

## SAFETY DATA SHEET

# **46% SODIUM NITRATE Solution**

#### Section 1 - Identification

46% SODIUM NITRATE Solution Product

Manufacturer TradeMark Nitrogen Corp.

Address 1216 Old Hopewell Road, Tampa, FL 33619

Phone (813) 626-1181 24 Hour Chemtrec **Emergency** (800) 424-9300

Contact

#### Recommended Use:

A component in several reactions carried out on industrial scales for the production of concrete admixtures, odor control in municipal waste water, and other uses

#### Section 2 – Hazard Identification





Signal Word: WARNING

**Hazard Statements** 

H302 Harmful if swallowed

H315 Causes skin irritation

H320 Causes eye irritation

H371 May cause damage to organs (blood)

H402 Harmful to aquatic life

# Precautionary

Statements:

P210 Keep away from open flames. - No Smoking

P220 Keep / Store away from combustible materials

P221 Take any precaution to avoid mixing with combustible materials

P260 Do not breathe fume, mist, spray, vapours

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P273 Avoid release to the environment

P280 Wear eye protection, protective clothing, protective gloves

P302+P352 IF ON SKIN: Wash with plenty of water

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing

P332+P313 If skin irritation occurs: Get medical advice / attention

P337+P313 If eye irritation persists: Get medical advice / attention

P362 Take off contaminated clothing

P370+P378 IN CASE OF FIRE: use water in large amounts, water spray for extinction

P405 Store locked up

P501 Dispose of contents / container according to local, regional, national, and international

### Section 3 - Composition

Ingredients	Component	CAS. No.	Percent by Weight
	Sodium Nitrate (NaNO₃)	7631-99-4	45-47%
	Water (H <sub>2</sub> 0)	7732-18-5	59-61%

Section 4 – First	Aid Measures
Inhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. Provide artificial respiration if necessary. Seek medical attention if necessary.
Skin Contact	If on skin (or hair): Take off all contaminated clothing. Rinse skin with soap and water for at least 15 minutes. Liquid is hot - may need to treat exposed person for burns.
Eye Contact	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.
Ingestion	If swallowed: Do NOT induce vomiting. Drink large amounts of water. Never give anything by mouth to an unconscious person. Seek medical attention.
Acute Health Hazards	High levels of nitrates may reduce the bloods ability to transport oxygen causing headache, fatigue, dizziness and blue lips and skin (methemoglobinemia).
Chronic Health Hazards	Methemoglobinemia is the primary health effect, but possible excessive action of the kidneys and perhaps bowels can occur.
Section 5 - Fire	Fighting Measures

Suitable Extinguishing Techniques &

46% Sodium Nitrate is a non-flammable aqueous solution. Flooding quantity of water is recommended in the event of a fire.

Equipment

Chemical Hazards If product evaporates to dryness, the remaining solid residue may pose a slight fire hazard.

Special Fire Fighting Procedures

NFPA Rating

From Fire

Sodium Nitrate is an oxidizer. Wear full protective clothing and positive-pressure seal-contained breathing apparatus.

Health - 1 (Slight) Fire - 0 (Least)

Reactivity - 0 (Least)



Do not allow run-off from fire fighting to enter drains or water courses. Other

dental Release Measure
Avoid splashing. Prevent exposure to spilled material with the use of proper PPE.
PPE should include gloves, goggles, face shield and level C protective suit.
Control the flow of product using dikes of soil, sand bags or other commercially available inert sorbent socks or booms.
Absorb product with inert absorbent. Avoid splashing or spraying. Contain and pick up spill in diked area. Prevent discharge to sewers or water ways. If uncontaminated, recover and re-use.

### Section 7 – Safe Handling & Storage

Precautions for Safe Handling & Storage

Use caution when handling/transferring. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breath mist or vapor. Use only with adequate ventilation. Wear appropriate personal protective equipment. Transfer and storage should be compatible. Observe good industrial hygiene practices.

Do not store above 120°F. Keep container tightly closed. Store in a cool, dry, well-ventilated place. Story away from incompatible materials (See Section 10). Incompatibility Ensure that all local regulations regarding handling and storage facilities are followed.

