

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

MSDS #: 734.10

Revision Date: November 22, 2010

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

**Sodium Hydroxide Solution (6 M - 12 M)**

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261  
CHEMTREC Emergency Phone Number: (800) 424-9300

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

Sodium Hydroxide (1310-73-2) 25-50% and Water (7732-18-5) 50-75%.  
6 M to 12 M  
CAS#: None established

**SECTION 3 — HAZARDS IDENTIFICATION**

Clear, colorless basic aqueous solution. Odorless.  
Highly toxic by ingestion, inhalation, or skin absorption. Extremely corrosive to body tissues.  
Causes severe eye burns. Avoid all body tissue contact.

**FLINN AT-A-GLANCE**

Health-3  
Flammability-0  
Reactivity-2  
Exposure-3  
Storage-0

0 is low hazard, 3 is high hazard

**SECTION 4 — FIRST AID MEASURES**

Call a physician, 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: Immediately flush with fresh water for 15 minutes.  
External: Wash continuously with fresh water for 15 minutes.  
Internal: Do NOT induce vomiting. Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

**SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable liquid.  
When heated to decomposition, emits toxic fumes of Na<sub>2</sub>O.  
**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive mode.

**NFPA CODE**

H-3  
F-0  
R-1

**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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.

**SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Inorganic #4. Store with hydroxides, oxides, silicates and carbonates.  
Keep container tightly closed.

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

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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Colorless, odorless liquid.  
Concentrated: 50% sodium hydroxide  
Density: 1.53 g/ml

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**SECTION 10 — STABILITY AND REACTIVITY**

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Shelf life: Good, if kept tightly closed.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Toxic, corrosive	ORL-RAT LD50: N.A.
Chronic effects: N.A.	IHL-RAT LC50: N.A.
Target organs: N.A.	SKN-RBT LD50: 50 mg/24H

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 consult with state and local regulations.  
Flinn Suggested Disposal Method #10 is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping Name: Sodium hydroxide solution  
Hazard Class: 8, Corrosive  
UN Number: UN1824  
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.**