Printing date 06/17/2024

Reviewed on 06/17/2024

1 Identification

- · Product identifier
- Trade name: <u>Hydrochloric Acid 1.0 Normal</u> in Methanol, NIST Traceable
- Article number: 4351
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225
- DEER PARK, TX 77536 USA 800-256-2586
- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666



2 Hazard(s) identification

Classification of the substance or mixture	
GHS06 Skull and crossbones	
Acute Toxicity - Oral 3	H301 Toxic if swallowed.
Acute Toxicity - Dermal 3	H311 Toxic in contact with skin.
Acute Toxicity - Inhalation 3	H331 Toxic if inhaled.
Specific Target Organ Toxicity - Single Exposure 1	H370 Causes damage to the central nervous system and the visual organs.
GHS08 Health hazard	
Specific Target Organ Toxicity - Repeated Exposure 2	H373 May cause damage to organs through prolonged o repeated exposure.
GHS05 Corrosion	
Skin Corrosion 1B	H314 Causes severe skin burns and eye damage.
Eye Damage 1	H318 Causes serious eye damage.
Label elements GHS label elements The product is classified and labe	led according to the Globally Harmonized System (GHS). (Contd. on page

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88.378%

11.622%

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

٠j	Dangerous	components:
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CAS: 67-56-1 Methanol

CAS: 7647-01-0 Hydrochloric Acid

4 First-aid measures

· Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:

Do not induce vomiting; immediately call for medical help.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.

• Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

· Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
 Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
- Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

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		(Contd. of page 2
• Methods and ma	terial for containment and cleaning up:	
Absorb with liqui	id-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing	agent.	
Dispose contamin	nated material as waste according to section 13.	
Ensure adequate	ventilation.	
Reference to othe	er sections	
See Section 7 for	information on safe handling.	
	information on personal protection equipment.	
See Section 13 fo	r disposal information.	
Protective Action	a Criteria for Chemicals	
PAC-1:		
CAS: 67-56-1	Methanol	530 ppm
CAS: 7647-01-0	Hydrochloric Acid	1.8 ppm
• PAC-2:		
CAS: 67-56-1	Methanol	2,100 ppm
CAS: 7647-01-0	Hydrochloric Acid	22 ppm
• PAC-3:		
CAS: 67-56-1	Methanol	7200* ppm
~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Hydrochloric Acid	100 ppm

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:		
CAS: 67-56-1 Metha	nol	
PEL	Long-term value: 260 mg/m³, 200 ppm	
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin	
	(Contd. on page 5)	

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	(Contd. of page 4)
TLV	Short-term value: 250 ppm
	Long-term value: 200 ppm
CAS. 7(47.01.0 He dread laris Asid	Skin; BEIc
CAS: 7647-01-0 Hydrochloric Acid	
	Ceiling limit value: 7.0 mg/m3 mg/m ³
PEL	Ceiling limit value: 7 mg/m ³ , 5 ppm
REL	Ceiling limit value: 7 mg/m ³ , 5 ppm
TLV	Ceiling limit value: 2 ppm
	A4
Ingredients with biological limit val	lues:
CAS: 67-56-1 Methanol	
BEI 15 mg/L	
LD50 Intraperitoneal: urine	
Time: end of shift	
LD50: Methanol (background,	
Additional information: The lists th	at were valid during the creation were used as basis.
Exposure controls	
Personal protective equipment:	
General protective and hygienic me	
Keep away from foodstuffs, beverag	
Immediately remove all soiled and c	
Wash hands before breaks and at the	
Store protective clothing separately. Avoid contact with the eyes.	
Avoid contact with the eyes. Avoid contact with the eyes and skin	
Breathing equipment:	
	lution use respiratory filter device. In case of intensive or longer exposure use
respiratory protective device that is	
Protection of hands:	
dlh .	
Protective gloves	
	neable and resistant to the product/ the substance/ the preparation.
chemical mixture.	ation to the glove material can be given for the product/ the preparation/ the
	onsideration of the penetration times, rates of diffusion and the degradation
Material of gloves	insucration of the penetration times, rates of affusion and the degradation
	does not only depend on the material, but also on further marks of quality and
	acturer. As the product is a preparation of several substances, the resistance of
	ated in advance and has therefore to be checked prior to the application.
Penetration time of glove material	
	to be found out by the manufacturer of the protective gloves and has to be
observed.	
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• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on have a local and	ties	
Information on basic physical and of General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Methanol	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	<2	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Auto igniting:	455 °C (851 °F)	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	5.5 Vol %	
Upper:	44 Vol %	
Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)	
Density at 20 °C (68 °F):	0.83805 g/cm ³ (6.99353 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	88.4 %	

