Sodium Nitrate



Section 1 Product Description

Product Name: Sodium Nitrate

Recommended Use: Science education applications

Synonyms: Sodium (I) Nitrate; nitric acid, sodium salt; soda niter; Chile saltpeter

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING





May intensify fire; oxidizer. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

GHS Classification:

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Oxidizing Solid Category 3, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3, Acute Toxicity - Oral Category 4

Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Sodium Nitrate
 7631-99-4
 100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Section 5 Firefighting Procedures

Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this

naterial.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Product is a strong oxidizer. Contact with combustible materials, flammable materials, or

powdered metals can cause fire or explosion. Can react violently with reducing agents.

Risk of explosion by shock, friction, fire or other sources of ignition.

Hazardous Combustion Products: Sodium Oxides, Nitrogen containing gases

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Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Avoid the generation of dusts during clean-up.

Environmental Precautions:

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container Do not flush to sewer. Avoid runoff into storm sewers and ditches that lead to

waterways.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

Handling: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep/Store away from

> clothing/.../combustible materials. Take any precaution to avoid mixing with combustibles. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eve

protection/face protection. Keep container tightly closed in a cool, well-ventilated place. This material should be kept in an area suitable for the storage of flammable liquids. Store away from oxidizing agents, sparks and flame.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a Storage:

cool, well-ventilated place.

Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials. Storage Code:

Section 8

Protection Information

ACGIH OSHA PEL Chemical Name (TWA) (STEL) (TWA) (STEL) No data available N/A N/A N/A N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

> might be required to maintain operator comfort under normal conditions of use. Ventilation should effectively remove and prevent buildup of any vapor/mist/fume

generated from the handling of this product. Lab coat, apron, eye wash, safety shower.

Personal Protective Equipment (PPE): **Respiratory Protection:**

Respiratory protection will be required when handling this product. Use respirators only if

ventilation cannot be used to eliminate symptoms or reduce the exposure to below acceptable levels. If ventilation is not sufficient to effectively prevent buildup of

vapor/mist/fume/dust, appropriate NIOSH/MSHA respiratory protection must be provided.

Wear a NIOSH/MSHA-approved (or equivalent) full-facepiece airline respirator in the Respirator Type(s):

positive pressure mode with emergency escape provisions

Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves:

Nitrile

Section 9

Eye Protection:

Physical Data

Formula: NaNO3 Molecular Weight: 84.99

Appearance: White Crystalline Solid

Odor: No data available

Odor Threshold: No data available

pH: 9 at 100 g/l at 20 °C

Vapor Pressure: N/A

Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 2.26 Solubility in Water: Soluble

Log Pow (calculated): No data available

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Melting Point: No data available 308 C Boiling Point: No data available 380 C Flash Point: No data available Flammable Limits in Air: N/A Autoignition Temperature: No data available Decomposition Temperature: No data available

Viscosity: No data available Percent Volatile by Volume: N/A

Section 10 Reactivity Data

Reactivity:

Chemical Stability:

Conditions to Avoid:

No data available

High temperatures

None known.

Incompatible Materials: Cyanide Salts, Metals (powdered), Strong acids, Strong reducing agents, Alkali and

Alkaline Metals, Organic Compounds

Hazardous Decomposition Products: Nitrogen containing gases, Sodium Oxides

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Respiratory disorders, , Eye disorders, Gastrointestinal,

Delayed Effects: No data available

Acute Toxicity:

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Sodium Nitrate7631-99-4Oral LD50 MouseNot determinedNot determined

3500 mg/kg Oral LD50 Rabbit 2680 mg/kg Oral LD50 Rat 1267 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHASodium Nitrate7631-99-4ListedNot listedNot listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical Name CAS Number Eco Toxicity

Sodium Nitrate 7631-99-4 96 HR LC50 LEPOMIS MACROCHIRUS 2000 MG/L [STATIC]

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

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UN number: 1498 Class: 5.1 Packing group: III Proper shipping name: Sodium nitrate Marine pollutant: No Poison Inhalation Hazard: No

UN number: 1498 Class: 5.1 Packing group: III Proper shipping

name: Sodium nitrate

| Section 15 | | Regulatory Information | | | | | | |
|-------------------|---|------------------------|----------|-----------|-----------|------------------|--|--|
| TSCA Status: | All components in this product are on the TSCA Inventory. | | | | | | | |
| Chemical Name | CAS Number | § 313 Name | § 304 RQ | CERCLA RQ | § 302 TPQ | CAA 112(2) TQ | | |
| No data available | 7631-99-4 | No | No | No | No | No | | |

Section 16 Additional Information

Revised: 09/09/2015 Replaces: 09/04/2015 Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

| Glossary | | | |
|----------|---|------|---|
| ACGIH | American Conference of Governmental | NTP | National Toxicology Program |
| | Industrial Hygienists | OSHA | Occupational Safety and Health Administration |
| CAS | Chemical Abstract Service Number | PEL | Permissible Exposure Limit |
| CERCLA | Comprehensive Environmental Response, | ppm | Parts per million |
| | Compensation, and Liability Act | RCRA | Resource Conservation and Recovery Act |
| DOT | U.S. Department of Transportation | SARA | Superfund Amendments and Reauthorization Act |
| IARC | International Agency for Research on Cancer | TLV | Threshold Limit Value |
| N/A | Not Available | TSCA | Toxic Substances Control Act |
| | | IDLH | Immediately dangerous to life and health |

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