

# FLINN SCIENTIFIC, INC.

## Material Safety Data Sheet (MSDS)

MSDS #: 606.00

Revision Date: February 24, 2012

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### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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#### Picric Acid 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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Picric acid (88-89-1) 1.2% and Water (7732-18-5) 98.8%

CAS#: None established

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### SECTION 3 — HAZARDS IDENTIFICATION

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Yellow acidic aqueous solution. Odorless.

Picric acid is poisonous and if allowed to dry is a powerful explosive.

Moderately toxic by ingestion, inhalation, and skin absorption. Body tissue irritant.

Avoid all body contact.

#### FLINN AT-A-GLANCE

Health-2

Flammability-0

Reactivity-2

Exposure-1

Storage-1

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: Do NOT induce vomiting. Rinse mouth. Call a physician or poison control at once.

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### SECTION 5 — FIRE FIGHTING MEASURES

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Nonflammable liquid.

Picric acid explodes at 300 °C.

When heated to decomposition, emits toxic fumes of NO<sub>x</sub>. If allowed to dry, solid is a powerful explosive.

**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### 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: Organic #8. Store with phenol and cresols.

Store in a cool dry place. Be sure this product never dries out. Use and dispense in a hood.

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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. Use exhaust ventilation to keep airborne concentrations low.

Exposure Guidelines: PEL 0.1 mg/m<sup>3</sup> (as picric acid) (OSHA)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Yellow liquid. No odor.

Formula:  $C_6H_2(NO_2)_3OH$

Formula weight: 229.11

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**SECTION 10 — STABILITY AND REACTIVITY**

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Unstable, if allowed to dry, solid is a powerful explosive. Especially reactive when exposed to metals or metal salts.

Explodes at 300 °C.

Shelf life: Poor, unless regularly monitored to be certain moisture is maintained as described above.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Toxic

ORL-RAT LD<sub>50</sub>: N.A.

Chronic effects: N.A.

IHL-RAT LC<sub>50</sub>: N.A.

Target organs: N.A.

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 #4a 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.**