

**Section 1: Identification**

<b>Product Name</b>	HYDROCHLORIC ACID, NF	
<b>Commercial Name</b>	N/A	
<b>Product Use</b>	For use as excipient	
<b>Restrictions On Use</b>	N/A	
<b>Product Code</b>	30-5196	
<b>Company</b>	PCCA 9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760	In case of emergency contact: <b>CHEMTREC (24hr) 1-800-424-9300</b>

**Section 2: Hazard(s) Identification**

**OSHA Haz Com:** This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Signal Word** DANGER

**Hazard Statement(s)** May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation

**Pictogram(s) or Symbol(s)**


**Precautionary Statement(s):**

<b>Prevention</b>	Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection
<b>Response</b>	Use only outdoors or in a well-ventilated area Keep only in original container Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion IF SWALLOWED: Rinse mouth. DO NOT induce vomiting
<b>Storage</b>	Store locked up Store in a well-ventilated place. Keep container tightly closed Store in corrosive resistant polypropylene container with a resistant liner Store in a dry place
<b>Disposal</b>	Dispose of contents/container to an approved waste disposal plant

**Section 3: Composition/Information on Ingredients**

<b>Substance/Mixture</b>	Mixture
<b>Components</b>	Water, Hydrochloric Acid
<b>% By Weight</b>	62-65, 35-38
<b>CAS#</b>	7732-18-5, 7647-01-0
<b>Molecular Weight</b>	55.55
<b>Chemical Formula</b>	HCL
<b>Synonym(s)</b>	Muriatic acid; Hydrogen chloride; HCl (Technical/Certified ACS Plus/Optima/NF/FCC)

**Mixtures**

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Water	7732-18-5	62-65	N/A	N/A
Hydrochloric Acid	7647-01-0	35-38	N/A	N/A

**Section 4: First-Aid Measures**

<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
<b>Ingestion</b>	Do NOT induce vomiting. Call a physician or poison control center immediately
<b>Symptoms/Effects</b>	
<b>Acute</b>	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
<b>Delayed</b>	N/A
<b>Immediate Medical Attention</b>	Treat symptomatically

**Section 5: Fire-Fighting Measures****Suitable Extinguishing Media**

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire

**Unsuitable Extinguishing Media**

No information available

**Products of Combustion**

Hydrogen chloride gas

**Firefighters Special Equipment and Precautions**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Section 6: Accidental Release Measures**

**Personal Precautions** Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not get in eyes, on skin, or on clothing. **Environmental Precautions** Should not be released into the environment. See Section 12 for additional Ecological Information. **Methods for Containment and Clean Up:** Soak up with inert absorbent material. Keep in suitable, closed containers for disposal

**Section 7: Handling and Storage**

**Handling:** Wear personal protective equipment/face protection. Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. **Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Incompatible Materials. Metals. Strong oxidizing agents. Bases. sodium hypochlorite. Amines. Fluorine. Cyanides. Alkaline.

**Section 8: Exposure Controls/Personal Protection**



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For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

HYDROCHLORIC ACID, NF

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### Exposure Limits

Component Hydrochloric acid ACGIH TLV Ceiling: 2 ppm OSHA PEL Ceiling: 5 ppm Ceiling: 7 mg/m<sup>3</sup> (Vacated) Ceiling: 5 ppm (Vacated) Ceiling: 7 mg/m<sup>3</sup> NIOSH IDLH IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m<sup>3</sup> MEXICO OEL (TWA) Ceiling: 2 ppm Legend ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health Engineering Measures Ensure that eyewash stations and safety showers are close to the workstation location. Personal Protective Equipment Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Hygiene Measures

### Engineering Controls Personal Protection

Page 4 / 8 Handle in accordance with good industrial hygiene and safety practice. Ensure that eyewash stations and safety showers are close to the workstation location. Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure. Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	Colorless		
<b>Odor</b>	Pungent		
<b>Odor Threshold</b>	No information available		
<b>Melting Point</b>	-35 °C / -31 °F	<b>pH</b>	<1
<b>Freezing Point</b>		<b>Vapor Pressure</b>	125 mbar @ 20 °C
<b>Boiling Point/Range</b>	57 °C / 135 °F @ 760 mm	<b>Vapor Density</b>	1.27
<b>Decomposition temperature</b>	No information available	<b>Viscosity</b>	1.8mPa.s @ 15°C
<b>Partition Coefficient:</b> n-octanol/water	No data available	<b>Evaporation Rate</b>	No information available
<b>Flash Point</b>	No information available	<b>Autoignition temperature</b>	No information available
<b>Flammability</b>	Not applicable	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	No data available
		<b>Upper</b>	No data available
<b>Solubility(ies)</b>	Soluble in water		
<b>Other</b>	N/A		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	None known, based on information available
<b>Chemical Stability</b>	Stable under normal conditions
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Incompatible products. Excess heat
<b>Incompatible Materials</b>	Metals, Strong oxidizing agents, Bases, sodium hypochlorite, Amines, Fluorine, Cyanides,
<b>Hazardous Decomposition Products</b>	Hydrogen chloride gas

**Section 11: Toxicological Information**

<b>RTECS</b>	N/A
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**Acute Toxicity**

Product Information Oral LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Dermal LD50 Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Vapor LC50 Based on ATE data, the classification criteria are not met. ATE > 20 mg/l

**Skin Corrosion/Irritation**

Causes burns by all exposure routes

**Serious Eye Damage/Irritation**

No information available

**Respiratory or Skin Sensitization**

No information available

**Germ Cell Mutagenicity**

No information available.

