Printing date 06/05/2024

Reviewed on 06/05/2024

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- · Product identifier
- Trade name: <u>TEAB Soln in Acetic Acid</u> 20% w/v Solution (ASTM D 1652-04)
- · Article number: SPE959
- 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

Classification of the substance or mixture W GHS02 Flame Flammable Liquids 3 H226 Flammable liquid and vapor. Flammable Liquids 3 H226 Flammable liquid and vapor. W GHS05 Corrosion IB H314 Causes severe skin burns and eye damage. Eye Damage 1 H318 Causes severe skin burns and eye damage. Fye Damage 1 H318 Causes severe skin burns and eye damage. W GHS07 Acute Toxicity - Dermal 4 H312 Harmful in contact with skin. Sensitization - Skin 1 H317 May cause an allergic skin reaction. Label elements GHS02 GHS05 GHS07 Label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms GHS02 GHS05 GHS07 Signal word Danger Hazard-determining components of labeling: Acetic Acid, Glacial (Contdon page 2)	2 Hazard(s) identifica	tion
<ul> <li>Flammable Liquids 3 H226 Flammable liquid and vapor.</li> <li>GHS05 Corrosion</li> <li>Skin Corrosion 1B H314 Causes severe skin burns and eye damage.</li> <li>Eye Damage 1 H318 Causes serious eye damage.</li> <li>GHS07</li> <li>Acute Toxicity - Dermal 4 H312 Harmful in contact with skin.</li> <li>Sensitization - Skin 1 H317 May cause an allergic skin reaction.</li> <li>Label elements</li> <li>GHS08 the elements The product is classified and labeled according to the Globally Harmonized System (GHS).</li> <li>Hazard pictograms</li> <li>Signal word Danger</li> <li>Hazard-determining components of labeling: Acetic Acid, Glacial</li> </ul>	· Classification of the sub	stance or mixture
Skin Corrosion 1B H314 Causes severe skin burns and eye damage.   Eye Damage 1 H318 Causes serious eye damage.   Image 2 Image 2	GHS02 Flame	
Skin Corrosion 1B H314 Causes severe skin burns and eye damage.   Eye Damage 1 H318 Causes serious eye damage.   Image 2 GHS07   Acute Toxicity - Dermal 4 H312 Harmful in contact with skin.   Sensitization - Skin 1 H317 May cause an allergic skin reaction.   Image 2 H317 May cause an allergic skin reaction.   Image 2 Image 2      Image 2  Image 2 </td <td>Flammable Liquids 3</td> <td>H226 Flammable liquid and vapor.</td>	Flammable Liquids 3	H226 Flammable liquid and vapor.
Eye Damage 1       H318 Causes serious eye damage.         Image 1       H318 Causes serious eye damage.         Image 1       H318 Causes serious eye damage.         Acute Toxicity - Dermal 4       H312 Harmful in contact with skin.         Sensitization - Skin 1       H317 May cause an allergic skin reaction.         Image 1       H317 May cause an allergic skin reaction.         Image 1       H317 May cause an allergic skin reaction.         Image 1       H317 May cause an allergic skin reaction.         Image 2       Image 1         Image 2       Image 2	GHS05 Corro	sion
<ul> <li>GHS07</li> <li>Acute Toxicity - Dermal 4 H312 Harmful in contact with skin.</li> <li>Sensitization - Skin 1 H317 May cause an allergic skin reaction.</li> <li>Label elements</li> <li>GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).</li> <li>Hazard pictograms</li> <li>GHS02 GHS05 GHS07</li> <li>Signal word Danger</li> <li>Hazard-determining components of labeling: Acetic Acid, Glacial</li> </ul>	Skin Corrosion 1B	H314 Causes severe skin burns and eye damage.
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• Hazard-determining components of labeling: Acetic Acid, Glacial (Contd. on page 2)	• GHS label elements The • Hazard pictograms	!
Acetic Acid, Glacial (Contd. on page 2)	· Signal word Danger	
(Contd. on page 2)		nponents of labeling:
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### Trade name: TEAB Soln in Acetic Acid 20% w/v Solution (ASTM D 1652-04)

(Contd. of page 1)
· Hazard statements
Flammable liquid and vapor.
Harmful in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
· Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces No smoking.
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 dusts or mists.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use CO2, powder or water spray to extinguish.
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 = 3
Fire = 2
$\frac{3}{0} Reactivity = 0$
· HMIS-ratings (scale 0 - 4)
HEALTH 3 $Health = 3$
FIRE $2$ Fire = 2
<b>REACTIVITY</b> Reactivity = $0$
· Other hazards
· Results of PBT and vPvB assessment
· <b>PBT:</b> Not applicable.
· <b>vPvB</b> : Not applicable.
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# 3 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: TEAB Soln in Acetic Acid 20% w/v Solution (ASTM D 1652-04)

	(Contd. of page 2)
· Dangerous components:	
CAS: 64-19-7 Acetic Acid, Glacial	80.814%
CAS: 71-91-0 Tetraethylammonium Bromide, 98%	19.187%

### 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.

• After inhalation:

Supply fresh air and to be sure call for a 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: 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:

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
- $\cdot$  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: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. 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). Use neutralizing agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
Reference to other sections See Section 7 for information on safe handling.

