

Hydrochloric Acid ACS Premium Trace

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Hydrochloric Acid ACS Premium Trace

Synonyms/Generic Names: None

Product Number: 2525

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc. N4335 Temkin Rd. Columbus, WI. 53925

For More Information: 920-623-2140 (Monday-Friday 8:00-4:30) www.columbuschemical.com

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Hazard Not Otherwise Classified (HNOC): None

Target Organ(s): Kidneys, liver, mucous membranes, upper respiratory tract, skin, eyes, circulatory system, teeth

Signal Words: Danger

Pictograms:



GHS Classification:

Corrosive to metals	Category 1
Skin corrosion	Category 1B
Serious eye damage	Category 1
Specific target organ toxicity-single exposure	Category 3

GHS Label Elements, including precautionary statements:

Hazard Statements:

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

Precautionary Statements:

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Keep only in original container.		
Do not breathe dust/fume/gas/mist/vapors/spray.		
Wash hands thoroughly after handling.		
Use only outdoors or in a well-ventilated area.		
Wear protective gloves/protective clothing/eye protection/face protection.		
IF SWALLOWED: Rinse mouth. Do not induce vomiting.		
IF INHALED: Remove person to fresh air and keep comfortable for		
breathing.		
IF IN EYES: Rinse cautiously with water for several minutes. Remove		
contact lenses, if present and easy to do. Continue rinsing.		
Immediately call a POISON CENTER/doctor/physician.		
Wash contaminated clothing before reuse.		
Absorb spillage to prevent material-damage.		
Store in a well-ventilated place. Keep container tightly closed.		
Store locked up.		
Store in corrosive resistant container with a resistant liner.		
Dispose of contents/container in accordance with local regulations.		

Potential Health Effects

Causes eye burns.
Foxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes
and upper respiratory tract.
Harmful if absorbed through skin. Causes skin burns.
Harmful if swallowed.
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NFPA Ratings

Health	3
Flammability	0
Reactivity	1
Specific hazard	Not Available

HMIS Ratings

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Health	3
Fire	0
Reactivity	1

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Hydrochloric Acid	36-40	7647-01-0	231-595-7	HCI	36.46 g/mol
Water	Balance	7732-18-5	231-791-2	H ₂ O	18.00 g/mol

4. FIRST-AID MEASURES

Eyes	Immediately rinse with plenty of water for at least 15 minutes and seek medical attention immediately.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention immediately.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Product is not flammable. Use appropriate media for adjacent fire. Cool containers with water.
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Specific hazards arising from the chemical	Emits toxic (hydrogen chloride gas) fumes under fire conditions. (See also Stability and Reactivity section).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Neutralize spill with sodium bicarbonate or lime. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Exposure Limits	Basis	Entity
Hydrogen Chloride	2 ppm 2.98 mg/m ³	CEIL	ACGIH
	5 ppm 7 mg/m ³	CEIL	OSHA
	5 ppm 7 mg/m ³	CEIL	NIOSH
	50 ppm	IDLH	OSHA

Occupational exposure controls:

TWA: Time Weighted Average over 8 hours of work.

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

Personal Protection

Eyes	Wear chemical safety glasses or goggles, and face shield.
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.
Skin	Wear nitrile or rubber gloves, and full body suit. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear, colorless to light yellow liquid.
Odor	Strong, pungent odor.
Odor threshold	0.25-10 ppm
pH	Acidic.
Melting point/freezing point	-30°C (-22°F)
Initial boiling point and boiling range	50.5°C (122.9°F)
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Explosive
Vapor pressure	227 hPa (170 mmHg) at 21.1°C (70°F)
	547 hPa (410 mmHg) at 37.7°C (99.9°F)
Vapor density	1.267 (air=1)
Specific gravity	1.18 (water = 1)
Solubility (ies)	Soluble in water, diethyl ether.
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Uncontrolled additions of water.
Incompatible Materials	Metals, oxidizing agents, organic materials, alkalis, water.
Hazardous Decomposition Products	Hydrogen chloride gas.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	Not Available	
Eyes	Not Available	
Respiratory	atory Not Available	
Ingestion	LD50 – Rabbit – 900 mg/kg	

Carcinogenicity

IARC	3: Not classifiable as to its carcinogenicity to humans (hydrochloric acid).	
ACGIH	A4: Not classifiable as a human carcinogen (hydrochloric acid).	

NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Irritation and burns.	
Eyes	Severe eye irritation, conjunctivitis, burns, corneal necrosis.	
Respiratory	Irritation, pain, inflammation of upper respiratory tract and mucous membranes,	
	coughing, sneezing, choking.	
Ingestion	Irritation, burning, ulceration, fever, vomiting, nausea, diarrhea, thirst, difficulty	
_	swallowing, salivation.	

Chronic Toxicity	ronic Toxicity May damage organs.	
Teratogenicity	Not Available	
Mutagenicity	May alter genetic material.	
Embryotoxicity Not Available		
Target Organ(s)	Kidneys, liver, mucous membranes, upper respiratory tract, skin, eyes,	
	circulatory system, teeth.	
Reproductive Toxicity	Not Available	
Respiratory/Skin Sensitization	/Skin Sensitization Not Available	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	LC50 – Gambusia affinis – 282 mg/L – 96h		
Aquatic Invertebrate	Not Avai	Not Available	
Terrestrial	Not Available		
Persistence and Degra	adability	Not Available	
Bioaccumulative Potential		Not Available	
Mobility in Soil		Not Available	
PBT and vPvB Assessment		Not Available	
Other Adverse Effects		Not Available	

13. DISPOSAL CONSIDERATIONS

Waste Product or Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product or residue.
Product	Users should review their operations in terms of the applicable federal/national or
Containers	local regulations and consult with appropriate regulatory agencies if necessary
	before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	UN1789, Hydrochloric acid, 8, pg II
TDG	UN1789, HYDROCHLORIC ACID, 8, PG II
IMDG	UN1789, HYDROCHLORIC ACID, 8, PG II

Marine Pollutant	No
IATA/ICAO	UN1789, Hydrochloric acid, 8, pg II

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA Active inventory.
DSL / NDSL	All ingredients are listed on the DSL inventory.
California Proposition 65	Not Listed
Rhode Island: Hazardous Substance List	Listed: Hydrochloric Acid
Massachusetts: Toxic or Hazardous Substance List,	Listed: Hydrochloric Acid
Right to Know	
Pennsylvania: Hazardous Substance List	Listed: Hydrochloric Acid
New Jersey: Right to Know Hazardous Substance	Listed: Hydrochloric Acid
List	
SARA 302	Not Listed
SARA 304	Not Listed
SARA 311	Reactive Hazard, Acute Health Hazard, Chronic
	Health Hazard
SARA 312	Reactive Hazard, Acute Health Hazard, Chronic
	Health Hazard
SARA 313	Not Listed
WHMIS Canada	Class D1A: Poisonous and infectious material -
	Immediate and serious effects – Very toxic.
	Class E: Corrosive material.

16. OTHER INFORMATION

Revision	Date
Original	08/08/2018
Revision 1	02/07/2022

Disclaimer: The information provided in this Safety Data Sheet ("SDS") is correct to the best of our knowledge, information, and belief at the date of publication. The information in this SDS relates only to the specific Product identified under Section 1, and does not relate to its use in combination with other materials or products, or its use as to any particular process. Those handling, storing, or using the Product should satisfy themselves that they have current information regarding the particular way the Product is handled, stored or used and that the same is done in accordance with federal, state and local law. WE DO NOT MAKE ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE. WE DO NOT ASSUME RESPOSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, INJURY, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT.