#### MATERIAL SAFETY DATA SHEET



# Hydrochloric Acid 1.0 Normal Solution

# SECTION 1 . Product and Company Idenfication

Product Name and Synonym: Hydrochloric Acid 1.0 Normal Solution

Product Code: 4350

Material Uses:

Manufacturer: Aqua Solutions, Inc

6913 Hwy 225

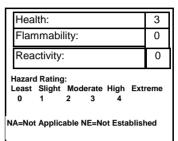
Deer Park, TX 77536

(281) 479-2569

Entry Date : 12/1/2014
Print Date: 12/1/2014

24 Hour Emergency Assistance : Chemtrec 800-424-9300

Canutec 613-996-6666



#### **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.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
	oric Acid	CAS# 7647-01- 0	~8.6%	V/V	OSHA PEL (C) 5 ppm, (C) 7 mg/m $f$
☐ Water, De Type II	eionized ASTM	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: Wash exposed area with soap and water. If irritation persists, seek medical attention.

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

Hydrochloric Acid 1.0 Normal Solution

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.

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:

NIOSH/MSHA-approved respirator.

Ventilation

Local Exhaust

Mechanical

Protective Gloves:

Wear appropriate gloves to prevent skin exposure

Eye Protection: Splash Goggles

Other Protective Equipment:

Wear appropriate clothing to prevent

skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:

information not available

Percent Volatile by Volume:

> 99%

**Boiling Point:** 

information not available

**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

Appearance /Odors:

Clear colorless

Upper Flamm. Limit in Air

Not applicable

Flash Point:

liquid/no odor

Information

not available

Specific Gravity: ~ 1

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability:
Conditions to Avoid:

Stable
Avoid Light

Hydrochloric Acid 1.0 Normal Solution

Materials to Avoid: Halides, ammonia, phosphates, bases

Hazardous Decomposition

Products:

HCL Fumes, Chlorine

Hazardous polymerization: Will Not Occur

Conditions to Avoid: None known

## SECTION 11 Toxicological Information

Toxicity data- United States- Product/ ingredient name:

Hydrochloric Acid

LD50 900 mg/kg Oral Rabbit

LC50 1108 ppm Inhalation Vapor Mouse

Carcinogenic effects: No known significant effects or critical hazards. Mutagenic effects: No known significant effects or critical hazards.

Teratogenicity/Reproductive toxicity: No known significant effects or critical hazards.

#### SECTION 12 Ecological Information

Ecotoxicity: Not available. BOD5 and COD: Not available. Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term

degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the

product itself.

Special Remarks on the Products of Biodegradation: Not available.

#### SECTION 13 Disposal Considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

## SECTION 14 Transport Information

DOT Classification: UN1789, Hydrochloric Acid Solution, 8, PG III

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

#### SECTION 15 Regulatory Information

**United States** 

HCS Classification: Target organ effects Corrosive material Highly Toxic material

U.S. Federal regulations:

United States inventory (TSCA 8b): listed

TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.

SARA 302/304/311/312 extremely hazardous substances: Hydrochloric Acid

SARA 302/304 emergency planning and notifications: Hydrochloric Acid

SARA 302/304/311/312 hazardous chemicals: Hydrochloric Acid

SARA 311/312 MSDS distribution- Chemical inventory- hazard identification: Hydrochloric Acid

Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: Hydrochloric Acid

Clean Air Act (CAA) 112 accidental release prevention: No products were found

Clean Air Act (CAA) 112 regulated flammable substance: No products were found.

Clean Air Act (CAA) 112 regulated toxic substance: No products were found

# Hydrochloric Acid 1.0 Normal Solution

DEA List I Chemicals : not listed (Precursor Chemicals) DEA List II Chemicals : listed (essential Chemicals)

**SARA 313** 

Form R – Reporting Requirements: Hydrochloric Acid CAS number: 7647-01-0 Concentration: 100

Supplier notification: Hydrochloric Acid CAS number: 7647-01-0 Concentration: 100

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

Massachusetts Substance: This material is listed.

New Jersey Hazardous Substances: This material is listed.

New York Acutely Hazardous Substances: This material is listed.

Pennsylvania RTK Hazardous Substances: This material is listed.

Canada

WHMIS (Canada) :

Class D-1A: Material causing immediate and serious toxic effects (Very toxic)

Class E: Corrosive material

Canadian lists:

CEPA Toxic Substance: This material is not listed. Canadian ARET: This material is not listed. Canadian NPRI: This material is listed.

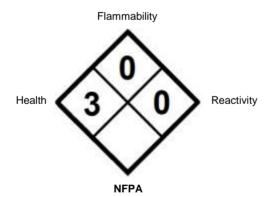
Alberta Designated Substances: This material is not listed. Ontario Designated Substances: This material is not listed. Quebec Designated Substances: This material is not listed.

CEPA DSL/ CEPA NDSL : CEPA DSL: This material is listed or exempted.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**SECTION 16** 

# **Additional Information**



#### Revisions

3/4/2009	0	Creation date LS
9/19/2013	0.1	Revised to 16 section MSDS. Ls

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.