## FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

### Material Safety Data Sheet (MSDS)

Section 1 — Chemical Product and Company Identification

### Sodium Hydroxide

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

CAS#: 1310-73-2

Section 3 — Hazards Identification White pellets or flakes. Odorless. Health-3 Highly toxic by ingestion, inhalation, or skin absorption. Extremely corrosive to body tissues. Causes severe eye burns. Avoid all body tissue contact.

### 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 no more than 1-2 cups of water for dilution. Do not induce vomiting. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures	
Non flammable solid.	NFPA CODE
Hot molten sodium hydroxide can react violently with water. Contact with aluminum, tin, and zinc	Н-3
liberates hydrogen gas. When heated to decomposition, emits toxic fumes of Na2O.	F-0
Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE	R-1
and SCBA with full facepiece operated in positive mode.	

### Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. 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.

### Section 7 — Handling and Storage

Flinn Suggested Chemical Storage Pattern: Inorganic #4. Store with hydroxides, oxides, silicates and carbonates. Store in a cool dry place. Absorbs CO2 and water from air, keep container tightly closed. Use and dispense in a hood.

### Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire). Exposure guidelines: TWA 2 mg/m3 Ceiling 2 mg/m3 (OSHA, ACGIH)

### PAGE 1 OF 2

MSDS #: 734.00 Revision Date: March 15, 2001

FLINN AT-A-GLANCE

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

0 is low hazard, 3 is high hazard

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

### Material Safety Data Sheet (MSDS)

Sodium Hydroxide

MSDS #: 734.00 Revision Date: March 15, 2001

### Section 9 — Physical and Chemical Properties

White pellets or flakes. Absorbs CO2 and water from air. Odorless. Solubility: Soluble in water, alcohol and glycerol. Formula: NaOH Formula Weight: 40.00 Specific Gravity: 2.13 Melting Point: 318 C

### Section 10 — Stability and Reactivity

Contact with aluminum, tin, and zinc liberates, hydrogen gas. Avoid contact with strong oxidizers, strong acids, organic material, chlorinated solvents.

Shelf life: Good.

### Section 11 — Toxicological Information

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: 50 mg/24H

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

### Section 12 — Ecological Information

Data not yet available.

### Section 13 — Disposal Considerations

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

### Section 14 — Transport Information

Shipping Name: Sodium hydroxide, solid Hazard Class: 8, Corrosive UN Number: UN1823

N/A = Not applicable

### Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (215-185-5), RCRA code D002, D003.

### Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.



"Your Safer Source for Science Supplies"

## Flinn MSDS Prevent Chemical Accidents

flinn@flinnsci.com www.flinnsci.com P.O. Box 219 Batavia IL 60510 (800) 452-1261 Fax (866) 452-1436