

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Sodium nitrate
CAS #: 7631-99-4
FORMULA: NaNO₃
SYNONYM: Nitric acid, sodium salt, Sodium saltpeter

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7631-99-4	100	no data	no data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Harmful if swallowed. Irritating to eyes, skin and mucous membranes. May cause heritable genetic damage.

PRIMARY ROUTES OF EXPOSURE: Ingestion

EYE CONTACT: Causes slight to mild irritation of the eyes

SKIN CONTACT: Causes slight to mild irritation of the skin.

INHALATION: Irritating to the nose, mucous membranes and respiratory tract.

INGESTION: Harmful if swallowed. Ingestion can lead to increased pulse rate and changes in blood chemistry

CHRONIC HEALTH EFFECTS: No information available on long-term chronic effects.

ACUTE HEALTH EFFECTS: Harmful if swallowed. Irritating to eyes, skin and mucous membranes. May cause heritable genetic damage.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: none

AUTO IGNITION TEMPERATURE: none

EXPLOSION LIMITS: none

EXTINGUISHING MEDIUM: carbon dioxide, foam or dry powder

SPECIAL FIREFIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire material may emit irritating fumes.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Metal nitrates can be oxidizers. Contact with strong reducing agents could lead to fire and/or explosions.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Small spills can be mixed with vermiculite or sodium carbonate and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container. Keep away from heat and direct sunlight.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical-resistant.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: white xtl.

MOLECULAR WEIGHT: 84.99

MELTING POINT (DEG. C.): none

BOILING POINT: no data

VAPOR PRESSURE: not applicable

SPECIFIC GRAVITY: 2.261

SOLUBILITY IN WATER: soluble

SECTION 10 Stability and Reactivity

STABILITY: hygroscopic

HAZARDOUS POLYMERIZATION: no hazardous polymerization
CONDITIONS TO AVOID: no hazardous polymerization
INCOMPATIBILITY: reducing agents, sulfur, phosphorus, carbon powder
DECOMPOSITION PRODUCTS: nitrogen oxides and sodium salts.

SECTION 11 Toxicological Information

RTECS DATA: Oral (rat); LD50: 4 gm/kg. Inhalation (rat); LC50: >2080 mg/m³/4H. Intraperitoneal (rat); LD50: 576 mg/kg. Intraperitoneal (mouse); LD50: 303 mg/kg. Subcutaneous (mouse); LD50: 570 mg/kg. Intravenous (cat); LD50: 917 mg/kg. Oral (rat: TDLo: 18200 mg/kg/13W-1. Oral (mammal-domestic); TDLo: 484 mg/kg/21W-1. Intrastitular (mouse); TDLo: 16474 ug/kg. Bacteria Escherichia coli; Phage inhibition capacity: 16 mmol/L. Yeast- Saccharomyces cerevisiae: 80 mmol/L. See RTECS files(WC5600000) for additional information.

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

CARCINOGENIC EFFECTS: no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Sodium nitrate, Class 5.1, UN 1498, PG III

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Not reportable under SARA Title (313).

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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