

MATERIAL SAFETY DATA SHEET

Hydrochloric Acid 0.2 Normal

SECTION 1 . Product and Company Identification

Product Name and Synonym: Hydrochloric Acid 0.2 Normal

Product Code: 275-06

Material Uses:

Manufacturer:

OFI Testing Equipment, Inc.
11302 Steeplecrest Drive
Houston, TX 77065 USA
Phone: (713) 880-9885
Fax: (713) 880-9886

Entry Date : 5/12/2010

Print Date: 7/31/2010

24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

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 2 HAZARD IDENTIFICATION

May cause 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.

Emergency Overview: As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Inhalation: Avoid breathing vapor or dust. Use with adequate ventilation.

Ingestion: May cause severe irritation and burns. May be harmful if swallowed.

Skin: Avoid contact with skin, and clothes. Wash thoroughly after handling.

Eye Contact: Avoid contact with eyes.

Aggravated by Exposure: Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects.

SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input checked="" type="checkbox"/>	Hydrochloric Acid	CAS# 7647-01-0	<2%	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 4 FIRST AID MEASURES

May cause 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.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. if irritation persists, seek medical attention.

Hydrochloric Acid 0.2 Normal

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: None Known.
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.
Dilute with Water and Flush to Sewer if Local Ordinances Allow, Otherwise, Whatever Cannot be Saved for Recovery or Recycling should be Managed in an Appropriate and Approved Waste Disposal Facility. Processing, Use or Contamination of this Product may Change the Waste Management Options. State and Local Disposal Regulations May Differ from Federal Disposal Regulations. Dispose of Container and Unused Contents in Accordance with Federal, State and Local Requirements.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required
Ventilation
Local Exhaust
Mechanical
Protective Gloves: Gloves to prevent exposure
Eye Protection: Goggles and Face Shield
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	~ 0° C	Percent Volatile by Volume:	> 99%
Boiling Point:	~ 100° C	Evaporation Rate	1
Vapor Pressure:	N/E	Evaporation Standard	Water = 1
Vapor Density:	information not available	Auto Ignition Temp	N/A
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	N/A

Hydrochloric Acid 0.2 Normal

Appearance /Odors: Colorless Upper Flamm. Limit in Air N/A
odorless liquid

Flash Point: N/A

Specific Gravity: 1

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: High temperatures

Materials to Avoid: Strong oxidizing agents, metals, bases, amines.

Hazardous Decomposition Products: Hydrogen gas, HCl fumes if heated to decomposition

Hazardous polymerization: Will Not Occur

Conditions to Avoid: None known

SECTION 11 Toxicological Information

Carcinogenic References: Hydrogen Chloride - IARC Category 3, NTP Carcinogen - Known: No

SECTION 12 Ecological Information

Environmental Fate:When Released into the Soil, this Material is Not Expected to Biodegrade. When Released into the Soil, this Material may Leach into Groundwater.

Environmental Toxicity:This material is expected to be toxic to aquatic life.

SECTION 13 Disposal Considerations

Dilute with water and flush to sewer if local ordinances allow, otherwise, whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 Transport Information

DOT Classification: Not Regulated

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

Chemical Inventory Status –
Part 1:Ingredient
Hydrogen Chloride (7647-01-0)
Water (7732-18-5)
TSCA Yes YES
EC Yes YES
Japan YES YES
Australia Yes YES

Chemical Inventory Status –
Part 2:Ingredient
Hydrogen Chloride (7647-01-0)
Water (7732-18-5)
Korea Yes YES
DSL Yes YES
NDSL No NO
Phil. Yes YES

Federal, State & International Regulations –
Part 1: Ingredient.

Hydrochloric Acid 0.2 Normal

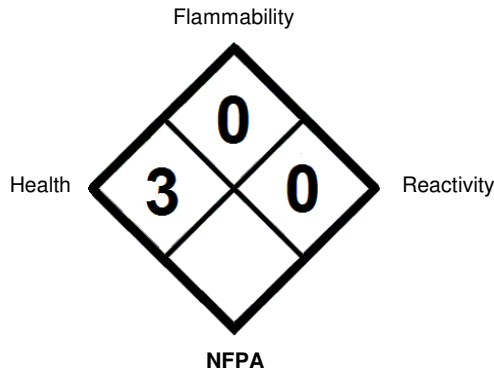
Hydrogen Chloride (7647-01-0)
Water (7732-18-5)
RQ 5000 No
TPQ 500 No
List YES NO
Chemical Catg No NO

Federal, State &
International Regulations –
Part 2:Ingredient
Hydrogen Chloride (7647-01-0)
Water (7732-18-5)
CERCLA 5000 NO
261.33 No NO
8(d) No NO

Chemical Weapons Convention: No
TSCA 12 (b):No
CDTA: YES MIXTURE/LIQUID
SARA 311/312: Acute:YES
Chronic: YES
Fire: No
Pressure: No
Reactivity: No
Australian Hazchem Code: 2R
Poison Schedule:NONE ALLOCATED

SECTION 16 Additional Information

Corrosive! Conditions aggravated/target organs: Persons with preexisting skin, eye or respiratory conditions may be more susceptible. Acute: Severe irritation or burns to skin, eyes, lungs, mucous membranes and GI tract. Skin ulcers, blindness, difficult breathing. Chronic: Dermatitis, eye damage, lung damage.



Revisions

	0	
7/30/2010	0.1	updated msds to 16 section from 10 section msds. STN

The information herein is believed to be accurate and is offered in good faith for the user's consideration and investigation. No warranty either expressed or implied is made for the completeness or accuracy of the information whether originating from the above mentioned company or not. Users of this material should satisfy themselves by independent investigation of current scientific and medical knowledge that the material can be used safely.