

# Material Safety Data Sheet

## AG Specialties Brand Sodium Nitrate

### Section 1 – Product and Company Identification

Product Name: Sodium Nitrate  
Trade Names: AG SPECIALTIES BRAND Sodium Nitrate  
Synonyms: Sodium Potassium Nitrate, Salt Peter  
MSDS Creation Date: January 2006  
MSDS Current revision date: None  
Distributed by: AG Specialties LLC; 12220 SW Grant Ave; Tigard, OR 97223; 877-601-7670  
EMERGENCY: CHEMTREC (24 Hour Emergency Response) 1-800-424-9300

### Section 2 – Composition / Information on Ingredients

Ingredient Name	CAS Number	%wt
Sodium Nitrate	7631-99-4	>99

### Section 3 – Hazards Identification

**Emergency overview:** Toxic by ingestion, content in cured meats, fish and other food products restricted.

**NFPA Rating:** Health=2, Fire=0, Reactivity=3 (Oxidizer)

**Potential Health Effects:**

*Inhalation:* May cause irritation of the respiratory tract, no data is available on chronic exposure.

*Skin Contact:* May cause irritation, chronic exposure to irritants may cause dermatitis.

*Eye Contact:* Contact may cause irritation, possibly severe. Additional effects based on duration may include irritation.

*Ingestion:* May cause gastroenteritis and abdominal pains. Other symptoms may include dizziness, bloody diarrhea, convulsions and collapse. Purging and diureses can be expected. Small repeated doses may cause headache and mental impairment. Rare cases of nitrates being converted to the more toxic nitrites have been reported, mostly with infants.

*Long-Term and/or delayed effects:* Reproductive effects have been reported in animals.

**CARCINOGEN STATUS:** OSHA: Not listed NTP: Not listed IARC: Not listed

Sodium Nitrate has not been directly implicated as a carcinogen. A constant oral intake of nitrate containing foods or water could lead to formation of carcinogenic N-Nitroso compounds.

### Section 4 – First aid Measures

*Inhalation:* Remove from exposure area to fresh air immediately. If breathing is difficult, oxygen may be administered by a qualified operator. Keep person warm and at rest. Get medical attention for irritation or any other symptom.

*Skin Contact:* Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent and rinse with water for 15 minutes until no evidence of product remains. Get medical assistance for irritation, or any other symptom.

*Eye Contact:* Flush eyes immediately with large amounts of water or normal saline solution, occasionally lifting upper and lower lids until no evidence of product remains (approximately 15-20 minutes). Cover with sterile bandages. Get medical attention immediately.

*Ingestion:* Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. GET MEDICAL ATTENTION. Maintain airway, blood pressure, and respiration.

## Section 5 – Fire-Fighting Measures

*Flash Point:* None

*Auto Ignition Temperature:* Not Determined

*Fire and Explosion Hazard:* STRONG OXIDIZER

*Extinguishing Media:* Use any standard agent suitable for surrounding structural fire or for other chemicals that may be involved.

*Firefighting:* Wear appropriate self-contained positive pressure breathing apparatus. Dike area to prevent runoff and contamination of water sources.

*Hazardous Combustion Products:* N/A

## Section 6 – Accidental Release Measures

*In Case of Spill:* Pick up dry spills by scooping, shoveling or vacuuming and place into containers for reuse or disposal.

Wear respirator, protective clothing and gloves. Keep unnecessary people away. Obey all federal, state, and local regulations when storing or disposing of ferrous sulfate.

## Section 7 – Handling and Storage

*Storage:* Store in a cool, dry place.

*Normal Handling:* Avoid contact with skin and eyes. Avoid dispersion of dust into air. Protect against physical damage and moisture. Isolate from any source of heat or ignition. Avoid storage on wood floors. Separate from incompatibles, combustibles, organic or other readily oxidizable materials. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product when handling empty containers.

## Section 8 – Exposure Controls / Personal Protection

### Exposure Limits

Ingredient

OSHA PEL

ACGIH TLV

OTHER VALUES

No ingredients

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\*= ACGIH Biological Exposure Value

\*\*= AIHA Workplace Environmental Exposure Level

*Ventilation:* Use of local exhaust is recommended at product transfer points and where dusty conditions exist.

*Eye Protection:* Wear safety glasses. Use of splash shields or safety goggles is recommended for very dusty conditions.

*Clothing:* Wear trousers and long sleeved shirt to avoid skin contact with this product. Clean work clothing before taking them home (preferred) or launder separately from household laundry.

*Gloves:* Wear cotton or canvas protective gloves to prevent contact with this product.

