

MATERIAL SAFETY DATA SHEET

Conforms to ANSI Z400.1 and is in compliance with 29 CFR 1910

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Section 1: Product Identification

Product name:

VC-100 Titration Acid

Synonyms:

Hydrochloric Acid (HCl) Solution ($\leq 2.0N$)

Section 2: Composition

CAS #	Hazardous Component	% by weight
7732-18-5	Water	> 92.7%
7647-01-0	Hydrochloric Acid	$\leq 7.3\%$

Carcinogenic Chemicals: No Carcinogens identified

Section 3: Hazards Identification

Precautionary Statements: Danger: Corrosive, Caustic, and Sensitizer

- Specific health risks:**
Burns, irritation to exposed organs/areas
- Specific target organs:**
Respiratory system, eyes, skin, circulatory system, mucous membranes
- Signs and symptoms of exposure:**
May cause dermal irritation and burns
May cause respiratory and digestive tract irritation with possible burns
May cause eye injury
Vapor or mist may cause irritation and burns
May cause painful sensitization to light
May cause conjunctivitis

Section 4: First Aid Measures

List specific first aid measures for:

- Skin Contact** - Rinse exposed area with copious amounts of water for at least 15 minutes, while removing all contaminated clothing. Any contaminated clothing should be washed before reuse. Seek medical attention if skin irritation persists.
- Eye contact** - Flush eyes with copious amounts of water for at least 30 minutes. Ensure areas under eyelids are rinsed. Seek medical attention immediately.
- Ingestion** - Do NOT induce vomiting. If victim is conscious and alert, give plenty of water to drink. Never give anything by mouth to an unconscious person. Seek medical attention immediately.
- Inhalation** - Remove victim to fresh air. If not breathing; provide artificial respiration. Seek medical attention immediately.

Section 5: Fire Fighting Measures

Conditions of flammability	N/A
Media to extinguish fire	Use water spray or fog
Haz. Combustion products	Flammable Hydrogen gas
Sensitivity to impact	N/A
Sensitivity to static	N/A
Flash point	N/A
Auto ignite temp	N/A
NFPA Rating (estimated)	Health: 2; Flammability: 0; Instability: 0

Section 6: Accidental Release Measures

Spill clean-up procedure:

Use absorbent material to soak up spill or leak. Keep segregated. Dispose of saturated absorbent material as required by local, state or federal laws.

PPE needed for clean up:

Chemical resistant gloves, lab coat or other items to protect any body areas or clothing that might come in contact with spill.

Follow-up guidelines:

Flush spill area with water.

Section 7: Handling and Storage

Handling	Avoid contact with eyes, skin or clothing	Storage	In a cool, dry, ventilated area
PPE	Gloves, face shield, lab coat	Temp	As indicated on packaging
Warnings	Corrosive	To avoid	Heat, flame, and direct sunlight. Store away from incompatible substances.

Section 8: Exposure Control and Personal Protection Equipment (PPE)

PPE: Standard Laboratory: Gloves, face shield (or goggles), lab coat (or apron)

Engineering control recommendations: General room ventilation

Additional suggestions for protective equipment: N/A

Section 9: Physical and Chemical Properties

Physical state	Liquid	Evaporation rate	>1 (N-butyl Acetate=1)
Odor/appearance	Pungent/Clear, colorless	Boiling point	81.5-110 °C @ 760mm Hg
Specific gravity	1.16 (water=1)	Freezing point	-17°C
Vapor pressure	160mm Hg @ 20°C	pH	Acidic
Vapor density	1.26 (air=1)		

Section 10: Stability and Reactivity

- Stability:**
Stable
- Conditions under which the product is chemically unstable:**
Excess heat, metals
- Substance or class of substance with which the product is incompatible:**
Incompatible with bases and metals.
- Hazardous decomposition products:**
Hydrogen gas, carbon dioxide, hydrogen chloride, chlorine, carbon monoxide

Section 11: Toxicological Properties

Under normal use, this product poses a negligible hazard. However, in keeping with standard laboratory safety practices, precautions should be taken to avoid exposure.

Route of entry	Skin, eye, respiratory or digestive tracts
Exposure	Physical reaction may be mild, but should be immediate
Exposure limits	OSHA Permissible Exposure Limit (PEL): 5 ppm (Ceiling)
Carcinogenicity	Not listed as carcinogens or suspect carcinogens
Irritancy	Can irritate with minimal exposure

Section 12: Ecological Information

Ecological effects of this mixture have not been determined.

Section 13: Disposal Considerations

To the best of our knowledge, this material does not require special disposal considerations. Adhere to local, state and federal regulations with regard to disposal of this product.

Section 14: Transport Information

Proper Shipping Name: HYDROCHLORIC ACID

Hazard Class: 8

UN/NA: UN1789

Packing Group: III

Section 15: Regulatory Information

U.S. Federal Regulations

TSCA 8(b) inventory: Hydrochloric acid; Water
SARA 302/304/311/312 extremely hazardous substances:
Hydrochloric acid
SARA 302/304 emergency planning and notification:
Hydrochloric acid
SARA 302/304/311/312 hazardous chemicals: Hydrochloric acid
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Hydrochloric acid
Sudden Release of Pressure, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard
SARA 313 toxic chemical notification and release reporting.
Hydrochloric acid 6.93%
Clean Water Act (CWA) 307: No products were found
Clean Water Act (CWA) 311: Hydrochloric acid
Clean Air Act (CAA) 112 accidental release prevention:
Hydrochloric acid
Clean Air Act (CAA) 112 regulated flammable substances: No products were found
Clean Air Act (CAA) 112 regulated toxic substances:
Hydrochloric acid

WHMIS (Canada)

Class D-2B: Material causing other toxic effects (TOXIC)
CLASS E: Corrosive liquid
CEPA DSL: Hydrochloric acid: Water
This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

International Regulations**EINECS**

Hydrochloric acid 231-595-7
Water 231-791-2

DSCL (EEC)

R34-Causes burns

International Lists

Australia (NICNAS): Hydrochloric acid; Water
Japan (MITI): Hydrochloric acid; Water
Korea (TCCL): Hydrochloric acid, Water
Philippines (RA6969): Hydrochloric acid; Water
China: No products were found

State Regulations

Pennsylvania RTK: Hydrochloric acid: (environmental hazard, generic environmental hazard)
Massachusetts RTK: Hydrochloric acid
New jersey: Hydrochloric acid 2.000N
California prop. 65: No products were found

Section 16: Other

This product is intended for use as supplied. Adulteration by dilution or addition of any materials to the product as supplied invalidates any diagnostic use of the product.

Streck provides no warranties, either express or implied. It assumes no responsibility for the accuracy or completeness of this material safety data sheet.