

**SDS** #: 743

**Revision Date:** July 17, 2015

2/24/2025: File reviewed; more current MSDS/SDS not available. CAS

Safety Data Sheet (SDS)

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Signal Word WARNING

Sodium Nitrate

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-10337

Pictograms

## SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Oxidizing solids (Category 3). May intensify fire; oxidizer (H272). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).



Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

Hazard class: Eye irritation (Category 2A). Causes serious eye irritation (H319).

## SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Sodium nitrate	7631-99-4	NaNO <sub>3</sub>	84.99	
Synonyms: Chile saltpeter				

#### SECTION 4 — FIRST AID MEASURES

If exposed or concerned: Get medical advice or attention (P308+P313).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Rinse cautiously with water for several minutes (P351).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell (P301+P330+P312).

## **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable solid.

NFPA Code

Strong oxidizer. Fire and explosion risk when in contact with combustible materials.

None established

When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher.

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

## SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #3. Store with amides, nitrates, nitrates and azides. Store in a cool dry place. Keep away from combustible materials (P220). Take any precautions to avoid mixing with combustibles (P221).

#### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, eye protection, and face protection (P280). Wash hands thoroughly after handling (P264).

#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless transparent crystals. Odorless. Boiling point: 380 °C (decomposes)

Soluble: Water and glycerol. Slightly in alcohol. Melting point: 306.5 °C

Specific gravity: 2.261 Viscosity: 3.85 cP at 590 K

#### SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong reducers, strong acids, combustible materials, finely powdered metals, friction and shock. Shelf life: Indefinite, if stored properly.

#### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, irritant. ORL-RAT LD<sub>50</sub>: 1267 mg/kg

Chronic effects: Anemia, methemoglobinemia, IHL-RAT LC<sub>50</sub>: N.A. nephritis. SKN-RBT LD<sub>50</sub>: N.A.

Target organs: Blood, central nervous system.

#### SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

### SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26b is one option.

#### SECTION 14 — TRANSPORT INFORMATION

Shipping name: Sodium nitrate. Hazard class: 5.1, Oxidizer. UN number: UN1498. Packing group: III

# **SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (231-554-3), RCRA code D001.

#### SECTION 16 — OTHER INFORMATION

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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