FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

SDS #: 394.00

Revision Date: March 25, 2014

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) 424-9300

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

Component Name	CAS Number	Formula	Formula Weight	Concentration
Hydrobromic acid	10035-10-6	HBr	80.91	47-49%
Water	7732-18-5	H_2O	18.00	51-53%

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.

NFPA CODE H-3

In case of fire: Use a tri-class dry chemical fire extinguisher.

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.

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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-SafTM bag, in a Flinn Saf-StorTM can in a Flinn Saf-CubeTM. 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); Immediately dangerous 30 ppm (IDLH-NIOSH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear, colorless to pale yellow or pink liquid. Suffocating bromine Boil

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

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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. ORL-RAT LD₅₀: N.A.

Chronic effects: N.A. IHL-RAT LC_{50} : 2858 ppm/1H 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: Hydrobromic acid solution. Hazard class: 8, Corrosive. UN number: UN1788.

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (233-113-0), 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.

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