Safety Data Sheet acc. to OSHA HCS

Printing date 01/03/2018

1 Identification

Reviewed on 01/03/2018

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 Details of the supplier of the safety data sheet Manufacturer/Supplier: Aque Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77356 USA 800-256-2586 Information department: Technical Coordinator Sherman Netson sherman@aquasolutions.org Emergency telephone number: Chemiree: 800-424-300 Canuez: 613-996-6666 2 Hazard (9) identification Classification of the substance or mixture Wo GHS02 Flame Flam. Liq. 2. H225 Highly flammable liquid and vapor. Wo GHS02 Flame Flam. Liq. 2. H225 Highly flammable liquid and vapor. Wo GHS04 Health hazard STOT SE 1 H370 Causes damage to organs. Wo GHS05 GHS07 Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2. H315 Causes skin irritation. Ever Irrit. 2A H319 Gauses serious eye irritation. Inable leements CHS12 Elements Signal word Danger Signal word Danger Signal word Danger CHS12 Elements <l< th=""><th></th><th></th></l<>		
 Manufacturer/Supplier: Aqua Solutions, hr.: 6913 Highway 225 DER PARK, TX 7736 USA 800-256-2586 Information department: Technical Coordinator Sherman Nelson sherman@aquasolutions.org Emergency telephone number: Chemitee: 800-424-9300 Canutee: 613-996-6666 2 Integrency telephone number: Chemitee: 800-424-9300 Canutee: 613-996-6666 2 Integrency telephone number: Chemitee: 800-424-9300 Canutee: 613-996-6666 2 Integrency telephone number: GHS02 Flame Classification of the substance or mixture WWW GHS02 Flame Flam. Liq. 2 H225 Highly flammable liquid and vapor. WWWW GHS08 Health hazard STOT SE 1 H370 Causes damage to organs. WWWW GHS07 Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H315 Causes serious eye irritation. Eye Irrit. 2 H315 Causes serious eye irritation. Eye Irrit. 2 H315 Causes serious eye irritation. Hatel elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms Signal word Danger Signal word Danger Hazard-determining components of labeling: Methanol (Methyl Alcohol) 	• Article number: SPX045A	
Technical Coordinator Sherman Nelson sherman@aquasolutions.org Emergency telephone number: Chemtree: 803-924-9300 Chemtree: 613-996-6666 2 Hazard(s) identification e Classification of the substance or mixture \overleftrightarrow \overleftrightarrow GHS02 Flame Flam. Liq. 2 H225 Highly flammable liquid and vapor. \overleftrightarrow GHS08 Health hazard STOT SE 1 H370 Causes damage to organs. \overleftrightarrow GHS08 Health hazard STOT SE 1 H370 Causes damage to organs. \overleftrightarrow GHS07 Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes serious eye irritation. Eye Irrit. 2A H319 Causes serious eye irritation. Eye Irrit. 2A H319 Causes serious eye irritation. 1 Abel elements GHS tabel elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms \overleftrightarrow GHS07 GHS07 GHS08 GHS07 GHS08 GHS07 GHS08 GHS07 GHS08 GHS07 GHS08 GHS07 GHS08 GHS07 GHS08 GHS07 GHS08 GHS08 GHS08 GHS08 GHS08 GHS08 GHS08 GHS09 GHS08 G	Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA	AQUA SOLUTIONS
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	Methanol (Methyl Alcohol)	(Contd. on page 2)

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Trade name: Tetrabutylammonium Hydroxide 0.01N in Methanol

Hazard statementsHighly flammable liquid and vapor.Harmful if swallowed.Causes skin rivitation.Causes skin rivitation.Causes skin rivitation.Causes skin prom head/spark/open flames/hot surfaces No smoking.Keep container tightly closed.Ground/bond container and receiving equipment.Use explosion-proof electrical/ventilating/lighting/equipment.Use explosion-proof electrical/ventilating/lighting/equipment.Use only non-sparking tools.Take precautionary measures against static discharge.Do not breath dust/finme/gas/mist/vapors/spray.Wash throoughly after handling.Do not at, drink or smoke when using this product.Wear protective gloves/protective clothing/eye protection/face protection.If swallowed: Call a poison center/doctor if you feel unwell.If on syst. Rines cautiously with water for several minutes. Remove contact lenses. if present and easy toContinue rinsing.Specific treatment (see on this label).Rinse mouth.If swillion presists: Get medical advice/attention.If sev irritation occurs: Get medical advice/attention.Take of contaminated clothing and wash it before reuse.In case of fire: Use for extinction: CO2, powder or water spray.Store in a well-ventilated place. Keep cool.Store in contents/container in accordance with local/regional/national/international regulations. <th>II a second address and a</th> <th>(Contd. of page</th>	II a second address and a	(Contd. of page
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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to Continue rinsing. Specific treatment (see on this label). Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use for extinction: CO2, powder or water spray. 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 = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 2 Health = 2 Fire = 3 Reactivity = 0 Other hazards Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
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Continue rinsing. Specific treatment (see on this label). Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use for extinction: CO2, powder or water spray. 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 = 2 Fire = 3 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH $\begin{array}{c} 2\\ FIRE \\ 3\\ REACTIVITY \\ \end{array}$ Health = 2 Fire = 3 Reactivity = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable.		
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Results of PBT and vPvB assessment PBT: Not applicable.	Other hazards	
PBT: Not applicable.	-	
<i>v v v</i>. Not applicable.		
Composition/information on ingredients		

· Chemical characterization: Mixtures

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

(Contd. on page 3)

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Trade name: Tetrabutylammonium Hydroxide 0.01N in Methanol

 · Dangerous components:
 (Contd. of page 2)

 · CAS: 67-56-1
 Methanol (Methyl Alcohol)
 98.935%

 · CAS: 2052-49-5
 Tetrabutylammonium Hydroxide 30-Hydrate
 1.065%

4 First-aid measures

· Description of first aid measures

• General information:

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

- After inhalation: 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. If symptoms persist, consult a doctor.
- · After swallowing: 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:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: 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 item 13.

