

MATERIAL SAFETY DATA SHEET



Hydrochloric Acid 0.01 Normal in Methanol

SECTION 1 . Product and Company Identification

Product Name and Synonym: Hydrochloric Acid 0.01 Normal in Methanol

Product Code: 4095

Material Uses:

Manufacturer: Aqua Solutions, Inc
6913 Hwy 225

Deer Park, TX 77536

(281) 479-2569

Entry Date : 2/13/2013

Print Date: 2/19/2013

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

Health:	2			
Flammability:	3			
Reactivity:	0			
Hazard Rating:				
Least	Slight	Moderate	High	Extreme
0	1	2	3	4
NA = Not Applicable NE = Not Established				

SECTION 2 HAZARD IDENTIFICATION

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. 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
<input checked="" type="checkbox"/>	Hydrochloric Acid	CAS# 7647-01-0	0.08%	V/V	OSHA PEL (C) 5 ppm, (C) 7 mg/m ³
<input checked="" type="checkbox"/>	Methanol (Methyl Alcohol)	CAS# 67-56-1	Balance	V/V	OSHA TWA 200 ppm, ACGIH STEL 250 ppm

SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. 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.

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: If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Carbon Dioxide, dry chemical powder or appropriate foam

Fire / Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back.

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Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Eliminate Ignition Sources. Absorb with vermiculite or other inert material. Place in container. If fire hazard exists, blanket spill with alcohol foam or use water spray to disperse vapors.

SECTION 7 HANDLING AND STORAGE

Use in a well ventilated area. Keep container closed when not in use. Do not get on skin in eyes or on clothing. Do not expose to temperatures above 140 deg F.

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. Use in a well ventilated area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	-144 °F	Percent Volatile by Volume:	> 99
Boiling Point:	148 °F	Evaporation Rate	Information not available
Vapor Pressure:	96 mm Hg	Evaporation Standard	
Vapor Density:	1.11	Auto Ignition Temp	Information not available
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	5.5% by Vol.
Appearance /Odors:	Colorless with alcohol smell	Upper Flamm. Limit in Air	36.5% by Vol.
Flash Point:	54 °F (Open cup)		
Specific Gravity:	0.792		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: Avoid heat sparks, and open flames.

Materials to Avoid: Acids and Oxidizers

Hazardous Decomposition Products: Oxides of carbon

Hazardous polymerization: Will Not Occur

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Conditions to Avoid: None known

SECTION 11 Toxicological Information

Toxicity data

United States

Product/ingredient name – o-Methanol

Test	Route	Species	Result
LD50	Dermal	Rabbit	15800 mg/kg
LD50	Intraperitoneal	Rat	7529 mg/kg
LD50	Intravenous	Rat	2131 mg/kg
LD50	Oral	Rat	5628mg/kg
LD50	Oral	Rat	5600mg/kg
LD50	Oral	Mouse	7300mg/kg
LD50	Oral	Rabbit	14200 mg/kg

