Printing date 05/21/2024

Reviewed on 05/21/2024

1 Identification	
· Product identifier	
• Trade name: <u>Electrode Storage</u> Solution	
• Article number: MOB023	
• 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 shermann@aquasolutions.org Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666 	
2 Hazard(s) identification	
· Classification of the substance or mixture	
GHS02 Flame	
Flammable Liquids 3	H226 Flammable liquid and vapor.
GHS07	
Eye Irritation 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure 3	H336 May cause drowsiness or dizziness.
Hazard pictograms	abeled according to the Globally Harmonized System (GHS).
GHS02 GHS07	
• Signal word Warning	
• Hazard-determining components of labeling: Isopropanol	
• Hazard statements Flammable liquid and vapor. Causes serious eye irritation.	
May cause drowsiness or dizziness. • Precautionary statements	
Keep away from heat/sparks/open flames/hot surfac	ces No smoking.
Ground/bond container and receiving equipment.	

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Trade name: Electrode Storage Solution

(Contd. of page 1) 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 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 = 2Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH ² Health = 2FIRE 2 Fire = 2**REACTIVITY O** Reactivity = 0· Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable. **3** Composition/information on ingredients · Chemical characterization: Mixtures · Description: Mixture of the substances listed below with nonhazardous additions. · Dangerous components:

CAS: 67-63-0 Is	opropanol	97.24%
• Table of Nonhaz	ardous Ingredients	
CAS: 7732-18-5	Water	2.5%
CAS: 127-09-3	Sodium Acetate Anhydrous	0.16%
CAS: 7761-88-8	Silver Nitrate	0.1%

4 First-aid measures

· Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

(Contd. on page 3)

US

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Solution

(Contd. of page 2)

- *After inhalation: Supply fresh air; consult doctor in case of complaints.* • *After skin contact: Immediately rinse with water.*
- After skin contact: 1m
- 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.
- · 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

CAS: 127-09-3 Sodium Acetate Anhydrous 11 mg CAS: 7761-88-8 Silver Nitrate 0.047 PAC-2: CAS: 67-63-0 Isopropanol 2000 CAS: 127-09-3 Sodium Acetate Anhydrous 120 mg CAS: 7761-88-8 Silver Nitrate 0.9 mg PAC-3: CAS: 67-63-0 Isopropanol 120 mg CAS: 67-63-0 Isopropanol 0.9 mg PAC-3: CAS: 67-63-0 Isopropanol 12000 mg		
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. 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: CAS: 67-63-0 Isopropanol 400 pf CAS: 127-09-3 Sodium Acetate Anhydrous 11 mg CAS: 7761-88-8 Silver Nitrate 0.047 PAC-2: CAS: 67-63-0 Isopropanol 2000 CAS: 127-09-3 Sodium Acetate Anhydrous 120 CAS: 7761-88-8 Silver Nitrate 0.9 m PAC-3: CAS: 7761-88-8 Silver Nitrate 0.9 m PAC-3: CAS: 67-63-0 Isopropanol 1200 ⁸		
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.Ensure adequate ventilation.Reference to other sectionsSee 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 ChemicalsPAC-1:CAS: 67-63-0IsopropanolCAS: 7761-88-8Silver NitrateOAS: 127-09-3Sodium Acetate AnhydrousCAS: 67-63-0IsopropanolCAS: 7761-88-8Silver NitrateO.947PAC-2:CAS: 7761-88-8Silver NitrateCAS: 7761-88-8Silver NitrateO.947PAC-3:CAS: 7761-88-8Silver NitrateCAS: 7761-88-8Silver NitrateO.947PAC-3:CAS: 67-63-0IsopropanolCAS: 7761-88-8Silver NitrateO.947PAC-3:CAS: 67-63-0IsopropanolCAS: 67-63-0IsopropanolCAS: 67-63-0Sodium Acetate AnhydrousO.947PAC-3:CAS: 67-63-0IsopropanolCAS: 67-63-0IsopropanolCAS: 67-63-0Solium Acetate AnhydrousCAS: 67-63-0Solium Acetate AnhydrousCA		
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PAC-2: 2000 CAS: 67-63-0 Isopropanol 2000 CAS: 127-09-3 Sodium Acetate Anhydrous 120 m CAS: 7761-88-8 Silver Nitrate 0.9 m PAC-3: CAS: 67-63-0 Isopropanol 12000*	Sodium Acetate Anhydrous	11 mg/m ³
CAS: 67-63-0 Isopropanol 2000 CAS: 127-09-3 Sodium Acetate Anhydrous 120 a CAS: 7761-88-8 Silver Nitrate 0.9 m PAC-3: CAS: 67-63-0 Isopropanol 12000*	Silver Nitrate	0.047 mg/m
CAS: 127-09-3 Sodium Acetate Anhydrous 120 I CAS: 7761-88-8 Silver Nitrate 0.9 m PAC-3: CAS: 67-63-0 Isopropanol 12000*		
CAS: 7761-88-8 Silver Nitrate 0.9 m PAC-3: CAS: 67-63-0 Isopropanol 12000*	Isopropanol	2000* ppr
PAC-3: Isopropanol 12000*	Sodium Acetate Anhydrous	120 mg/m
CAS: 67-63-0 Isopropanol 12000*	Silver Nitrate	0.9 mg/m ³
	Isopropanol	12000** ppr
CAS: 127-09-3 Sodium Acetate Anhydrous 700 mg		7 00 ()
CAR 127 00 2		of water. Inter sewers/ surface or ground water. Arerial for containment and cleaning up: d-binding material (sand, diatomite, acid binders, universal binders, sawdust). Mated material as waste according to section 13. We restain a substantiation. Material for mation on safe handling. Information on personal protection equipment. Priteria for Chemicals Isopropanol Sodium Acetate Anhydrous Silver Nitrate Isopropanol Sodium Acetate Anhydrous Silver Nitrate

