

Columbus Chemical Industries

Chemtrec # (800) 424-9300
National Response Center # (800) 424-8802

**MATERIAL
SAFETY DATA
SHEET**

9218

020843

SB10450

Hydrochloric Acid, 0.1N

Page:
Issued: 08/15/86

Effective: 08/07/86

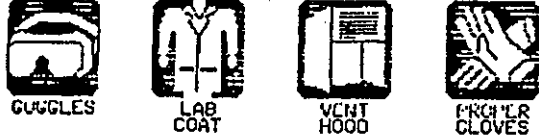
SECTION I - PRODUCT IDENTIFICATION

Product Name:	Hydrochloric Acid, 0.1N	Columbus Chemical Industries, Inc. N4335 Temkin Road Columbus, WI 53925 (414) 623-2140
Formula:	HCl in H ₂ O	
Formula Wt:	36.46	
CAS No.:	07647-01-0	
Product Codes:		

PRECAUTIONARY LABELLING

HEALTH 2 MODERATE	FLAMMABILITY 0 NONE	REACTIVITY 2 MODERATE	CONTACT 2 MODERATE
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Laboratory Protective Equipment



Precautionary Label Statements

WARNING!
HARMFUL IF SWALLOWED
CAUSES IRRITATION

Do not get in eyes, on skin, on clothing.
Keep in tightly closed container. Wash thoroughly after handling.

SECTION II - HAZARDOUS COMPONENTS

Component	%	CAS No.
Hydrogen Chloride	.3-.4	7647-01-0

SECTION III - PHYSICAL DATA

Boiling Point:	N/A	Vapor Pressure(mmHg):	N/A
Melting Point:	N/A	Vapor Density(air=1):	N/A
Specific Gravity: 1.19 (H ₂ O=1)		Evaporation Rate: (Butyl Acetate=1)	N/A

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SECTION III - PHYSICAL DATA (Continued)

Solubility(H₂O): Complete (in all proportions) % Volatiles by Volume: 100

Appearance & Odor: Clear, colorless liquid.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A

Flammable Limits: Upper - N/A % Lower - N/A %

Fire Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Special Fire-Fighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Toxic Gases Produced

hydrogen chloride, hydrogen gas

SECTION V - HEALTH HAZARD DATA

PEL and TLV listed denote ceiling limit.

Threshold Limit Value (TLV/TWA): 7 mg/m³ (5 ppm)

Permissible Exposure Limit (PEL): 7 mg/m³ (5 ppm)

Toxicity:	LD ₅₀ (ipr-mouse)(mg/kg)	-	40
	LD ₅₀ (oral-rabbit)(mg/kg)	-	900
	LC ₅₀ (inhl-rat-1H) (ppm)	-	3124

Carcinogenicity: NTP: No IARC: No Z List: No OSHA reg: No

Effects of Overexposure

Contact with skin or eyes may cause irritation.

Medical Conditions Generally Aggravated By Exposure

None Identified

Routes Of Entry

ingestion, inhalation, skin contact, eye contact

Emergency and First Aid Procedures

CALL A PHYSICIAN.

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SECTION V - HEALTH HAZARD DATA (Continued)

If swallowed, do NOT induce vomiting; if conscious, give water, milk, or milk of magnesia.
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use.

Toxicity test results and safety and health effects are based on the solute.

SECTION VI - REACTIVITY DATA

Stability: Stable Hazardous Polymerization: Will not occur
Conditions to Avoid: none documented

Decomposition Products: hydrogen chloride

SECTION VII - SPILL AND DISPOSAL PROCEDURES

Steps to be taken in the event of a spill or discharge

Wear self-contained breathing apparatus and full protective clothing. Stop leak if you can do so without risk. Ventilate area. Neutralize spill with soda ash or lime. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

Disposal Procedure

Dispose in accordance with all applicable federal, state, and local environmental regulations.

SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

Ventilation: Use adequate general or local exhaust ventilation to keep vapor and mist levels as low as possible.

Respiratory Protection: None required where adequate ventilation conditions exist. If airborne concentration is high, a chemical cartridge respirator with acid cartridge is recommended. If concentration exceeds capacity of cartridge respirator, a self-contained breathing apparatus is advised.

Eye/Skin Protection: Safety goggles and face shield, uniform, protective suit, acid-resistant gloves are

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SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT (Continued)

recommended.

SECTION IX - STORAGE AND HANDLING PRECAUTIONS

Storage Color Code:

Special Precautions

Keep container tightly closed. Suitable for any general chemical storage area.

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

DOMESTIC (D.O.T.)

Proper Shipping Name	Hydrochloric acid, solution
Hazard Class	Corrosive material (liquid)
UN/NA	UN1789
Labels	CORROSIVE
Reportable Quantity	5000 LBS.

INTERNATIONAL (I.M.O.)

Proper Shipping Name	Hydrochloric acid, solution, mixture
Hazard Class	8
UN/NA	UN1789
Labels	CORROSIVE

N/A = Not Applicable or Not Available

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