

HYDROCHLORIC ACID -- Chemical Fact Sheet

<i>What is it?</i> ¹	Hydrochloric Acid is a clear to faint yellow in color liquid. Hydrochloric Acid is a member of the “mineral acid” family, a group of strong acids. Use of Hydrochloric Acid, where possible, is a safer alternative than Hydrogen Chloride gas.
<i>Where does it come from?</i>	Hydrogen Chloride can be prepared from mixing Sulfuric Acid and Sodium Chloride (table salt) or by mixing Hydrogen and Chloride gases. Hydrochloric Acid is made by dissolving Hydrogen Chloride in water.
<i>What are the common uses for it?</i>	Manufacture of chemicals Semiconductor manufacturing
<i>How is it transported in CCC?</i>	Hydrochloric Acid is shipped by truck or railcar.
<i>How is it stored in CCC?</i>	Hydrochloric Acid is stored in tanks.

Health Hazards from Exposure

<i>Exposure Route</i>	<i>Symptoms</i>	<i>First Aid</i>
Inhalation (low concentrations)	Irritates nose, throat and lungs Burning Sensation Discomfort or difficulty in breathing, coughing	Remove to fresh air. Seek medical attention if symptoms persist.
Inhalation (high concentrations & prolonged exposure)	Burning sensation Coughing, choking Pulmonary Edema Coma Death	Remove to fresh air, get medical attention including oxygen administration. Initiate CPR if breathing has stopped.
Ingestion	Digestive tract burn Abdominal pain Vomiting	DO NOT INDUCE VOMITING. Give 2-4 cupfuls of milk or water. Seek medical attention.
Eyes	Severe eye irritant Sensitivity to light Redness, swelling, eye burns	Rinse eyes with water for at least 15 minutes. Seek medical attention.
Skin	Skin irritant Burning/discomfort Redness Skin burns	Wash skin with water for 15 minutes. Remove contaminated clothing and shoes. Seek medical attention for all but minor exposure.

Contra Costa RMP/CalARP Companies
that Use, Store or Manufacture this Chemical²

General Chemical – Bay Point Works

Web Sites on the Internet

US Environmental Protection Agency and Technology Transfer Network	www.epa.gov/swerceppo www.epa.gov/ttn/uatw/hapindex.html	(800)535-0202 EPCRA Hotline (919)541-0888
National Institute of Occupational Safety & Health and the Agency for Toxic Substances and Disease Registry	www.cdc.gov/niosh http://atsdr1.atsdr.cdc.gov:8080/hazdat.html	(800)477-1544
Occupational Safety and Health Administration	www.osha.gov www.osha-slc.gov/ChemSamp_data	(202)219-8151 or (202)219-7056
ChemFinder®	http://Chemfinder.camsoft.com	(800)315-7300
International Safety Cards	http://siri.org/msds/mf/cards/list.html	
MSDS Sites	www.chem.utah.edu/msds www.msdonline.com	
Poison Control Center	www.calpoison.org	(800) 876 - 4766
California Health Service Department Sacramento	www.dhs.ca.gov	(916) 540 - 3014
Contra Costa County Health Services – Hazardous Materials Department	www.cchealth.org/gourps/hazmat	(925) 646 – 2286

This is a brief summary of information on this chemical. For more detailed information you can obtain a Material Safety Data Sheet from Contra Costa Health Services. You can also call any of the companies listed above for more information.

¹This information was obtained from the websites listed above.

²The companies listed were obtained from Business Plans submitted to Contra Costa County Health Services Department.