Printing date 05/12/2023

Reviewed on 05/12/2023

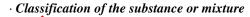
1 Identification

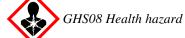
- · Product identifier
- Trade name: Lead Acetate 10% w/v Soln. APHA for Arsenic
- · Article number: 5160
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Aqua Solutions, Inc.
 6913 Highway 225 DEER PARK, TX 77536

USA 800-256-2586

- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- *Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666*

2 Hazard(s) identification





Carcinogenicity 1BH350 May cause cancer.Toxic to Reproduction 1AH360 May damage fertility or the unborn child.Specific Target Organ Toxicity - Repeated Exposure 2H373 May cause damage to organs through prolonged or
repeated exposure.

GHS07

Sensitization - Skin 1

Acute Toxicity - Inhalation 4

H332 Harmful if inhaled. H317 May cause an allergic skin reaction.

· Label elements

• *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:* Lead Acetate Acetic Acid, Glacial

(Contd. on page 2)

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Trade name: Lead Acetate 10% w/v Soln. APHA for Arsenic

	(Contd. of page 1)
· Hazard statements	
Harmful if inhaled.	
May cause an allergic skin reaction.	
May cause cancer.	
May damage fertility or the unborn child.	
May cause damage to organs through prolonged or repeated exposure.	
· Precautionary statements	
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Use only outdoors or in a well-ventilated area.	
Contaminated work clothing must not be allowed out of the workplace.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin: Wash with plenty of water.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Specific treatment (see on this label).	
Get medical advice/attention if you feel unwell.	
If skin irritation or rash occurs: Get medical advice/attention.	
Wash contaminated clothing before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations	
· Classification system:	
· NFPÅ ratings (scale 0 - 4)	
Health = 2	
Fire = 0	
$\mathbf{Z} = 0$ <i>Reactivity</i> = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 0 Fire = 0	
REACTIVITY O $Reactivity = 0$	
· Other hazards	
· Results of PBT and vPvB assessment	
• <i>PBT:</i> Not applicable.	
· vPvB : Not applicable.	
· · ·	
2 Composition information on ingradiants	
3 Composition/information on ingredients	
· Chemical characterization: Mixtures	
• Description: Mixture of the substances listed below with nonhazardous additions.	
Description : Mixiare of the substances tisted below with nonnazaraous additions.	

• Dangerous comp	ponents:	
CAS: 6080-56-4	Lead Acetate	9.835%
CAS: 64-19-7	Acetic Acid, Glacial	0.207%
		(Contd. on page 3)

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(Contd. of page 2)

· Table of Nonhazardous Ingredients

89.958%

4 First-aid measures

CAS: 7732-18-5 Water

· 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:

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.

• 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: Use fire fighting measures that suit the environment.
- \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. · 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. Dilute with plenty of water. 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: 6080-56-4 Lead Acetate

14 mg/m³ (Contd. on page 4)

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Trade name: Lead Acetate 10% w/v Soln. APHA for Arsenic

CAS: 64-19-7	Acetic Acid, Glacial	(Contd. of page 3) 5 ppm
· PAC-2:		
CAS: 6080-56-4	Lead Acetate	150 mg/m ³
CAS: 64-19-7	Acetic Acid, Glacial	35 ppm
· PAC-3:		
CAS: 6080-56-4	Lead Acetate	920 mg/m ³
CAS: 64-19-7	Acetic Acid, Glacial	250 ppm

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

· 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/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

• 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. Store protective clothing separately.

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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 • 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	chemical properties	
General Information		
Appearance: Form:	Liquid	
Color:	Clear	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
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.	

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		(Contd. of page
Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.01677 g/cm ³ (8.48495 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	e r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.2 %	
Water:	90.0 %	
VOC content:	0.21 %	
	2.1 g/l / 0.02 lb/gal	
Solids content:	9.8 %	
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 5,084 mg/kg

Inhalative LC50/4h 15.3 mg/l

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.
- \cdot Additional toxicological information:

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

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Trade name: Lead Acetate 10% w/v Soln. APHA for Arsenic

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

CAS: 6080-56-4 Lead Acetate

· 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. 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.
- · 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	UN2810
· UN proper shipping name	
$\cdot DOT$	Toxic, liquids, organic, n.o.s. (Lead Acetate)
·IMDG	TOXIC LIQUID, ORGANIC, N.O.S. (Lead Acetate), MARIN
	POLLUTANT
·IATA	TOXIC LIQUID, ORGANIC, N.O.S. (Lead Acetate)

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Trade name: Lead Acetate 10% w/v Soln. APHA for Arsenic

	(Contd. of page
Transport hazard class(es)	
DOT	
TOXIC	
- Class	6.1 Toxic substances
Label	6.1
IMDG	
Class	6.1 Toxic substances
Label	6.1
- Class	6.1 Toxic substances
Label	6.1
Packing group DOT, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	Yes
	Symbol (fish and tree)
Special precautions for user	Warning: Toxic substances
Hazard identification number (Kem)	ler code): 6.1
EMS Number:	F-A,S-A
Stowage Category	A SW2 Channel living an article
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Anne MARPOL73/78 and the IBC Code	ex II of Not applicable.
UN ''Model Regulation'':	UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (LEAD ACETATE
2	6.1, III

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.

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	(Contd. of page
Section 313 (Specific toxic chemical listings):	
CAS: 6080-56-4 Lead Acetate	
TSCA (Toxic Substances Control Act):	
Water	ACTIVE
Acetic Acid, Glacial	ACTIVE
Hazardous Air Pollutants	
CAS: 6080-56-4 Lead Acetate	
Proposition 65	
Chemicals known to cause cancer:	
CAS: 6080-56-4 Lead Acetate	
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.

· TLV (Threshold Limit Value)

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: Lead Acetate Acetic Acid, Glacial
Hazard statements Harmful if inhaled.
May cause an allergic skin reaction.
May cause cancer.
May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.
Precautionary statements Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

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Trade name: Lead Acetate 10% w/v Soln. APHA for Arsenic

	(Contd. of page
Contaminated work clothing must not be allowed out of the w	
Wear protective gloves/protective clothing/eye protection/fact	e protection.
If on skin: Wash with plenty of water.	
IF INHALED: Remove person to fresh air and keep comforta	ble for breathing.
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Specific treatment (see on this label).	
Get medical advice/attention if you feel unwell.	
If skin irritation or rash occurs: Get medical advice/attention	
Wash contaminated clothing before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/region	nal/national/international regulations.
· National regulations:	
· Additional classification according to Decree on Hazardous	Materials:
Carcinogenic hazardous material group III (dangerous).	
· Information about limitation of use:	
Workers are not allowed to be exposed to the hazardous ca	rcinogenic materials contained in this preparati
<i>Exceptions can be made by the authorities in certain cases.</i>	remogenie materials contained in mis preparation
• Chemical safety assessment: A Chemical Safety Assessment I	has not been carried out
6 Other information	
This information is based on our present knowledge. How	
specific product features and shall not establish a legally vali	a contractaat retationship.
	•
- Department issuing SDS: Environment protection department - Contact:	•
• Department issuing SDS: Environment protection department • Contact:	•
 Department issuing SDS: Environment protection department Contact: Date of preparation / last revision 	•
 Department issuing SDS: Environment protection department Contact: Date of preparation / last revision Revision 1.0 05/12/2023, reviewed SDS for accuracy. STN 	•
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