazard  
SARA 313 toxic chemical notification and release reporting: SODIUM NITRATE

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

**WHMIS (Canada)** CLASS C: Oxidizing material.

CEPA DSL: SODIUM NITRATE

#### International Regulations

**EINECS** SODIUM NITRATE 231-554-3

**DSCL (EEC)** R22- Harmful if swallowed.  
R36/37/38- Irritating to eyes, respiratory system and skin.

**International Lists** Australia (NICNAS): SODIUM NITRATE

Japan (MITI): SODIUM NITRATE

Korea (TCCL): SODIUM NITRATE

Philippines (RA6969): SODIUM NITRATE

China: No products were found.

**State Regulations**

Pennsylvania RTK: SODIUM NITRATE: (generic environmental hazard)

Massachusetts RTK: SODIUM NITRATE

New Jersey: SODIUM NITRATE

California prop. 65: No products were found.

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**Section 16. Other Information**

**National Fire  
Protection  
Association (U.S.A.)**

Health

0

Fire Hazard

1

0

Reactivity

OXY

Specific Hazard

**Changed Since Last  
Revision**

+

**Notice to Reader**

**The statements contained herein are based upon technical data that EM Industries believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EM INDUSTRIES MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS**