Printing date 06/11/2024

Reviewed on 06/11/2024

1 Identification

- · Product identifier
- Trade name: ICP Standard 5 ppm Ea(Fe,As,Pb) In Trisodium NTA Solution
- Article number: M-582
- · 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

2 Hazard(s) identification

- · Classification of the substance or mixture The product is not classified, according to the Globally Harmonized System (GHS).
 - · Label elements
 - · GHS label elements Not Applicable
 - · Hazard pictograms Not Applicable
 - · Signal word Not Applicable
 - · Hazard statements Not Applicable
 - · Precautionary statements
 - If swallowed: Call a poison center/doctor if you feel unwell.
 - If on skin: Wash with plenty of water.
 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 0 Health = 00 Fire = 0**REACTIVITY** O Reactivity = 0

· Other hazards

FIRE

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

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3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:			
CAS: 5064-31-3	trisodium nitrilotriacetate	0.38%	
CAS: 7697-37-2	Nitric Acid	0.107%	
· Table of Nonhazardous Ingredients			
CAS: 7732-18-5		99.512%	
CAS: 10099-74-8	Lead Nitrate	0.001%	
CAS: 7439-89-6	Iron Metal	0.001%	
CAS: 7440-38-2	arsenic	0.0005%	

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then 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: Use fire fighting measures that suit the environment.
- 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

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: 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.

- · 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.

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· Protective Action	Criteria for Chemicals	(Contd. of page 2
• PAC-1:		
CAS: 7697-37-2	Nitric Acid	0.16 ppm
CAS: 10099-74-8	Lead Nitrate	0.24 mg/m ³
CAS: 7439-89-6	Iron Metal	3.2 mg/m ³
CAS: 7440-38-2	arsenic	1.5 mg/m ³
· PAC-2:		
CAS: 7697-37-2	Nitric Acid	24 ppm
CAS: 10099-74-8	Lead Nitrate	180 mg/m ³
CAS: 7439-89-6	Iron Metal	35 mg/m ³
CAS: 7440-38-2	arsenic	17 mg/m ³
· PAC-3:		
CAS: 7697-37-2	Nitric Acid	92 ppm
CAS: 10099-74-8	Lead Nitrate	1,100 mg/m ³
CAS: 7439-89-6	Iron Metal	150 mg/m ³
CAS: 7440-38-2	arsenic	100 mg/m ³

7 Handling and storage

· Handling:

- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · 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: 7697-37-2 Nitric Acid

- PEL Long-term value: 5 mg/m³, 2 ppm
- REL Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 mg/m³, 2 ppm
- TLV Short-term value: (4) NIC-0.025 ppm Long-term value: (2) ppm NIC-A4

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

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- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- Breathing equipment: Not required.
- · Protection of hands:



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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: Goggles recommended during refilling.

· Body protection: Protective work clothing

Information on basic physical and General Information	chemical properties		
Appearance:			
Form:	Liquid		
Color:	Clear water white		
Odor:	Odorless		
Odor threshold:	Not determined.		
pH-value:	Not determined.		
Change in condition			
Melting point/Melting range:	0 °C (32 °F)		
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.		
Upper:	Not determined.		

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		(Contd. of page	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 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:	Not miscible or difficult to mix.		
Partition coefficient (n-octanol/wate	r): Not determined.		
Viscosity:			
Dynamic:	Not determined.		
Kinematic:	Not determined.		
Solvent content:			
Water:	99.5 %		
VOC content:	0.00 %		
	0.0 g/l / 0.00 lb/gal		
Solids content:	0.4 %		
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)

Inhalative LC50/4h 2,813 mg/l

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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· Carcinogenic categories			
· IARC (International Agency for Research on Cancer)			
CAS: 10099-74-8	Lead Nitrate	2A	
CAS: 7440-38-2	arsenic	1	
· NTP (National Toxicology Program)			
CAS: 10099-74-8	Lead Nitrate	R	
CAS: 7440-38-2	arsenic	K	
· OSHA-Ca (Occupational Safety & Health Administration)			
CAS: 7440-38-2	arsenic		

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.
- \cdot 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: Smaller quantities can be disposed of with household waste.

• *Recommendation:* Disposal must be made according to official regulations.

· UN-Number		
· DOT, IMDG, IATA	Not regulated	
· UN proper shipping name		
$\cdot DOT, IATA$	Not regulated	
·IMDG	Not Regulated	
	Not regulated	

[·] Uncleaned packagings:

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		(Contd. of page 6)
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA · Class	Not regulated	
· Packing group · DOT, IMDG, IATA	Not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	I of Not applicable.	
· UN "Model Regulation":	Not regulated	

15 Regulatory information

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

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· Section 355 (extre	mely hazardous substances):		
CAS: 7697-37-2 Nitric Acid			
• Section 313 (Spec	ific toxic chemical listings):		
CAS: 5064-31-3 trisodium nitrilotriacetate			
CAS: 7697-37-2 Nitric Acid			
CAS: 10099-74-8	CAS: 10099-74-8 Lead Nitrate		
CAS: 7440-38-2	arsenic		
· TSCA (Toxic Sub	stances Control Act):		
Water		ACTIVE	
trisodium nitrilotr	iacetate	ACTIVE	
Nitric Acid	Nitric Acid		
Lead Nitrate	Lead Nitrate		
Iron Metal	Iron Metal		
arsenic		ACTIVE	
· Hazardous Air Po	llutants		
CAS: 10099-74-8 Lead Nitrate			
· Proposition 65			
· Chemicals known	to cause cancer:		
CAS: 10099-74-8 Lead Nitrate			
CAS: 7440-38-2 arsenic			
· Chemicals known	to cause reproductive toxicity for females:		
None of the ingrea	lients is listed.		
· Chemicals known	to cause reproductive toxicity for males:		
None of the ingrea	lients is listed.		
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B2

A3

A1

Α

 Chemicals known 	to cai	ise develop	mental toxicity:
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None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 10099-74-8 Lead Nitrate

CAS: 7440-38-2 arsenic

· TLV (Threshold Limit Value)

CAS: 10099-74-8 Lead Nitrate

CAS: 7440-38-2 arsenic

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

CAS: 7440-38-2 arsenic

· GHS label elements Not Applicable

· Hazard pictograms Not Applicable

- · Signal word Not Applicable
- · Hazard statements Not Applicable
- · Precautionary statements

If swallowed: Call a poison center/doctor if you feel unwell.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

· Date of preparation / last revision Revision 1.2, 06/10/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN 06/11/2024 / 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

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PEL: Permissible Exposure Limit REL: Recommended Exposure Limit • * Data compared to the previous version altered.