

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

MSDS #: 735.20

Revision Date: November 22, 2010

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

**Sodium Hydroxide Solution (0.5 M or less)**

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) 0.4-2% and Water (7732-18-5) 98-99.6%

0.5 M and less concentrated

CAS#: None established

**SECTION 3 — HAZARDS IDENTIFICATION**

Clear, colorless basic aqueous solution. Odorless.

Slightly toxic by ingestion and skin absorption. Irritating to body tissues. Causes severe eye burns.

Avoid all body tissue contact.

**FLINN AT-A-GLANCE**

Health-1

Flammability-0

Reactivity-1

Exposure-1

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

**SECTION 5 — FIRE FIGHTING MEASURES**

Noncombustible 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**

None

established

**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.

Concentrations: 0.5 Molar = 2%, 0.2 Molar = 0.8%,

0.1 Molar = .48% NaOH

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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

Chronic effects: N.A.

Target organs: N.A.

ORL-RAT LD50: N.A.

IHL-RAT LC50: N.A.

SKN-RBT LD50: 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 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.**