*Respirator:* For normal product handling, use an NIOSH approved air-purifying dust respirator. For extremely dusty conditions, the use of a full-face air purifying particulate respirator is recommended.

**EMERGENCY WASH FACILITIES:** Where there is the potential that an employee's eyes and/or skin may be exposed to this product, the employer should provide an eye wash fountain and safety shower or another source of running water within the immediate work area.

## Section 9 – Physical and Chemical Properties

*Description:* White/Semi White prills

*Molecular Formula:* NaNO<sub>3</sub>

*Molecular Weight:* 85.01

*ph:* Aqueous solution it neutral

*Melting Point:* 308C / 586F

*Boiling Point:* 380C / 716F

*Vapor Pressure:* Not applicable

*Water Solubility:* 81.5 g/100 g water @ 15C / 59F

*Solvent Solubility:* No information available

*Specific Gravity:* 2.26

## Section 10 – Stability and Reactivity

*Reactivity:* Stable under normal temperatures and pressures.

*Conditions to Avoid:* Heat, flame, ignition sources, shock, friction, incompatibles.

*Incompatibilities:* Reacts with acids to emit toxic fumes of nitrogen dioxide. Contact with the following may cause an explosion: barium rhodanide, boron phosphide, cyanides, sodium thiosulfate, sodium hypophosphite, sulfur plus charcoal, powdered aluminum and aluminum oxide. Fibrous organic material such as jute, wood, and similar cellulosic materials can become highly combustible by nitrate impregnation.

*Hazardous Decomposition:* Emits nitrous oxides when heated to decomposition.

*Polymerization:* Will not occur

## Section 11 – Toxicological Information

Toxicological information listed below is for Sodium Nitrate

*Acute Toxicity:*

LD50: 4.3 g/kg, oral, rat

Local Effects: Corrosive to eyes, ingestion, skin irritant, mucous membranes.

Eyes: Irritant

Inhalation: Inhalation of dust may cause irritation of the respiratory tract with sore throat.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. GET MEDICAL ATTENTION. Maintain airway, blood pressure, and respiration.

*Delayed / Chronic:*

CARCINOGEN STATUS: Data not available.

CHRONIC EXPOSURE: Reproductive effects have been reported in animals.

## Section 12 – Ecological Information

*Acute Aquatic Toxicity:* No data available

*Degradability:* No data available

*Log Bioconcentration Factor (BCF):* No data available

*Log Octanol/Water partition coefficient:* No data available

## Section 13 – Disposal Considerations

Sweep up and repackage or place in a receptacle for future disposal or use in accordance with any and all federal, state, or local regulations.

## Section 14 – Transport Information

This product is not regulated in surface transportation in non-bulk quantities. The information below is for shipments exceeding 1,000 pounds in a single package, container, truck, or railcar.

*US DOT Shipping name:* Sodium Nitrate, Hazard Class 5.1, UN 1499, PG III

*US DOT Hazard Class:* 5.1

*US DOT Identification Number:* UN 1499

*US DOT Packing Group:* III

*US DOT Label Code:* 5.1

*Reportable Quantity:* 12x25lb

## Section 15 – Regulatory Information

**TSCA Status:** All ingredients are listed on the TSCA Inventory of Chemical Substances.

**Other TSCA Issues:** None

**SARA 311 Classification:** Not Listed.

**SARA 313 Notification:** There are no ingredients on the SARA 313 reporting list.

**CERCLA RQ's and TPQ's:** Sodium Nitrate has a reportable quantity (RQ) of 12x25 lbs.

**California Proposition 65:** No data available

**Canadian Inventory:** All ingredients are listed on the Canadian Domestic Substances List.

**WHMIS:** This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. Classification: D2B

## Section 16 – Other Information

**NFPA Ratings:** Health: 2, Flammability: 0, Reactivity: 3 (Oxidizer)

**Label Hazard Warning:** WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

**Label Precautions:**

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Avoid breathing dust.

Use with adequate ventilation.

**Label First Aid: Inhalation:** Remove from exposure area to fresh air immediately. If breathing is difficult, oxygen may be administered by a qualified operator. Keep person warm and at rest. Get medical attention for irritation or any other symptom.

**Skin Contact:** Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent and rinse with water for 15 minutes until no evidence of product remains. Get medical assistance for irritation, or any other symptom.

**Eye Contact:** Flush eyes immediately with large amounts of water or normal saline solution, occasionally lifting upper and lower lids until no evidence of product remains (approximately 15-20 minutes). Cover with sterile bandages. Get medical attention immediately.

**Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. GET MEDICAL ATTENTION. Maintain airway, blood pressure, and respiration.

**Product Use:** Fertilizer

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