Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Hydrobromic Acid

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
Chemtrec Emergency Phone Number: (800) 424-9846

Signal Word

DANGER

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314). Do not breathe mist, vapors or spray (P260).

Hazard class: Acute toxicity, inhalation (Category 3). Toxic if inhaled (H331). Avoid breathing mist, vapors or spray (P261).

Hazard class: Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3). May cause respiratory irritation (H335).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS Number</th>
<th>Formula</th>
<th>Formula Weight</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrobromic acid</td>
<td>10035-10-6</td>
<td>HBr</td>
<td>80.91</td>
<td>47-49%</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>H2O</td>
<td>18.00</td>
<td>51-53%</td>
</tr>
</tbody>
</table>

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338).
If on skin or hair: Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).
If swallowed: Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution.
In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA Code

H-3
F-0
R-0
SECTION 6 — ACCIDENTAL RELEASE MEASURES
Ventilate area. Wear personal protective equipment including a respirator. 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 acids, except nitric acid.
Air and light sensitive. Store in a dedicated acid cabinet; if an acid cabinet is not available, Store in a Flinn Chem-Saf™ bag, in a Flinn Saf-Stor™ can in a Flinn Saf-Cube™. Place in a cool, dry place away from light. Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION
Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).
Exposure guidelines: PEL 3 ppm (OSHA); Ceiling 2 ppm (ACGIH); IDLH 30 ppm

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES
Clear, colorless to pale yellow or pink liquid.
Suffocating bromine odor.
Soluble: Water and alcohol
Boiling point: 126 °C
pH: acidic
Specific gravity: 1.5
Vapor density: 2.8 (Air=1)
Technical Note: Concentrated HBr is 9M

SECTION 10 — STABILITY AND REACTIVITY
Avoid contact with bases, oxidizers, ammonia, ozone, and fluorine. Corrodes metal, including steel. Produces heat when diluted with water. Always add acid to water, never the reverse.
Shelf life: Fair, if stored safely. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION
Acute effects: Poison, corrosive.
Chronic effects: N.A.
Target organs: N.A.
ORL-RAT LD50: N.A.
IHL-RAT LC50: 2858 ppm/1H
SKN-RBT LD50: N.A.

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: Hydrobromic acid solution. Hazard class: 8, Corrosive. UN number: UN1788.

SECTION 15 — REGULATORY INFORMATION
TSCA-listed, EINECS-listed (233-113-0), RCRA code D002.

SECTION 16 — OTHER INFORMATION
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N.A. = Not available, not all health aspects of this substance have been fully investigated.
N/A = Not applicable

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

**Revision Date:** May 16, 2014