Exposure Limits	Component	Permissible Exposure	Threshold Limit	Short Term	Immediately Dangerous to			
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	Sodium Nitrate (NaNO₃)	Not Established	Not Established	Not Established	Not Established			
	Water (H₂O)	Not Established	Not Established	Not Established	Not Established			
Engineering Controls	Local or general exhaust. Eyewash facilities should be available.							
Personal	Eyes	Chemical safety goggle	s or safety glasses.					
rotective	Hands Impervious chemical protective gloves.							
Equipment	Respiratory None required under normal conditions. NIOSH approved respirator if there is a mist of the product.							
	Protective Clothing							
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Protective Clothing Respiratory Protection

Section 9 - Physical & Chemical Properties Appearance and Clear to pale yellow liquid with little to no Specific Gravity 1.37 - 1.39 @ 68°F Odor detectable odor. **Boiling Point** 212°F Molecular Weight N/A Freezing Point N/A Solubility in Water Highly soluble in water Vapor Pressure Evaporative Rate No Data Available No Data Available Weight per Gallon 11.4 - 11.6 lbs/gal @ 68°F На 6 - 9 Flash Point Not Flammable Salt-Out Temp N/A Flammability Not Applicable Auto Ignition Not Flammable Limits Temp UEL No Data Available LEL No Data Available

Section 10 - Stability & Reactivity

Reactivity Product is not reactive under normal conditions. Stability Product is stable under normal conditions Hazardous Hazardous polymerization will not occur. Reactions

Conditions to Do not allow product to evaporate to dryness. Keep away from heat. Avoid heating within a confined space. Avoid incompatibilities, contamination and combustible materials Avoid

Incompatible Avoid contact with readily oxidizable materials, strong acids and chlorates.

Materials Hazardous

NOx (Nitrogen Oxide)

Decomposition Products

Section 11 – Toxicology Information

Inhalation, ingestion or skin/eye absorption Routes of Exposure Symptoms and Eves Causes eve irritation.

Signs of Exposure Skin Mild irritant.

> Inhalation May irritate respiratory tract causing cough and sore throat.

Ingestion Can cause abdominal pain, vomiting, diarrhea and methemoglobinemia.

Long Term Effects Methemoglobinemia is the primary long-term health effect.

Toxicity Sodium Nitrate

> Rat Oral Toxicity LD<sub>50</sub> 1276 mg/kg

(OECD Guide 401)

Carcinogen The International Agency for Research on Cancer has not classified sodium nitrate for its carcinogenic potential (IARC 1987).

Section 12 – Ecological Information

Sodium Nitrate 7631-99-4 **Aquatic Toxicity Data:** No Data Available Persistence and LC50 Gambusia affinis: 6650 mg/L - 96H

degradability:

No Data Available

Bioaccumulative

Mobility in soil: No Data Available

Other adverse No Data Available

effects:

potential:

Section 13 - Disposal Considerations

Waste Sodium Nitrate is not considered a hazardous waste. Disposal must be done in accordance with local, state and federal environmental regulations. Place waste in

an appropriate container with correct labeling.

This material is highly water soluble. Landfills receiving this material should be equipped to contain leachate. Additional

Information

Section 14 - Trai	nsport Informatio	n						
DOT	Not regulated as dangerous goods							
IMDG	Not regulated as dangerous goods							
IATA	Not regulated as dangerous goods							
Section 15 - Reg	ulatory Informati	on						
United States - SARA Hazard Category	This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (SARA) and is considered, under applicable definitions, to meet the following categories:							
	Fire - No	Pressure - No	Reactive - No	Acute - Yes	Chronic - No			
SARA Title III	This product contains the following substances subject to the reporting requirements of Title III (EPCRA) of the Superfund Amendments and Reauthorization Act of							
Information	Chemical	CAS No.	CERCLA RQ (lbs.)	SARA Reporting				
				302	304	313		
	Sodium Nitrate	7631-99-4	N/A	N/A	N/A	Yes <sup>(1)</sup>		
	(1) As nitrate comp	ounds (water dissociable	<u>=</u> )					
CERCLA / Superfund, 40 CFR Part 117, 302	If this product contains components subject to substances designated as CERCLA reportable Quantity (RQ) Substances, it will be designated in the above table with the RQ value in pounds. If there is a release of RQ Substance to the environment, notification to the National Response Center, Washington DC (800-424-8802) is required.							
TCCA	Codium Nitrato cal	t is listed on the TSCA in	vontory					

TSCA Sodium Nitrate salt is listed on the TSCA inventory.

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issue Date:	0/23/2025
Date of Revision	June 2025 SDS updated physical and chemical properties in Section 9. March 2024 revision prepared in accordance with 29 CFR 1910.1200 Appendix D to meet
	Global Harmonization Standards.
Disclaimer	The information contained in this SDS refers only to the specific material designated and does not relate to any process or use with any other materials. This

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