

# MATERIAL SAFETY DATA SHEET

Hydrochloric Acid N/10 Standardized Solution

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Hydrochloric Acid N/10 Standardized Solution

Product Code: 275-02

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	0.86%	V/V	OSHA PEL (C) 5 ppm, (C) 7 mg/m <sup>3</sup>
<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 N/10 Standardized Solution

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

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, well-ventilated place away from incompatible materials. Wash thoroughly after handling.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Gloves to prevent skin exposure as rubber or vinyl

Eye Protection: Splash Goggles

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	Information not available
Vapor Pressure:	Information not available	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	Not Applicable
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not Applicable

Hydrochloric Acid N/10 Standardized Solution

Appearance /Odors: Clear, colorless liquid with slight HCl odor Upper Flamm. Limit in Air Not Applicable

Flash Point: Not flammable

Specific Gravity: ~ 1

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability: Stable

Conditions to Avoid: None known

Materials to Avoid: Concentrated Acids and Bases, Water reactive materials.

Hazardous Decomposition Products: HCl fumes, Chlorine

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: No information found.

Environmental Toxicity: No information found.

**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

Hydrochloric Acid N/10 Standardized Solution

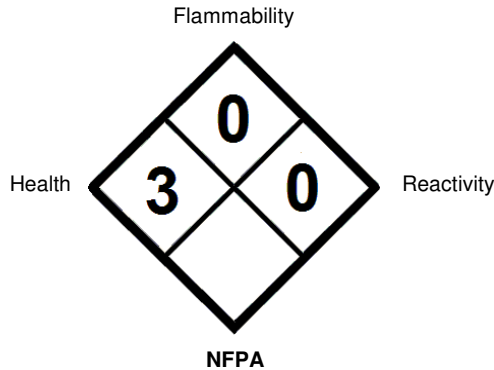
Federal, State & International Regulations –  
Part 1: Ingredient.  
Hydrogen Chloride (7647-01-0)  
Water (7732-18-5)  
RQ 5000 No  
TPQ 500 No  
List YES NO  
Chemical Catg No NO

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**

Conditions aggravated/Target organs: none known. Corrosive effects.  
Acute: Irritation possible to skin, eyes, lungs, and mucous membranes,  
itching. Chronic: none known.



**Revisions**

	NFPA	
	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.