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

MSDS #: 393.00

**Revision Date:** August 18, 2011

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

### **Hydriodic Acid**

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

Hydriodic acid

Synonym: Hydrogen iodide, 47-51% solution

CAS#: 10034-85-2

#### **SECTION 3 — HAZARDS IDENTIFICATION**

Clear, colorless to pale yellow liquid.

Highly toxic by ingestion and inhalation. Corrosive to body tissue. Avoid all body contact.

When heated to decomposition, emits toxic iodide fumes.

FLINN AT-A-GLANCE

Health-3

Flammability-0

Reactivity-2

Exposure-3

Storage-3

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: 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 iodide fumes.	H-3
Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and	F-0
SCBA with full facepiece operated in positive pressure mode.	R-0

#### <u>SECTION 6 — ACCIDENTAL RELEASE MEASURES</u>

Restrict unprotected personnel from the area. Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material, neutralize with sodium bicarbonate or calcium hydroxide, and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

#### **SECTION 7 — HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Inorganic #9. Store with inorganic acids.

Store in a dedicated acid cabinet and away from any source of water; if an acid cabinet is not available, store in Flinn Saf-Cube. 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 a chemical-resistant apron. Use exhaust ventilation to keep airborne concentrations low.

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Material Safety Data Sheet Hydriodic Acid MSDS #: 393.00

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#### **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

Clear, colorless to pale yellow liquid.

Solubility: Soluble in water.

Boiling point: 127 °C

Specific gravity: 1.5

Formula: HI

Formula weight: 127.91

#### SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with bases and amine. Corrodes steel.

Shelf life: Good, if stored properly.

#### **SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: Corrosive. ORL-RAT  $LD_{50}$ : N.A. Chronic effects: N.A. IHL-RAT  $LC_{50}$ : N.A. Target organs: N.A. SKN-RBT  $LD_{50}$ : 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 #24b is one option.

#### **SECTION 14 — TRANSPORT INFORMATION**

Shipping name: Hydriodic acid, solution

Hazard class: 8, Corrosive UN number: UN1787 N/A = Not applicable

#### **SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (233-109-9), RCRA code D002.

#### **SECTION 16 — OTHER INFORMATION**

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