

Material Safety Data Sheet (MSDS)

395.30

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Hydrochloric Acid Solution (0.5 M - 3 M)

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Hydrochloric acid (7647-01-0) 2-10% and Water (7732-18-5) 90-98%.

Concentration: 0.5 M-3 M

SECTION 3 — HAZARDS IDENTIFICATION

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, followed by a gastric antacid, such as milk of magnesia. Call a physician or poison control at once.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear liquid with a pungent odor.
Solubility: Soluble in water and alcohol.
Formula: HCl
Formula weight: 36.46

SECTION 10 — STABILITY AND REACTIVITY

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

SECTION 11 — TOXICOLOGICAL INFORMATION

ORL-RBT LD₅₀: 900 mg/kg as hydrochloric acid
IHL-RAT LC₅₀: 3124 ppm/1hour as hydrochloric acid
SKN-RBT LD₅₀: N.A.

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

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (231-595-7), RCRA code D002.

SECTION 16 — OTHER INFORMATION

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