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Product identifier	
Trade name: <u>Mercuric Acetate</u> 0.001 Molar Solution	
Article number: CP008	
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	
Hazard(s) identification	
Classification of the substance or mixture	
GHS06 Skull and crossbones	
Acute Toxicity - Oral 3	H301 Toxic if swallowed.
Acute Toxicity - Dermal 3	H311 Toxic in contact with skin.
Acute Toxicity - Inhalation 3	H331 Toxic if inhaled.
GHS08 Health hazard	
\mathbf{A}	re 1 H370 Causes damage to organs.
GHS08 Health hazard	re 1 H370 Causes damage to organs.
GHS08 Health hazard Specific Target Organ Toxicity - Single Exposur GHS05 Corrosion	
GHS08 Health hazard Specific Target Organ Toxicity - Single Exposur	re 1 H370 Causes damage to organs. H314 Causes severe skin burns and eye damage.
GHS08 Health hazard Specific Target Organ Toxicity - Single Exposur GHS05 Corrosion Skin Corrosion 1C	

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· Results of PBT and vPvB assessment

· **PBT:** Not applicable.



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• **vPvB:** Not applicable.

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5.981%

93.988%

0.032%

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

CAS: 64-19-7 Acetic Acid, Glacial

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

CAS: 1600-27-7 Mercuric Acetate

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.

 \cdot Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 *Fire-fighting measures*

· Extinguishing media

- \cdot 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.
- · 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:
- Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

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		(Contd. of page 3
Methods and m	aterial for containment and cleaning up:	
	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Use neutralizing		
	inated material as waste according to section 13.	
Ensure adequate		
Reference to oth		
	r information on safe handling.	
See Section 8 for	r information on personal protection equipment.	
See Section 13 fe	or disposal information.	
Protective Actio	n Criteria for Chemicals	
• PAC-1:		
CAS: 64-19-7	Acetic Acid, Glacial	5 ppm
CAS: 1600-27-7	Mercuric Acetate	0.048 mg/m
• PAC-2:		
CAS: 64-19-7	Acetic Acid, Glacial	35 ppm
CAS: 1600-27-7	Mercuric Acetate	0.064 mg/m
• PAC-3:		
CAS: 64-19-7	Acetic Acid, Glacial	250 ppm
	Mercuric Acetate	3.2 mg/m

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 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

 \cdot Components with limit values that require monitoring at the workplace:

CAS: 64-19-7 Acetic Acid, Glacial

PEL Long-term value: 25 mg/m³, 10 ppm

REL Short-term value: 37 mg/m³, 15 ppm

Long-term value: 25 mg/m³, 10 ppm

TLV Short-term value: 15 ppm Long-term value: 10 ppm

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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.	
Store protective clothing separately.	
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	ı
· 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 resistanc	e 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	
9 Physical and chemical properties	
· Information on basic physical and chemical properties	
· General Information	
· Appearance:	

Seneral Information		
· Appearance:		
Form:	Liquid	
Color:	Clear	
· Odor:	Vinegar	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
		(Contd. on noos

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· Flash point:	40 °C (104 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Auto igniting:	485 °C (905 °F)	
· Decomposition temperature:	Not determined.	
· Ignition temperature:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density at 20 °C (68 °F):	1.00324 g/cm ³ (8.37204 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:	6.0 %	
Water:	94.0 %	
VOC content:	5.98 %	
	60.0 g/l / 0.50 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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11 Toxicological information · Information on toxicological effects · Acute toxicity: · LD/LC50 values that are relevant for classification: ATE (Acute Toxicity Estimate) Dermal LD50 17,724 mg/kg (rabbit) · Primary irritant effect: • on the skin: No irritant effect. • on the eye: No irritating effect. · Sensitization: Sensitization possible through skin contact. · Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Toxic 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. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · 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.

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· 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	UN2927
	0112727
· UN proper shipping name · DOT	Toxic liquids, corrosive, organic, n.o.s. (Mercuric Acetate, Ac Acid, Glacial
IMDG, IATA) TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (Mercu Acetate, Acetic Acid, Glacial)
· Transport hazard class(es)	
DOT	
· Class · Label	6.1 Toxic substances 6.1, 8
· IMDG	
· Class	6.1 Toxic substances
· Label	6.1/8
· Class	6.1 Toxic substances
· Label	6.1 (8)
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Special precautions for user · Hazard identification number (Kemler co	
· EMS Number:	F-A,S-B (SGG1) Acids

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· Stowage Category	Α
• 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
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN 2927 TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S (MERCURIC ACETATE, ACETIC ACID, GLACIAL), 6.1 (8), II

15 Regulatory information

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

· Sara	
· Section 355 (extremely hazardous substances):	
CAS: 1600-27-7 Mercuric Acetate	
· Section 313 (Specific toxic chemical listings):	
CAS: 1600-27-7 Mercuric Acetate	
TSCA (Toxic Substances Control Act):	
Water	ACTIVE
Acetic Acid, Glacial A	
Mercuric Acetate	
· Hazardous Air Pollutants	
CAS: 1600-27-7 Mercuric Acetate	
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:	

CAS: 1600-27-7 Mercuric Acetate

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· Carcinogenic categories

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	ent cutegories
	vironmental Protection Agency)
None of t	he ingredients is listed.
TLV (Th	reshold Limit Value)
None of t	he ingredients is listed.
NIOSH-	Ca (National Institute for Occupational Safety and Health)
None of t	he ingredients is listed.
	el elements The product is classified and labeled according to the Globally Harmonized System (GHS). ictograms
GHS05	GHS06 GHS07 GHS08
Signal w	ord Danger
	letermining components of labeling:
	rid, Glacial
	tatements
	wallowed, in contact with skin or if inhaled.
	evere skin burns and eye damage.
	se an allergic skin reaction.
	amage to organs.
Precautio	onary statements
	reathe dusts or mists.
Wash tho	roughly after handling.
Do not ed	at, drink or smoke when using this product.
Use only	outdoors or in a well-ventilated area.
Contamir	nated work clothing must not be allowed out of the workplace.
Wear pro	tective gloves/protective clothing/eye protection/face protection.
If swallow	ved: Immediately call a poison center/doctor.
Specific t	reatment (see on this label).
If swallow	ved: Rinse mouth. Do NOT induce vomiting.
If on skin	(or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	LED: Remove person to fresh air and keep comfortable for breathing.
	s: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to de
Continue	
IF expose	ed: Call a POISON CENTER or doctor/physician.
Call a po	ison center/doctor if you feel unwell.
	immediately all contaminated clothing and wash it before reuse.
	itation or rash occurs: Get medical advice/attention.
	a well-ventilated place. Keep container tightly closed.
Store loc	
Store loc	of contents/container in accordance with local/regional/national/international regulations.

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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 07/17/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN 07/18/2024 / 1.0 · 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 Acute Toxicity - Oral 3: Acute toxicity - Category 3 Skin Corrosion 1C: Skin corrosion/irritation – Category 1C Sensitization - Skin 1: Skin sensitisation - Category 1 Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) - Category 1 • * Data compared to the previous version altered.