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Trade name: Electrode Storage Solution

CAS: 7761-88-8 Silver Nitrate

(Contd. of page 3) $5.4 mg/m^3$

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.*
- · 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 workpl	ace:

CAS: 67-63-0 Isopropanol

PEL Long-term value: 980 mg/m³, 400 ppm

- REL Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
- TLV Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4

· 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.

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(Contd. of page 4)

• 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

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Fluid	
Color:	According to product specification	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	-89.5 °C (-129.1 °F)	
Boiling point/Boiling range:	>175 °C (>347 °F)	
Flash point:	55 °C (131 °F)	
Flammability (solid, gaseous):	Flammable.	
Auto igniting:	425 °C (797 °F)	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Not determined.	

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Trade name: Electrode Storage Solution

	(Contd. of page
· 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):	1 g/cm ³ (8.345 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	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	97.2 %
Water:	2.5 %
VOC content:	97.24 %
	972.4 g/l / 8.12 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:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- \cdot Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

(Contd. on page 7)

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Trade name: Electrode Storage Solution

(Contd. of page 6)

3

- · 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.

<u>12 Ecological information</u>

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

· UN-Number · DOT, IMDG, IATA	UN1993	
	011775	
\cdot UN proper shipping name		
$\cdot DOT$	Flammable liquids, n.o.s. (Isopropanol	
)	
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Isopropanol	

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Solution	
	(Contd. of pag
Transport hazard class(es)	
DOT	
3	
Class	3 Flammable liquids
Label	3
IMDG, IATA	
3	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code) EMS Number:	: 30 F-E,S-E
Stowage Category	A A
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: 60 L
	On cargo aircraft only: 220 L
	5 1
Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1
Exception quantumes (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL
), 3, 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.

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Trade name: Electrode Storage Solution

		(Contd. of pag
• Section 313 (Specific toxic chemical lis	stings):	
CAS: 67-63-0 Isopropanol		
CAS: 7761-88-8 Silver Nitrate		
TSCA (Toxic Substances Control Act):		
Isopropanol		ACTIV
Water		ACTIV
Sodium Acetate Anhydrous		ACTIV
Silver Nitrate		ACTIV
Hazardous Air Pollutants		
None of the ingredients is listed.		
Proposition 65		
Chemicals known to cause cancer:		
None of the ingredients is listed.		
Chemicals known to cause reproductiv	e toxicity for females:	
None of the ingredients is listed.		
Chemicals known to cause reproductiv	e toxicity for males:	
None of the ingredients is listed.		
	ıtal toxicity:	
Chemicals known to cause development	2	

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

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 Warning

Hazard-determining components of labeling: Isopropanol
Hazard statements 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.

(Contd. on page 10)

A4

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Trade name: Electrode Storage Solution

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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 eve irritation persists: Get medical advice/attention. 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: · Date of preparation / last revision Revision 1.2, 05/21/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 02-22-2016: Creation date for SDS. STN 05/21/2024 · 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) 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 3: Flammable liquids – Category 3 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3 • * Data compared to the previous version altered.