

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 642.00

Revision Date: December 13, 2013

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Potassium Nitrite

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

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **DANGER**

Pictograms



### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Oxidizing solids (Category 2). May intensify fire; oxidizer (H272). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Acute toxicity, oral (Category 3). Toxic if swallowed (H302). Do not eat, drink or smoke when using this product (P270).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| Component Name    | CAS Number | Formula          | Formula Weight | Concentration |
|-------------------|------------|------------------|----------------|---------------|
| Potassium nitrite | 7758-09-0  | KNO <sub>2</sub> | 85.11          |               |

### 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. Continue rinsing.

**If on skin:** Wash with plenty of water.

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Strong oxidizer. Dangerous fire or explosion risk if shocked or heated, or in contact with organic materials.

When heated to decomposition, may emit toxic fumes.

**In case of fire:** Use tri-class dry chemical fire extinguisher(P370+P378).

**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.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Inorganic #3. Store with amides, nitrates, nitrites, and azides. Store in a poisons cabinet. Hygroscopic. Store in a cool, dry place within a Flinn Chem-Saf™ bag.

Keep and store away from clothing and combustible materials (P220). Take any precautions to avoid mixing with combustibles (P221).

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

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

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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White or slightly yellow prisms or sticks. Odorless.

Melting point: 440 °C (decomposition starts at 350 °C).

Soluble: Water. Insoluble in alcohol.

Specific gravity: 1.915

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with strong reducers, finely powdered metals, strong acids, organic materials, heat, open flame or any source of ignition.

Shelf life: Fair, hygroscopic. See Section 7 for further information.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Toxic, irritant

ORL-RBT LD<sub>50</sub>: 200 mg/kg

Chronic effects: N.A.

IHL-MUS LC<sub>50</sub>: 85 g/m<sup>3</sup>/2H

Target organs: Blood, smooth muscle

SKN-RBT LD<sub>50</sub>: N.A.

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

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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

Flinn Suggested Disposal Method #12b is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Potassium Nitrite; Hazard class: 5.1, Oxidizer; UN number: UN1488

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (231-832-4), RCRA code D001.

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**SECTION 16 — OTHER INFORMATION**

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