



SAFETY DATA SHEET

SODIUM NITRATE

Product No: 002/03-US

Section 1 : Identification of the Substance and of the Company

Product Name : Sodium Nitrate
Supplier : SQM Northamerica Corporation
Address : 3101 Towercreek Parkway, Suite 450
Atlanta, GA 30339
Telephone : (770) 916 9400
Fax : (770) 916 9401
Emergency Number : (800) 424 9300 (CHEMTREC)

Section 2 : Composition/Information on Ingredients

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

Section 3 : 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.

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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 may cause ignition by contact with combustible substances. For thermal decomposition products, refer to Section 10.
- Extinguishing Media : Any mean suitable for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water
- Suitable : -
- Not Suitable : Refer to section 8.
- 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 : Pick up the product mechanically and store in suitable containers for Up/aking Up recovery or disposal.

Section 7 : Handling and Storage

Handling

Special Procedures None

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Safe Handling Procedures

Minimize dust generation. Avoid contact with eyes and skin.

Special Advices

Does not present any known incompatibility.

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
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
Colour : White
Odour : Odourless

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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 : 380°C
Specific Gravity : 2.26 g/mL
Water Solubility : 480 g/L (20 °C)
Partition Coefficient (log Pow) : not applicable

Section 10 : Stability and Reactivity

Stability : Stable under normal storage and temperature conditions.
Conditions to avoid : Reacts with flammable 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) : 1267 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.

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Section 12 : Ecological Information

General

Do not discharge into drains and water or public depositories.

Environmental Fate

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

Species : Daphnia magna
LC₅₀ 3581 mg/L (48 h)

Fish Toxicity

Species: Rainbow trout
LC₅₀ 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 Harmful

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Section 15 : Regulatory Information

US Classification

Indication of Danger Oxidizing, Harmful.

Risk statements Contact with combustible material may cause fire. Harmful if swallowed.

Safety Statements Keep away from combustible material.
Avoid contact with skin and eyes.

SARA Not listed

TSCA Listed

California Prop. 65 Not listed

Section 16 : Other Information

This MSDS complies with ANSI Standard Z400.1-2004.

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