

**FLINN SCIENTIFIC, INC.**  
**Material Safety Data Sheet (MSDS)**

MSDS #: 642.10

Revision Date: October 14, 2011

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**SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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**Potassium Nitrite Solution**

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

CHEMTREC Emergency Phone Number: (800) 424-9300

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**SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS**

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Potassium Nitrite (7758-09-0) 9% and Water (7732-18-5) 91%

CAS#: None established

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**SECTION 3 — HAZARDS IDENTIFICATION**

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Very light yellow aqueous solution. Odorless.

Irritating to body tissues. Moderately toxic by ingestion. Avoid all body tissue contact.

**FLINN AT-A-GLANCE**

Health-2

Flammability-0

Reactivity-1

Exposure-1

Storage-0

0 is low hazard, 3 is high hazard

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**SECTION 4 — FIRST AID MEASURES**

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Call a physician and seek medical attention for further treatment, observation, and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.

Eye or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

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**SECTION 5 — FIRE FIGHTING MEASURES**

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Nonflammable liquid.

**NFPA CODE**

None

established

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**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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Restrict unprotected personnel from area and ventilate area. Contain spill with sand or absorbent material; deposit in sealed bag or container. 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 and nitrites.

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

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Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron.

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Very light yellow, odorless solution.  
A solution of potassium nitrite and water.

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**SECTION 10 — STABILITY AND REACTIVITY**

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Shelf life: Indefinite, if stored properly.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Irritant  
Chronic effects: N.A.  
Target organs: N.A.

ORL-RBT LD<sub>50</sub>: 200 mg/kg as potassium nitrite  
IHL-MUS LC<sub>50</sub>: 85 g/m<sup>3</sup>/2H as potassium nitrite  
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: Not regulated  
Hazard class: N/A  
UN number: N/A  
N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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Not listed.

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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.**