



SAFETY DATA SHEET

SODIUM NITRATE

Product No: 002/05-US

Section 1 : Identification of the Substance and of the Company

Product Name : Sodium Nitrate
 Use of the Product : Product for agriculture or industrial use.
 Supplier : SQM Northamerica Corporation
 Address : 2727 Paces Ferry Road
 Building Two, Suite 1425
 Atlanta, GA 30339
 Telephone : (770) 916 9400
 Fax : (770) 916 9401
 e-mail : product_safety@sqm.com
 Emergency Number : (800) 424 9300 (CHEMTREC)

Section 2 : Hazards Identification

Emergency Overview

Oxidizer. Contact with combustible material will not cause spontaneous ignition. However, substance will enhance an existing fire (Class 1 oxidizer according to NFPA).

NFPA Ratings

Health : 1
 Flammability : 0
 Reactivity : 1
 Special : Oxidizer

Potential Health Effects

Inhalation : Inhalation of dust irritates the respiratory tract. Symptoms may include coughing.
 Ingestion : Hazardous in case of ingestion.
 Skin Contact : May cause irritation, specially with wet skin.
 Eye Contact : May cause irritation, eye redness, itching and pain.

Section 3 : Composition/Information on Ingredients

Chemical Name : Sodium Nitrate
 CAS No. : 7631-99-4
 EINECS No. : 231-554-3
 Molecular Weight : 84.99
 Formula : NaNO₃
 Content : > 95%

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Section 4 : First Aid Measures

General Information

In case of persisting adverse effects consult a physician.

Specific Measures

Inhalation	Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion	Induce vomiting. Never give anything by mouth (oral) to an unconscious person.
Skin Contact	In case of irritation, remove clothing. Wipe excess from skin. Wash with soap and water for at least 5 minutes.
Eye Contact	Flush eyes with plenty of water, lifting lower and upper eyelids occasionally.

Section 5 : Firefighting Measures

Fire	Non combustible, but contact with combustible substances under a fire will increase combustion rate. For thermal decomposition products, refer to Section 10.
Extinguishing Media	
- Suitable	Any mean suitable for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water
- Not Suitable	-
Protective equipment:	Refer to section 8.

Section 6 : Accidental Release Measures

Personal Precautions	: Ventilate the area. Use personal protective equipment (Section 8).
Environmental Precautions:	Do not discharge into drains. Avoid surface and ground water contamination.
Methods for Cleaning Up/Taking Up	: Pick up the product mechanically and store in suitable containers for recovery or disposal.

Section 7 : Handling and Storage

Handling

Special Procedures	None
Safe Handling Procedures	Minimize dust generation. Avoid contact with eyes and skin.
Special Advices	See Section 10.

**Storage**

Special Requirements	Reseal carefully any opened container and set upright to avoid leakages. Keep the product in the original containers.
Storage Conditions	Keep away from flammable substances Do not store with combustibles reducing agents. Keep containers tightly closed in well ventilated and cool place.

Section 8 : Exposure Controls / Personal Protection**Exposure Limits**

Suggested according to US regulations: 15 mg/m³ (total dust) ; 5 mg/m³ (respirable fraction)

Exposure Controls

Local exhaust ventilation to keep low dust environment.

Personal Protective Equipment

Respiratory	Dust mask if necessary, <i>i.e.</i> in case of dust emission or dusty environments
Eyes	Safety goggles required all the time.
Hands	Nitrile rubber gloves, over 0.11 mm thickness, > 480 min breakthrough time.

Hygiene Measures

Do not drink, eat or smoke during product manipulation. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

Personal Protective Equipment	Wear dust mask if necessary, nitrile rubber gloves and chemical safety goggles.
Hygiene Measures	Do not drink, eat or smoke during product manipulation. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

Section 9 : Physical and Chemical Properties

Physical Form	: Solid, prilled or crystalline
Color	: White
Odor	: Odorless
pH	: 6-9 (5% aqueous solution)
Melting Point	: 308°C
Boiling Point	: not applicable



Flash Point : not applicable
Flammability : not flammable
Explosive Properties : not applicable
Thermal Decomposition : > 550°C
Specific Gravity : 2.26 g/mL
Water Solubility : 480 g/L (20 °C)
Partition Coefficient (log P_{ow}) : not applicable

Section 10 : Stability and Reactivity

Stability Stable under normal storage and temperature conditions.

Conditions to avoid Keep away from flammable, combustible and reducing substances.

Hazardous
Decomposition Products Nitrous oxides, sodium nitrite and sodium oxide by thermal decomposition.

Section 11 : Toxicological Information

Acute Data

Oral LD₅₀ (rat) : > 2000 mg/Kg
Dermal LD₅₀ (rat) : no data available
Inhalation LC₅₀: no data available

Short-term Effects

Inhalation may cause irritation of the respiratory tract. Can cause skin and eye irritation.

Chronic Effects

No adverse effects observed on developmental toxicity. Equivocal carcinogenic agent according to animal tests. Mutagenic and reproductive hazard at very high level doses according to animal tests.

Section 12 : Ecological Information

General

Do not discharge into drains and water or public depositories.

Environmental Fate

Sodium Nitrate dissociates into sodium and nitrate ions. Nitrates may be absorbed by plants and converted into organic nitrogen, whereas sodium binds to clay particles in the soil.



Zooplankton Toxicity	Fish Toxicity
Species : Daphnia magna	Species: Rainbow trout
LC ₅₀ 3581 mg/L (48 h)	LC ₅₀ 1658 mg/L (96 h)

Not acutely toxic to aquatic organisms.

Mobility

Predicted Distribution: Water, 45% ; Soil, 54.7%

Section 13 : Disposal Considerations

Residues : Licensed professional waste disposal service is required. Disposal of waste according to all federal, state and local regulations.

Empty Packaging : Empty containers may be reused after appropriate cleansing. Packaging that can not be cleaned should be disposed in agreement with the regional waste disposal company.

Section 14 : Transport Information

Rail & Road (DOT) – Sea (IMDG Code) – Air (IATA)

Proper Shipping Name	Sodium Nitrate.
UN Number	1498
Class	5.1
Packaging Group	III
Hazard Label	Oxidizing

Section 15 : Regulatory Information

US Classification

Indication of Danger	Oxidizing.
Risk statements	Contact with combustible material under a fire will enhance combustion.
Safety Statements	Keep away from combustible material. Avoid contact with skin and eyes.
SARA	Not listed
TSCA	Listed
Prop. 65 (California)	Not listed

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Section 16 : Other Information

This MSDS complies with 29 CFR part 1910 subpart Z and ANSI Standard Z400.1-2004.

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Univar USA Inc Material Safety Data Sheet

For Additional Information contact MSDS Coordinator during business hours, Pacific time: (425) 889-3400

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