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		(Contd. of pa
VOC content:	88.38 % 740.6 g/l / 6.18 lb/gal	
Solids content:	0.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	113 mg/kg
Dermal	LD50	339 mg/kg
Inhalative	LC50/4h	3.39 mg/l

· Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

• on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

· Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number	
· DOT, IMDG, IATA	UN2924
\cdot UN proper shipping name	
·DOT	Flammable liquids, corrosive, n.o.s. (Methanol, Hydrochlor
	Acid)
· IMDG, IATA	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Methano
	Hydrochloric Acid)

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DOT View Class 3 Flammable liquids Label 3.8 INDG View View Class 3 Flammable liquids Label 3.8 INDG View View View Class 3 Flammable liquids Label 3/8 IATA View View View Class 3 Flammable liquids Label 3/8 DOT View View View Class 3 Flammable liquids Label 3 (8) Packing group DOT, IMDG, IATA DOT, IMDG, IATA II Environmental hazards: No Macari dientification number (Kemter code): 336 EMS wage Code SW2 Clear of living quarters. Stowage Code SW2 Clear of living quarters. Transport in bulk according to Annex II of MARPOL7378 and the IBC Code Not applicable. Transport/Additional information: On cargo aircraft/rail: 1 L. On cargo aircraft only: 5 L Maximum net quantity		(Contd. of pag
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IMDGLimited quantities (LQ)1LExcepted quantities (EQ)Code: E2Maximum net quantity per inner packaging: 30 mlMaximum net quantity per outer packaging: 500 ml	Quantity limitations	
Limited quantities (LQ)1LExcepted quantities (EQ)Code: E2Maximum net quantity per inner packaging: 30 mlMaximum net quantity per outer packaging: 500 ml		On cargo arcrași oniy. 5 L
Excepted quantities (EQ)Code: E2Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	IMDG	
Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml		
Maximum net quantity per outer packaging: 500 ml	Excepted quantities (EQ)	
Maximum net quantity per outer packaging: 500 mi (Contd. on page		

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Trade name: Hydrochloric Acid 1.0 Normal in Methanol, NIST Traceable

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· UN ''Model Regulation'':

UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHANOL, HYDROCHLORIC ACID), 3 (8), II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
CAS: 67-56-1 Methanol	
· TSCA (Toxic Substances Control Act):	
Methanol	ACTIVE
Hydrochloric Acid	ACTIVE
· Hazardous Air Pollutants	
All ingredients are listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• *TLV* (*Threshold Limit Value*) None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

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Trade name: Hydrochloric Acid 1.0 Normal in Methanol, NIST Traceable

	(Contd. of page
Hazard-determining components of labeling:	
Methanol	
Hydrochloric Acid	
Hazard statements	
Toxic if swallowed, in contact with skin or if inhaled.	
Causes severe skin burns and eye damage.	
Causes damage to the central nervous system and the visual organs.	
May cause damage to organs through prolonged or repeated exposure.	
Precautionary statements	
Do not breathe dusts or mists.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with v	vater/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lense	es, if present and easy to
Continue rinsing.	
IF exposed: Call a POISON CENTER or doctor/physician.	
Call a poison center/doctor if you feel unwell.	
Get medical advice/attention if you feel unwell.	
Take off immediately all contaminated clothing and wash it before reuse.	
Store in a well-ventilated place. Keep container tightly closed.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/internation	al regulations.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out	<i>t</i> .

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- Contact: Date of Preparation / Last Revision:
 Date of preparation / last revision Revision 0.1, 06/17/2024: Reviewed SDS for accuracy. MH/STN Creation date for SDS 08-19-2014. STN 06/17/2024 / 1.0
 Abbreviations and acronyms:
- IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LCS0: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic

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US

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Trade name: Hydrochloric Acid 1.0 Normal in Methanol, NIST Traceable

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US

vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Acute Toxicity - Oral 3: Acute toxicity – Category 3
Skin Corrosion 1B: Skin corrosion/irritation – Category 1B
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2
• * Data compared to the previous version altered.