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

MSDS #: 635.00

Revision Date: December 14, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Potassium Hydroxide Solution 1M - 3M

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

Potassium hydroxide solution (1310-58-3) 6-17% and Water (7732-18-5) 83-94%.

Concentration: 1 to 3 molar solutions

CAS#: None established

SECTION 3 — HAZARDS IDENTIFICATION

Clear, colorless basic aqueous solution. Odorless.

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

FLINN AT-A-GLANCE

Health-2 Flammability-0

Reactivity-1 Exposure-2 Storage-0

0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

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

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable liquid.	NFPA CODE
When heated to decomposition, emits toxic fumes of K_2O .	H-3
Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and	F-0
SCBA with full facepiece operated in positive mode.	R-1

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area and ventilate area. Contain spill with sand or absorbent material; neutralize with citric acid, and 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.

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

Colorless, odorless liquid.

pH: basic Concentrations: 1 to 3 Molar

SECTION 10 — STABILITY AND REACTIVITY

Shelf life: Good, if stored properly

<u>SECTION 11 — TOXICOLOGICAL INFORMATION</u>

ORL-RAT LD₅₀: 273 mg/kg as potassium hydroxide Acute effects: Corrosive

Chronic effects: N.A. IHL-RAT LC₅₀: N.A. Target organs: N.A. SKN-RBT LD₅₀: N.A.

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 review all federal, state and local regulations that may apply, before proceeding.

Flinn Suggested Disposal Method #10 is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Potassium Hydroxide, solution

Hazard class: 8, Corrosive UN number: UN1814 N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

Not listed.

SECTION 16 — OTHER INFORMATION

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Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.