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

Aquatic ecotoxicity: Product/ ingredient name: Methanol

Result	Species	Exposure
Acute EC50 22200 to 23400 mg/L fresh water	Daphnia- water flea- Daphnia obtusa- Neonate-<24 hours	48 hours
Acute EC50 16000 mg/L	Fish	48 hours
Acute EC50 13200 mg/L	Fish	48 hours
Acute EC50>10000 mg/L	Daphnia	48 hours
Acute EC50>10000000 ug/L fresh water	Daphnia magna- 6 to 24 hours	48 hours
Acute EC50 24500000 to 29350000 ug/L fresh water	Daphnia- water flea- Daphnia magna- LARVAE- <24 hours	48 hours
Acute EC50 13000000 to 13400000 ug/L fresh water	Fish- Rainbow trout- Oncorhynchus mykiss- Juvenile (fledgling, hatchling, weanling) - 0.813g	96 hours
Acute EC50 12700000 to 13700000 ug/L fresh water	Fish- Bluegill- lepomis macrochirus- juvenile (fledgling, hatchling, weanling) - 3.07g	96 hours
Acute LC50 19 to 20 ml/L fresh water	Fish- rainbow trout, donaldson trout- oncorhynchus mykiss-0.8g	96 hours
Acute LC50 15400 mg/L	Fish	96 hours
Acute LC50 2500000ug/L fresh water	Crustaceans- Common shrimp sand shrimp- crangon cragon- adult	48 hours
Acute LC50>100000 ug/L fresh water	Fish- fathead minnow- pimephales promelas juvenile (fledgling, hatchling, weanling) - 0.2 to 0.5 g	96 hours
Acute LC50 28200000 ug/L fresh water	Fish - fathead minnow- pimephales promelas- 0.12g	96 hours
Acute LC50 28000000 ug/L marine water	Fish- bleak- Alburnus alburnus- 8 to 10 cm	96 hours
Acute LC50 >28000000 ug/L marine water	Fish- bleak- Alburnus alburnus- 8 cm	96 hours
Acute LC50 3289 to mg/L fresh water	Daphnia- water flea- Daphnia magna- neonate <24 hours	48 hours
Acute LC50 20100000 to 20700000 ug/L fresh water	Fish- rainbow trout, donaldson trout- oncorhynchus mykiss- juvenile (fledgling, hatchling, weanling) - 0.813 g	96 hours
Acute LC50 15400000 to 17600000 ug/L fresh water	Fish- bluegill- lepomis macrochirus- juvenile (fledgling, hatchling, weanling) - 3.07 g	96 hours
Acute LC50 >100 mg/L	Fish	96 hours

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Acute LC50 >100 mg/L	Daphnia	96 hours
Acute LC50 10000000 to 33000000 ug/L	Fish - hooknose- agonus cataphractus- adult	96 hours
marine water		

Environmental effects: No known significant effects or critical hazards.
Other adverse effects: No known significant effects or critical hazards.

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: UN1993, Flammable liquid n.o.s., (Methanol),
3, PG II

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:

Flammable liquid
Highly toxic material
Irritating material
Target organ effects

U.S. Federal regulations:

United States inventory (TSCA 8b): This material is listed or exempted
TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notifications: No products were found.
SARA 302/304/311/312 hazardous chemicals: Methanol
SARA 311/312 MSDS distribution- Chemical inventory- hazard identification: Methanol: Fire hazard, immediate (acute) health hazard, Delayed (chronic) health hazard
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
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.

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

SARA 313
Form R – Reporting : Methanol CAS number : 67-56-1 Concentration : 100
Requirements
Supplier notification : Methanol CAS number : 67-56-1 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 B-2 : Flammable liquid
Class D-1B: Material causing immediate and serious toxic effects (Toxic)
Class D-2A: Material causing other toxic effects (Very toxic).

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Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists : CEPA Toxic Substance: This material is not listed.

Canadian ARET: This material is not listed.

Canadian NPRI: This material is not 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 : this material is listed or exempted.

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

EU regulations:

Risk phrases: R11- Highly Flammable.

R23/24/25- Toxic by inhalation, in contact with skin and if swallowed .

R39/23/24/25- Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Safety phrases: S2- keep out the reach of children.

S7- Keep container tightly closed.

S16- Keep away from sources of ignition – no smoking

S36/37- Wear suitable protective clothing and gloves.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

International regulations

International lists: Australia inventory (AICS): This material is listed or exempted.

China inventory (IECSC): This material is listed or exempted.

Japan inventory (ENCS): This material is listed or exempted.

Japan inventory (ISHL): Not determined.

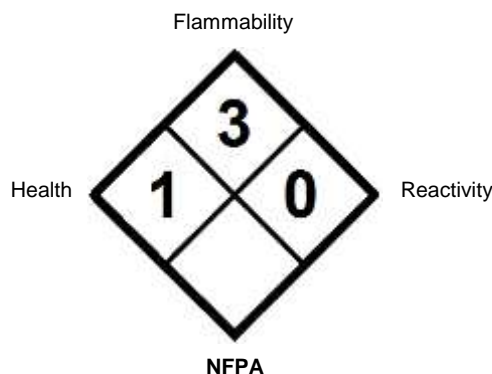
Korea inventory (KECI): This material is listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted.

Philippines inventory (PICCS): This material is listed or exempted

SECTION 16

Additional Information



Revisions

9/17/2012	0.1	Revised to 16 sections LS
2/13/2013	0	Creation date 3/4/2009 LS
2/13/2013	0.2	Review date LS

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