Printing date 05/18/2023

Reviewed on 05/18/2023

Product identifier Trade name: <u>Methanol, pH 11.2</u> (adj. w/ KOH)	
Article number: CHP0864 CAS Number: 67-56-1 EC number: 200-659-6 Index number:	AQUA
603-001-00-X	
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 Emergency telephone number:	
Chemtrec: 800-424-9300 Canutec: 613-996-6666	
Canutec: 613-996-6666	
Canutec: 613-996-6666 Hazard(s) identification	
Canutec: 613-996-6666 Hazard(s) identification Classification of the substance or mixture	H225 Highly flammable liquid and vapor.
Canutec: 613-996-6666 Hazard(s) identification Classification of the substance or mixture GHS02 Flame	H225 Highly flammable liquid and vapor.
Canutec: 613-996-6666 Hazard(s) identification Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones	
Canutec: 613-996-6666 Hazard(s) identification Classification of the substance or mixture GHS02 Flame Flammable Liquids 2	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. H311 Toxic in contact with skin.
Canutec: 613-996-6666 Hazard(s) identification Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3	H301 Toxic if swallowed.
Canutec: 613-996-6666 Hazard(s) identification Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3	H301 Toxic if swallowed. H311 Toxic in contact with skin.
Canutec: 613-996-6666 Hazard(s) identification Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 GHS08 Health hazard	H301 Toxic if swallowed. H311 Toxic in contact with skin.

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(Contd. of page 1) · Hazard pictograms GHS02 GHS06 GHS08 · Signal word Danger · Hazard-determining components of labeling: Methanol · Hazard statements Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes damage to the central nervous system and the visual organs. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. 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). Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed: Call a POISON CENTER or doctor/physician. Call a poison center/doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 3 Health = 3FIRE 3 Fire = 3

REACTIVITY O Reactivity = 0

• Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

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· vPvB: Not applicable.

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3 Composition/information on ingredients

· Chemical characterization: Substances

· CAS No. Description

CAS: 67-56-1 Methanol

· Identification number(s)

- EC number: 200-659-6
- *Index number:* 603-001-00-X

4 First-aid measures

· Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

- 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.
- · 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:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.

• 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.

• *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.

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[·] Advice for firefighters

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• **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

• Protective Action Criteria for Chemicals

• PAC-1:

530 ppm • **PAC-2:**

2,100 ppm

· PAC-3:

7200* 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 ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- **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

CAS: 67-56	6-1 Methanol	
PEL Long-	-term value: 260 mg/m³, 200 ppm	
	-term value: 325 mg/m³, 250 ppm -term value: 260 mg/m³, 200 ppm	
	-term value: 250 ppm -term value: 200 ppm BEI	

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	(cond. of page -
	edients with biological limit values:
CAS:	: 67-56-1 Methanol
BEI	15 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift
	LD50: Methanol (background, nonspecific)
Addi	tional information: The lists that were valid during the creation were used as basis.
Expo	osure controls
	onal protective equipment:
Gene	ral protective and hygienic measures:
Keep	away from foodstuffs, beverages and feed.
Imme	ediately remove all soiled and contaminated clothing.
Wash	hands before breaks and at the end of work.
Store	protective clothing separately.
	d contact with the eyes and skin.
Brea	thing equipment:
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u
respi	ratory protective device that is independent of circulating air.
Prote	ection of hands:
China	Protective gloves
	glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
	to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the trical mixture.
	tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	rial of gloves
	election of the suitable gloves does not only depend on the material, but also on further marks of quality and
	s from manufacturer to manufacturer.
	tration time of glove material
	exact break through time has to be found out by the manufacturer of the protective gloves and has to b
obser	
Eye p	protection:
	Tightly sealed goggles
Body	protection: Protective work clothing
- oury	protection a reference work elements

	ysical and chemical properties	
General Information		
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Methanol	

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Trade name: Methanol, pH 11.2 (adj. w/ KOH)

Odor threshold:	(Contd. of page).
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-97.8 °C (-144 °F)
Boiling point/Boiling range:	64.4 °C (147.9 °F)
Flash point:	11 °C (51.8 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	455 °C (851 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
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):	0.7915 g/cm ³ (6.60507 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/wate	r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Organic solvents:	100.0 %
VOC content:	100.00 %
	791.5 g/l / 6.61 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.

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Trade name: Methanol, pH 11.2 (adj. w/ KOH)

(Contd. of page 6)

1 Toxicolo	aical int	formation
	v	cological effects
\cdot Acute toxic		
· LD/LC50	values tha	t are relevant for classification:
ATE (Acut	te Toxicity	y Estimate)
Oral	LD50	100 mg/kg
Dermal	LD50	300 mg/kg
Inhalative	LC50/4h	3 mg/l
CAS: 67-5	6-1 Metho	unol
Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4h	3 mg/l (ATE)
	: No irrita No irrita on: No sei	ant effect.
· Carcinoge	-	
		Agency for Research on Cancer)
Substance	is not liste	ed.
		cology Program)
Substance	is not liste	rd.
· OSHA-Ca	(Occupat	ional Safety & Health Administration)
Substance	is not liste	rd.

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 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

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Trade name: Methanol, pH 11.2 (adj. w/ KOH) Reviewed on 05/18/2023

(Contd. of page 7)

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	UN1993
· UN proper shipping name	
·DOT	Flammable liquids, n.o.s. (Methanol)
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Methanol)
· Transport hazard class(es)	
·DOT	
3	
· Class	2 Flammable liquide
· Label	3 Flammable liquids 3
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	11
· Environmental hazards:	
• Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
• Hazard identification number (Kemler code):	
· EMS Number:	F-E, <u>S-E</u>
· Stowage Category	В
• Transport in bulk according to Annex II of	Not applicable.
MARPOL73/78 and the IBC Code	

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Safety Data Sheet acc. to OSHA HCS

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(Contd. of page 8
On passenger aircraft/rail: 1 L
On cargo aircraft only: 60 L
5000 lbs, 2270 kg
1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
UN 1993 FLAMMABLE LIQUID, N.O.S. (METHANOL), 3, II

15 Regulatory information

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

· Sara

	· Section	n 355	(extremely	hazardous	substances):
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Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is listed.

· TSCA (Toxic Substances Control Act):

ACTIVE

· Hazardous Air Pollutants

Substance is listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

 \cdot Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

• TLV (Threshold Limit Value)

Substance is not listed.

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

Substance is not listed.

• GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 10)

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Trade name: Methanol, pH 11.2 (adj. w/ KOH) Reviewed on 05/18/2023

(Contd. of page 9) · Hazard pictograms GHS02 GHS06 GHS08 · Signal word Danger · Hazard-determining components of labeling: Methanol · Hazard statements Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Causes damage to the central nervous system and the visual organs. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. 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). Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed: Call a POISON CENTER or doctor/physician. Call a poison center/doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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

Revision 1.0 05/18/2023 reviewed SDS for accuracy. S.T.N. Creation date for SDS 10-05-2015 STN Revision 1.0 01-10-2022, removed fluoride and sulfate from ingredients. STN 05/18/2023

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Trade name: Methanol, pH 11.2 (adj. w/ KOH)

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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	
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)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
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	
Flammable Liquids 2: Flammable liquids – Category 2	
Acute Toxicity - Oral 3: Acute toxicity – Category 3	
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1	
* Data compared to the previous version altered.	