**Carcinogenicity**

Ingredients are not listed as a carcinogen

**Reproductive Toxicity**

No information available.

**Routes of Entry**

Component Water Hydrochloric acid LD50 Oral - 238 - 277 mg/kg ( Rat ) LD50 Dermal - > 5010 mg/kg ( Rabbit ) LC50 Inhalation 1.68mg/L ( Rat ) 1 h

**Symptoms Related to Exposure**

None known

**Potential Health Effects**

Single exposure: Respiratory system

**Target Organ(s)** No information available.

**Section 12: Ecological Information****Ecotoxicity**

Do not empty into drains. Large amounts will affect pH and harm aquatic organisms. Component Hydrochloric acid Freshwater Algae - Freshwater Fish 282 mg/L LC50 96 h Gambusia affinis mg/L LC50 48 h Leucscus idus Microtox - Water Flea 56mg/L EC50 72h Daphnia

**Persistence and Degradability**

Persistence is unlikely based on information available.

**Bioaccumulative Potential**

No information available

**Mobility in Soil**

Will likely be mobile in the environment due to its water solubility

**Other Adverse Effects**

N/A

**Section 13: Disposal Considerations****Waste Disposal**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**Disposal of Container**

N/A

**Other Considerations**

N/A

**Section 14: Transport Information****DOT Classification**

UN-No UN1789 Proper Shipping Name HYDROCHLORIC ACID Hazard Class 8 Packing Group II

**Section 15: Regulatory Information****Regulations**

United States of America Inventory Component CAS No TSCA TSCA Inventory notification - Active-Inactive TSCA - EPA  
Regulatory Flags Water 7732-18-5 X ACTIVE - Hydrochloric acid 7647-01-0 X ACTIVE - Legend:

**Other**



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TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed TSCA 12(b) - Notices of Export Not applicable International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL). Component CAS No DSL NDSL EINECS PICCS ENCS ISHL AICS IECSC KECL Water 7732-18-5 X - 231-791-2 X X X KE-35400 Hydrochloric acid 7647-01-0 X - 231-595-7 X X X X KE-20189 KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>) U.S. Federal Regulations SARA 313 Component CAS No Weight % SARA 313 - Threshold Values % Hydrochloric acid 7647-01-0 35-38 1.0 SARA 311/312 Hazard Categories See section 2 for more information CWA (Clean Water Act) Component CWA - Hazardous Substances CWA - Reportable Quantities CWA - Toxic Pollutants CWA - Priority Pollutants Hydrochloric acid X 5000 lb - - Clean Air Act Component HAPS Data Class 1 Ozone Depletors Class 2 Ozone Depletors Hydrochloric acid X - OSHA - Occupational Safety and Health Administration Not applicable Component Specifically Regulated Chemicals Highly Hazardous Chemicals Hydrochloric acid - TQ: 5000 lb CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) Component Hazardous Substances RQs CERCLA EHS RQs Hydrochloric acid 5000 lb 5000 lb California Proposition 65 This product does not contain any Proposition 65 chemicals. U.S. State Right-to-Know Regulations Component Massachusetts New Jersey Pennsylvania Illinois Rhode Island Water - - X - - Hydrochloric acid X X X X U.S. Department of Transportation Reportable Quantity (RQ): Y DOT Marine Pollutant N DOT Severe Marine Pollutant N U.S. Department of Homeland Security This product contains the following DHS chemicals: Legend - STQs = Screening Threshold Quantities, APA = A placarded amount Component DHS Chemical Facility Anti-Terrorism Standard Hydrochloric acid Release STQs - 15000lb (concentration >=37%) Release STQs - 5000lb (anhydrous) Theft STQs - 500lb (anhydrous) Other International Regulations Mexico - Grade No information available Authorisation/Restrictions according to EU REACH Component REACH (1907/2006) - Annex XIV - Substances Subject to Authorization REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) Hydrochloric acid - Use restricted. See item 75. (see link for restriction details) Safety, health and environmental regulations/legislation specific for the substance or mixture Component CAS No OECD HPV Persistent Organic Pollutant Ozone Depletion Potential Restriction of Hazardous Substances (RoHS) Water 7732-18-5 Listed Not applicable Not applicable

### Section 16: Other Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text