Reviewed on 01/08/2018

	Reviewed on 01/08/2
Identification	
· Product identifier	
• Trade name: <u>Alcoholic Sodium Acetate</u> Solution	
• Article number: STA019B	
• 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	AQUA SOLUTIONS
· Information department:	
Technical Coordinator Sherman Nelson sherman@aquasolutions.org	
• Emergency telephone number:	
Chemtrec: 800-424-9300	
Canutec: 613-996-6666	
P. Hazard(s) identification	
· Classification of the substance or mixture	
$\mathbf{\Lambda}$	
GHS02 Flame	
<i>GHS02 Flame</i> <i>Flam. Liq. 2 H225 Highly flammable liquid and vapor.</i>	
Flam. Liq. 2 H225 Highly flammable liquid and vapor.	
Flam. Liq. 2 H225 Highly flammable liquid and vapor. GHS07 Eye Irrit. 2A H319 Causes serious eye irritation.	
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#### Trade name: Alcoholic Sodium Acetate Solution

	(Contd. of page 1)
Use explosion-proof electrical/ventilating/lighting/equipment.	(contai of page 1)
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
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 p	present and easy to do
Continue rinsing.	
Call a poison center/doctor if you feel unwell.	
If eye irritation persists: Get medical advice/attention.	
In case of fire: Use for extinction: CO2, powder or water spray.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	1
Dispose of contents/container in accordance with local/regional/national/international reg	ulations.
· Classification system: · NFPA ratings (scale 0 - 4)	
$\begin{array}{c} 2 \\ 0 \\ Reactivity = 0 \end{array}$	
· HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 3 $Fire = 3$	
<b>REACTIVITY</b> $o$ Reactivity = 0	
• Other hazards	
· Results of PBT and vPvB assessment	
• <b><i>PBT:</i></b> Not applicable.	
· <b>vPvB:</b> Not applicable.	
3 Composition/information on ingredients	
· Chemical characterization: Mixtures	
$\cdot$ <b>Description:</b> Mixture of the substances listed below with nonhazardous additions.	
· Dangerous components:	
CAS: 67-63-0 Isopropanol	99.121%
Table of Nearly mendance language disents	

· Table of Nonhazardous Ingredients		
CAS: 127-09-3	Sodium Acetate Anhydrous	0.173%
CAS: 7732-18-5	Water	0.706%

# 4 First-aid measures

· Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.

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Trade name: Alcoholic Sodium Acetate Solution

(Contd. of page 2)

• After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing: If symptoms persist consult doctor.

• Information for doctor:

- Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  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 No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### **6** Accidental release measures

Wear protective • Environmental Dilute with plen Do not allow to • Methods and m Absorb with liq Ensure adequat • Reference to ot See Section 7 fo	ity of water. enter sewers/ surface or ground water. <b>eaterial for containment and cleaning up:</b> uid-binding material (sand, diatomite, acid binders, universal binders, sawdust). e ventilation. <b>her sections</b> r information on safe handling.	
	r information on personal protection equipment. for disposal information.	
	on Criteria for Chemicals	
• PAC-1:		
CAS: 67-63-0	Isopropanol	400 ppm
CAS: 127-09-3	Sodium Acetate Anhydrous	11 mg/m <sup>3</sup>
· PAC-2:		
CAS: 67-63-0	Isopropanol	2000* ppm
CAS: 127-09-3	Sodium Acetate Anhydrous	120 mg/m <sup>3</sup>
· PAC-3:		
CAS: 67-63-0	Isopropanol	12000** ppm
CAS: 127-09-3	Sodium Acetate Anhydrous	700 mg/m <sup>3</sup>

# 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.

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Trade name: Alcoholic Sodium Acetate Solution

(Contd. of page 3)

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:

#### CAS: 67-63-0 Isopropanol

- PEL Long-term value: 980 mg/m<sup>3</sup>, 400 ppm
- REL Short-term value: 1225 mg/m<sup>3</sup>, 500 ppm Long-term value: 980 mg/m<sup>3</sup>, 400 ppm
- TLV Short-term value: 984 mg/m<sup>3</sup>, 400 ppm Long-term value: 492 mg/m<sup>3</sup>, 200 ppm BEI

#### · Ingredients with biological limit values:

#### CAS: 67-63-0 Isopropanol

BEI 40 mg/L

LD50 Intraperitoneal: urine Time: end of shift at end of workweek LD50: Acetone (background, nonspecific)

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

#### · 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.
- Avoia contact with the eyes and skin.
- Breathing equipment: Not required.
- Protection of hands:

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.

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Trade name: Alcoholic Sodium Acetate Solution

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# $\cdot$ 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 chemical properties		
· General Information		
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Alcohol	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	-89.5 °C (-129.1 °F)	
<b>Boiling point/Boiling range:</b>	82 °C (179.6 °F)	
Flash point:	13 °C (55.4 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	425 °C (797 °F)	
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:	2 Vol %	
Upper:	12 Vol %	
Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)	
Density at 20 °C (68 °F):	0.78668 g/cm³ (6.56484 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	<b>r</b> ): Not determined.	
Viscosity:		
Dynamic:	Not determined.	

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#### Trade name: Alcoholic Sodium Acetate Solution

	(Conto	l. of page 5)
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	99.1 %	
Water:	0.7~%	
VOC content:	99.12 %	
	779.8 g/l / 6.51 lb/gl	
Solids content:	0.2 %	
• 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.
- $\cdot$  Conditions to avoid No further relevant information available.
- $\cdot \textit{Incompatible materials: No further relevant information available.}$
- · 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)

Inhalative LC50/4 h 30.3 mg/l (rat)

#### · Primary irritant effect:

- on the skin: No irritant effect.
- 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: Irritant

## · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 67-63-0 Isopropanol

## · 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.

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#### Trade name: Alcoholic Sodium Acetate Solution

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- · 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.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number DOT, IMDG, IATA	UN1993
UN proper shipping name DOT IMDG, IATA	Flammable liquids, n.o.s. (Isopropanol) FLAMMABLE LIQUID, N.O.S. (Isopropanol)
· Transport hazard class(es)	
DOT	
· Class · Label	3 Flammable liquids 3
· IMDG, IATA	
· Class	3 Flammable liquids
· Label	3
· Packing group · DOT, IMDG, IATA	

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Trade	name:	Alcoholic	Sodium	Acetate
		Solution		

	(Contd. of pag
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	33
EMS Number:	F- $E$ , $S$ - $E$
Stowage Category	B
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: 5 L
2	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
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUIDS, N.O.S. (ISOPROPANOL), 3, II

# **15 Regulatory information**

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

• Section 355 (extremely hazardous substances):
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None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

CAS: 67-63-0 Isopropanol

· TSCA (Toxic Substances Control Act):

Isopropanol

Sodium Acetate Anhydrous

Water

· 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:

None of the ingredients is listed.

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Trade name: Alcoholic Sodium Acetate Solution

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A4

•	Carcinog	genic	categories
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· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

CAS: 67-63-0 Isopropanol

· 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: Isopropanol · Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness. · 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. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. 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. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. 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.

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Trade name: Alcoholic	Sodium	Acetate
Solution		

	(Contd. of page 9)
Contact:	
Date of preparation / last revision	
01-08-2018: review SDS for accuracy. STN	
Creation date for SDS 12-30-2014. STN	
01/08/2018 / -	
Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concern	ing the International
Carriage of Dangerous Goods by Road)	ing ine miernanonai
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)	
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	
Flam. Liq. 2: Flammable liquids – Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	US -