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See Section 1	<i>3 for information on personal protection equipment.</i> <i>3 for disposal information.</i>	
	ction Criteria for Chemicals	
PAC-1:		
	7 Acetic Acid, Glacial	5 ppm
CAS: 71-91-0	0 Tetraethylammonium Bromide, 98%	1.1 mg/m
<i>PAC-2:</i>		
CAS: 64-19-7	7 Acetic Acid, Glacial	35 ppm
CAS: 71-91-0	0 Tetraethylammonium Bromide, 98%	12 mg/m
<i>PAC-3:</i>		
CAS: 64-19-7	7 Acetic Acid, Glacial	250 ppm
CAS: 71 01 (	0 Tetraethylammonium Bromide, 98%	43 mg/m

### 7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. 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: 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:

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: 64-19-7 Acetic Acid, Glacial

PEL Long-term value: 25 mg/m<sup>3</sup>, 10 ppm

- REL Short-term value: 37 mg/m<sup>3</sup>, 15 ppm
- Long-term value: 25 mg/m<sup>3</sup>, 10 ppm
- TLV Short-term value: 15 ppm Long-term value: 10 ppm

• Additional information: The lists that were valid during the creation were used as basis.

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#### Trade name: TEAB Soln in Acetic Acid 20% w/v Solution (ASTM D 1652-04)

(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. Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. • 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

<ul> <li>Information on basic physical and</li> <li>General Information</li> </ul>	chemical properties	
· Appearance:		
Form:	Liquid	
Color:	Yellow-brown	
· Odor:	Vinegar	
• Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	118 °C (244.4 °F)	
· Flash point:	40 °C (104 °F)	

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### Trade name: TEAB Soln in Acetic Acid 20% w/v Solution (ASTM D 1652-04)

	(Contd. of page 5
Flammability (solid, gaseous):	Flammable.
Auto igniting:	485 °C (905 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	4 Vol %
Upper:	17 Vol %
Vapor pressure at 20 °C (68 °F):	16 hPa (12 mm Hg)
Density at 20 °C (68 °F):	1.0424 g/cm <sup>3</sup> (8.69883 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	<b>r</b> ): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	80.8 %
VOC content:	80.81 %
	842.4 g/l / 7.03 lb/gal
Solids content:	19.2 %
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: TEAB Soln in Acetic Acid 20% w/v Solution (ASTM D 1652-04)

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### **11** Toxicological information · Information on toxicological effects · Acute toxicity: · LD/LC50 values that are relevant for classification: ATE (Acute Toxicity Estimate) LD50 10,424 mg/kg (mouse) Oral Dermal LD50 1,312 mg/kg (rabbit) · 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: Sensitization possible through skin contact. · Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Harmful 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. · 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 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

- Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- Danger to drinking water if even extremely small quantities leak into the ground.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

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· 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.* 

UN-Number DOT, IMDG, IATA	UN1760
UN proper shipping name	
DOT	Corrosive liquids, n.o.s. (Acetic Acid, Glacial
	)
IMDG, IATA	CORROSIVE LIQUID, N.O.S. (Acetic Acid, Glacial
	)
Transport hazard class(es)	
DOT	
CORROSIVE	
8	
Class	8 Corrosive substances
Label	8
IMDG, IATA	
↓ Class	8 Corrosive substances
Label	8
	0
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler o	
EMS Number:	F-A,S-B
Segregation groups	(SGG1) Acids
Stowage Category	В
Stowage Code	SW2 Clear of living quarters.

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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
·DOT	
• Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 30 L
· IMDG	
· Limited quantities (LQ)	1L
$\cdot$ Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN ''Model Regulation'':	UN 1760 CORROSIVE LIQUID, N.O.S. (ACETIC ACIL
C C	GLACIAL
	), 8, 11

### **15 Regulatory information**

<ul> <li>Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.</li> <li>Sara</li> </ul>
· Section 355 (extremely hazardous substances):
None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act): Acetic Acid, Glacial

Tetraethylammonium Bromide, 98%

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

 $\cdot$  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:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

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

None of the ingredients is listed.

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

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	<i>bel elements</i> The product is classified and labeled according to the Globally Harmonized System (GHS). <i>pictograms</i>
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<u>(</u>	
GHS0	2 GHS05 GHS07
Signal	word Danger
	-determining components of labeling:
Acetic A	Acid, Glacial
Hazara	statements
Flamm	able liquid and vapor.
Harmfi	l in contact with skin.
Causes	severe skin burns and eye damage.
May ca	use an allergic skin reaction.
	tionary statements
Keep a	way from heat/sparks/open flames/hot surfaces No smoking.
	ontainer tightly closed.
	l/bond container and receiving equipment.
	plosion-proof electrical/ventilating/lighting/equipment.
	ly non-sparking tools.
	ecautionary measures against static discharge.
Do not	breathe dusts or mists.
	horoughly after handling.
Contan	ninated work clothing must not be allowed out of the workplace.
	rotective gloves/protective clothing/eye protection/face protection.
If swall	owed: Rinse mouth. Do NOT induce vomiting.
If on sk	in (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INH	ALED: Remove person to fresh air and keep comfortable for breathing.
If in ey	es: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to de
	ie rinsing.
Immedi	ately call a poison center/doctor.
Specific	c treatment (see on this label).
Take of	f contaminated clothing and wash it before reuse.
If skin i	rritation or rash occurs: Get medical advice/attention.
	ontaminated clothing before reuse.
	of fire: Use CO2, powder or water spray to extinguish.
	a well-ventilated place. Keep cool.
	ocked up.
	e of contents/container in accordance with local/regional/national/international regulations.
Chemie	cal safety assessment: A Chemical Safety Assessment has not been carried out.

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### 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 1.2, 06/05/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN 06/05/2024 · 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) 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 Flammable Liquids 3: Flammable liquids – Category 3 Acute Toxicity - Dermal 4: Acute toxicity - Category 4 Skin Corrosion 1B: Skin corrosion/irritation - Category 1B Eye Damage 1: Serious eye damage/eye irritation - Category 1 Sensitization - Skin 1: Skin sensitisation - Category 1  $\cdot$  \* Data compared to the previous version altered.

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