

## Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Sodium Nitrite

Signal Word  
**DANGER**

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

Chemtrec Emergency Phone Number: (800) 424-10339

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 and inhalation (Category 3). Toxic if swallowed or inhaled (H301+H331). Do not eat, drink or smoke when using this product (P270). Avoid breathing dust or fumes (P261).



### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Sodium nitrite	7632-00-0	NaNO <sub>2</sub>	69	

### SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

**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:** Wash with plenty of water.

**If swallowed:** Rinse mouth. Immediately call a POISON CENTER or physician (P301+P330+P310).

### SECTION 5 — FIRE FIGHTING MEASURES

Flammable solid.

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

When heated to decomposition, may emit toxic fumes.

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

NFPA Code

None established

### 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, nitrites and azides. Hygroscopic. Store in a cool dry place within a Flinn Chem-Saf™ bag, and lock up in a poison cabinet. Keep away from combustible materials (P220). Take any precautions to avoid mixing with combustibles (P221). Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271).

---

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

---

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling. Use only in a hood or well-ventilated area (P271). Wear respiratory protection (P284).

---

## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

---

White or very slightly yellowish crystals or powder.	Melting point: 271 °C [ $>320$ °C (decomposes)]
Odorless.	pH: Basic
Soluble: Water. Slightly in alcohol.	Specific gravity: 2.17

0

---

## **SECTION 10 — STABILITY AND REACTIVITY**

---

Avoid contact with strong reducers, finely powdered metals, combustible materials, and strong acids. Shelf life: Indefinite, but hygroscopic. See Section 7 for further information.

---

## **SECTION 11 — TOXICOLOGICAL INFORMATION**

---

Acute effects: Toxic, irritant.	ORL-RAT LD <sub>50</sub> : 180 mg/kg
Chronic effects: Possible mutagen.	IHL-RAT LC <sub>50</sub> : 5500 ug/m <sup>3</sup>
Target organs: Blood, cardiovascular system.	SKN-RBT LD <sub>50</sub> : N.A.

---

## **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 #12b is one option.

---

## **SECTION 14 — TRANSPORT INFORMATION**

---

Shipping name: Sodium nitrite. Hazard class: 5.1, Oxidizer. UN number: UN1500.

---

## **SECTION 15 — REGULATORY INFORMATION**

---

TSCA-listed, EINECS-listed (231-555-9), RCRA code D001.

---

## **SECTION 16 — OTHER INFORMATION**

---

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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.**

**Revision Date:** March 21, 2014

---