

SECTION 1 IDENTIFICATION	
Product Number	010-4861
Product Name	Hydrochloric Acid 3 Molar Aqueous
Trade /Chemical Synonyms	
Formula	
RTECS	None
C.A.S. #	
Health:	3
Flammability:	0
Reactivity:	0
Hazard Rating: Least Slight Moderate High Extreme 0 1 2 3 4 NA=Not Applicable NE=Not Established	

SECTION 7 HANDLING AND STORAGE
Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION	
Respiratory Protection:	NIOSH/MSHA-approved respirator
Ventilation:	Local Exhaust <input type="checkbox"/> Mechanical <input checked="" type="checkbox"/>
Protective Gloves:	NIOSH Approved Gloves
Eye Protection:	Goggles and Face Shield
Other Protective Equipment:	Wear appropriate clothing to prevent skin exposure

SECTION 2 MIXTURE COMPONENTS					
Sara 313	Component	CAS Numbe	%	Dim.	Exposure Limits
<input checked="" type="checkbox"/>	Hydrochloric Acid	CAS# 7647-01-0	25%	V/V	OSHA PEL (C) 5 ppm, (C) 7 mg/m ³
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	V/V	None Established

SECTION 3 HAZARD IDENTIFICATION (SEE ALSO SECTION 11)
Causes severe irritation and burns. May Be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

SECTION 4 FIRST AID MEASURES
FIRST AID: CALL A PHYSICIAN. SKIN: In case of contact, immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse.
EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen
INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES
Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire
Fire / Explosion Hazards: Thermal decomposition produces highly toxic fumes.
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES
Absorb spill with inert material, then place in a chemical waste container. Neutralize with a weak base.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES	
Melting Point:	Information not available
Boiling Point:	Information not available
Vapor Pressure:	Information not available
Vapor Density:	Information not available
Solubility in Water:	Soluble
Appearance /Odors:	Clear liquid, slight HCl odor
Flash Point:	Not applicable
Specific Gravity:	~1
Percent Volatile by Volume:	100%
Evaporation Rate:	Information not available
Evaporation Standard:	
Auto Ignition Temp:	Not applicable
Lower Flamm. Limit in Air:	Not applicable
Upper Flamm. Limit in Air:	Not applicable

SECTION 10 STABILITY AND REACTIVITY INFORMATION	
Stability:	Stable
Conditions to Avoid:	Avoid contact with incompatible materials.
Materials to Avoid:	Oxidizing agents, metals, bases.
Hazardous Decomposition Products:	Hydrochloric acid fumes, hydrogen, chlorine, ClOx
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

SECTION 11 ADDITIONAL INFORMATION	
Conditions aggravated/target organs: Corrosive! Persons with preexisting skin, eye and respiratory disorders may be more susceptible. Acute: Severe irritation or burns to skin, eyes, respiratory tract and digestive tract. Chronic: Dermatitis, erosion of teeth, eye damage.	

DOT Classification:	Hydrochloric Acid Solution, 8, UN1789, PG II
DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.	

Rev. No: 1 Date Entered: 8/1/2005 Approved: RMC Safety Dir. RMC