SDS #: 395.30 **Revision Date:** March 25, 2014

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION						
Hydrochloric Acid Solution, Less than 0.1M						
Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261						
CHEMTREC Emergency Phone Number: (800) 424-9300	Signal Word	WARNING	Pictograms			
SECTION 2 — HAZARDS IDENTIFICATION						
Hazard class: Acute toxicity, oral, dermal, and inhalation (Category 5). Nor in contact with skin (H303+H313+H333).	lay be harmful if	swallowed, inhaled				
Hazard class: Skin and serious eye damage, corrosion or irritation (Categ irritation (H315+H320).	ory 2, 2B). Caus	es skin and eye				
Industrial exposure to hydrochloric acid vapors and mists is listed as a kn (IARC-1).	own human carc	inogen by IARC				

SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Hydrochloric acid	7647-01-0	HCl	36.46	<2%
Water	7732-18-5	H_2O	18.00	>98%

SECTION 4 — FIRST AID MEASURES

Call POISON CENTER or physician if you feel unwell (P312). **If inhaled:** Call a POISON CENTER or physician if you feel unwell (P304+P312). **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 eye irritation persists: Get medical advice or attention (P337+P313). If on skin: Wash with plenty of water (P302+P352). If skin irritation occurs: Get medical advice or attention (P332+P313).

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution. **In case of fire:** Use a tri-class dry chemical fire extinguisher. NFPA Code None established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area and 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.

Hydrochloric Acid Solution, Less than 0.1M

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #9. Store with acids, except nitric acid. Store in a dedicated acid cabinet or in chemical storage area isolated from metals and bases.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Exposure guidelines: (as concentrated HCl) Ceiling 5 ppm (OSHA); Ceiling 2 ppm (ACGIH); IDLH 50 ppm (OSHA). Irritation threshold is ~ 5 ppm so any irritation is sign of exposure (per OSHA)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear, colorless liquid. Slight acrid odor. Soluble: Water and alcohol pH: 1-2

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers, bases, amines, and alkali metals. Corrodes metal. Shelf life: Good, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritating to skin, eyes and respiratory tract. Chronic effects: Erodes tooth enamel. Target organs: Respiratory tract, teeth, skin. ORL-RBT LD₅₀: 900 mg/kg (as concentrated HCl) IHL-RAT LC₅₀: 3124 ppm/1hour (as concentrated HCl) SKN-RBT LD₅₀: N.A.

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

SECTION 12 — ECOLOGICAL INFORMATION

Does not biodegrade in soil, may be toxic to aquatic life.

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: Hydrochloric acid. Hazard class: 8, Corrosive. UN number: UN1789.

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-595-7), 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. **Revision Date:** March 25, 2014