- Ensure adequate ventilation.
- · 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:

1110 11		
CAS: 67-56-1	Methanol (Methyl Alcohol)	530 ppm
CAS: 2052-49-5	Tetrabutylammonium Hydroxide 30-Hydrate	1.2 mg/m ³
		(Contd. on page 4)

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Printing date 01/03/2018

Reviewed on 01/03/2018

Trade name: Tetrabutylammonium Hydroxide 0.01N in Methanol

	(Contd. of page 3)
· PAC-2: CAS: 67-56-1 Methanol (Methyl Alcohol)	2,100 ppm
CAS: 2052-49-5 Tetrabutylammonium Hydroxide 30-Hydrate	13 mg/m ³
· PAC-3:	
CAS: 67-56-1 Methanol (Methyl Alcohol)	7200* ppm
CAS: 2052-49-5 Tetrabutylammonium Hydroxide 30-Hydrate	79 mg/m ³

7 Handling and storage

· Handling:

- · Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- · 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 item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

	· ·	
CAS	: 67-56-1 Methanol (Methyl Alcohol)	
PEL	Long-term value: 260 mg/m ³ , 200 ppm	
REL	Short-term value: 325 mg/m ³ , 250 ppm	
	Long-term value: 260 mg/m³, 200 ppm Skin	
TLV	Short-term value: 328 mg/m³, 250 ppm	
	Long-term value: 262 mg/m ³ , 200 ppm	
	Skin; BEI	
· Ingro	edients with biological limit values:	
CAS	: 67-56-1 Methanol (Methyl Alcohol)	
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.	
		(Contd. on page

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Trade name: Tetrabutylammonium Hydroxide 0.01N in Methanol

(Contd. of page 4)

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- · Breathing equipment: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and General Information Appearance:	chemical properties	
Form:	Liquid	
Color:	Clear	
· Odor:	Methanol	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	-97.8 °C (-144 °F)	
Boiling point/Boiling range:	64 °C (147.2 °F)	
Flash point:	11 °C (51.8 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	455 °C (851 °F)	

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Trade name: Tetrabutylammonium Hydroxide 0.01N in Methanol

	(Contd. of page :
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
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):	0.79202 g/cm ³ (6.60941 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wate	r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	98.9 %
VOC content:	98.94 %
	783.6 g/l / 6.54 lb/gl
Solids content:	1.1 %
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 1,200-2,799 mg/kg (rat)

Inhalative LC50/4 h 130 mg/l (rat)

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Trade name: Tetrabutylammonium Hydroxide 0.01N in Methanol

		(Contd. of page 6)
CAS: 67-5	6-1 Metha	nol (Methyl Alcohol)
Oral	LD50	100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4 h	3 mg/l (ATE)
· Primary ir		
\cdot on the skin	ı: Irritant t	to skin and mucous membranes.

• on the eye: Irritating effect.

· Sensitization: No sensitizing effects known.

· Additional toxicological information:

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

Irritant

· 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.

· 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.

- · 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.

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Trade name: Tetrabutylammonium Hydroxide 0.01N in Methanol

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Transport information	
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	
RAMANE LOXO	
Class	3 Flammable liquids
Label	3
IMDG, IATA	
Class Label	3 Flammable liquids 3
Label	3
Packing group DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	336
EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
Stowage Category	В
Transport in bulk according to Annex I	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (\widetilde{EQ})	Code: E2
-	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
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Trade name: Tetrabutylammonium

Hydroxide 0.01N in Methanol

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15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

 \cdot Section 313 (Specific toxic chemical listings):

CAS: 67-56-1 Methanol (Methyl Alcohol)

· TSCA (Toxic Substances Control Act):

Methanol (Methyl Alcohol)

Tetrabutylammonium Hydroxide 30-Hydrate

· Proposition 65

 \cdot Chemicals known to cause cancer:

None of the ingredients is listed.

 \cdot 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:

CAS: 67-56-1 Methanol (Methyl Alcohol)

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

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

• *Hazard-determining components of labeling: Methanol (Methyl Alcohol)*

· Hazard statements

Highly flammable liquid and vapor.

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

Causes damage to organs.

• **Precautionary statements** Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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Reviewed on 01/03/2018

Trade name: Tetrabutylammonium Hydroxide 0.01N in Methanol

(Contd. of page 9) Keep container tightly closed. 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. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use for extinction: CO2, powder or water spray. 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
 01-03-2018: review SDS for accuracy. STN
 Creation date for SDS 01-30-2015. STN
 01/03/2018 / Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

- DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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 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

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Trade name: Tetrabutylammonium Hydroxide 0.01N in Methanol

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Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A STOT SE 1: Specific target organ toxicity (single exposure) – Category 1