

# Sodium Nitrate

## Safety Data Sheet

### 1. Product and Company

Product name: Sodium Nitrate

Synonym: Nitric Acid Sodium Salt, Chile Saltpeter, Cubic Saltpeter

CAS-No.: 7631-99-4

Company:

HMIS Rating	
Health	3
Flammability	0
Reactivity	1
Personal Protection	E

Telephone:

Fax:

Emergency telephone number

Emergency Phone #: Chemtrec US: 800-424-9300  
ChemTel International: +1-813-248-0585

### 2. Hazards

GHS Classification Oxidizing solids (Category 3), H272  
Eye irritation (Category 2A), H319

#### GHS Label elements

Pictogram(s)



Signal word **WARNING**

Hazard statement(s)

H272 May intensify fire; oxidizer.  
H319 Causes serious eye irritation.

Precautionary statement(s)

P210 Keep away from heat.  
P220 Keep/Store away from clothing/ combustible materials.  
P221 Take any precaution to avoid mixing with combustibles.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face protection.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

None.

### 3. Composition/Ingredients

Substance  
Formula:  $\text{NaNO}_3$   
Molecular weight: 84.99 g/mol  
CAS-No.: 7631-99-4

Material	CAS	%	OSHA	ACGIH
Sodium Nitrate	7631-99-4	100%	15 mg/m <sup>3</sup> as Nuisance Dust	15 mg/m <sup>3</sup> as Nuisance Dust

### 4. First Aid

**First Aid For Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**First Aid For Skin:** In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

**First Aid For Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**First Aid For Ingestion:** If swallowed, call a physician immediately.

### 5. Fire Data

Flammability: Non-Flammable  
Flash Points: Not Applicable  
Auto-Ignition: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media: Dry Chemical, Carbon Dioxide, Halon and Water Spray

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes Strong Oxidizer.

Fire/Explosion Hazards: Contact with other material may cause fire. Emits toxic fumes under fire conditions. Mixtures of nitrates and organic materials can be explosive under fire conditions.

## 6. Accidental Release

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.

## 7. Handling And Storage

Storage Temperatures: Store at ambient temperature

Shelf Life: Unlimited in tightly sealed container

Special Sensitivity: None.

Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials. Reseal containers immediately after use. Store away from food and beverages.

## 8. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.

Skin Protection: PVC gloves with impervious boots, apron or coveralls. Wash hands and face before eating, drinking or using tobacco.

Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

Additional Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe handling of hazardous chemicals.

## 9. Physical And Chemical Properties

Physical Form: Prill or powder

Color: White

Odor: Odorless

Molecular Weight: 84.99 g/mol

Boiling Point: Decomposes at 380°C

Melting/Freezing Point: 306.8°C

Solubility In Water: 92.1 g/100mL @25°C

Specific Gravity: 2.26

## 10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibilities: Strong reducing agents, finely powdered metals, strong acids. Protect from moisture.

Instable Conditions: Excessive temperatures (see Incompatibilities).

Decomposition Temperature: Decomposes 380°C

Decomposition products: Oxides of sodium and nitrogen

## 11. Toxicological Information

RTECS Number: WC5600000

Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: Orl-Man LD50: 114 mg/kg Orl-Chd LD50: 22500 ug/kg Orl-Rat LD50: 1267 mg/kg  
Ivn-Mus LD50: 175 mg/kg Orl-Rbt LD50: 2680 mg/kg

Chronic Toxic Effects: This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.

Acute Toxic Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness.

Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

## 12. Ecological Information

Ecotoxicity: Not available at this time.

## 13. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

## 14. Transportation Information

Proper Shipping Name: Sodium Nitrate

UN Number: 1498

Class: 5.1

P.G.: III

Label Code: 5.1

## 15. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) Inventory List

California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances, which the State of California has found to cause cancer, birth defects or other reproductive effects.

SARA 313 Title III:

Section 320 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

## **16. Other Information**

Prepared By: Michael Richard

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