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1 Identification

- · Product identifier
- Trade name: Sodium Arsenite 5 gpL Solution
- Article number: ASH003
- 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



GHS08 Health hazard

Carcinogenicity 1A H350 May cause cancer.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:
- Sodium m-Arsenite
- · Hazard statements
- May cause cancer.
- · Precautionary statements
- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
- IF exposed or concerned: Get medical advice/attention.
- Store locked up.

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

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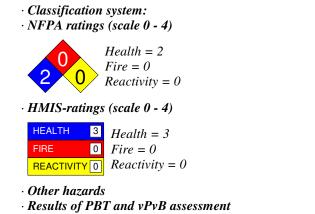
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0.5%

99.5%



• *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: 7784-46-5 Sodium m-Arsenite

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

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.
- · 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.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

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0.91 mg/n
10 mg/n

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

- · 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:

CAS: 7784-46-5 Sodium m-Arsenite

PEL Long-term value: 0.01 mg/m³

as As; 29CFR1910.1018

REL Ceiling limit value: 0.002 mg/m³ as As; 15min; See Pocket Guide App. A

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Trade name: Sodium Arsenite 5 gpL Solution

TLV Long-term value: 0.01 mg/m³

as As

· 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. Wash hands before breaks and at the end of work. Store protective clothing separately.

• 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 General Information	chemical properties	
Appearance:	Time i d	
Form: Color:	Liquid Clear	
001011		
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)	

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	(Contd. of pag	ge 4)
· 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.	
· 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:	Fully miscible.	
· Partition coefficient (n-octanol/wate	er): 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:	0.0 %	
• 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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5 gpL Solution

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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)

Oral	LD50	8,200 mg/kg (rat)
	LD50	30,000 mg/kg (rat)
Inhalative	LC50/4h	100 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 shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 7784-46-5 Sodium m-Arsenite

· NTP (National Toxicology Program)

CAS: 7784-46-5 Sodium m-Arsenite

· OSHA-Ca (Occupational Safety & Health Administration)

CAS: 7784-46-5 Sodium m-Arsenite

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

- \cdot 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	UN3287
UN proper shipping name	
DOT	Toxic liquid, inorganic, n.o.s. (Sodium m-Arsenite)
IMDG, IATA	TOXIC LIQUID, INORGANIC, N.O.S. (Sodium m-Arsenite)
Transport hazard class(es)	
DOT	
Toxic	
8	
Class	6.1 Toxic substances
Label	6.1
IMDG, IATA	
6	
Class	6.1 Toxic substances
Label	6.1
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Toxic substances
Hazard identification number (Kemler code):	
EMS Number:	F-A,S-A
Stowage Category Stowage Code	B SW2 Clear of living quarters.
· · · · · · · · · · · · · · · · · · ·	
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
	On cargo aircraft only: 60 L

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ACTIVE ACTIVE

· UN "Model Regulation":

UN 3287 TOXIC LIQUID, INORGANIC, N.O.S. (SODIUM M-ARSENITE), 6.1, II

15 Regulatory information

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

CAS: 7784-46-5 Sodium m-Arsenite

· Section 313 (Specific toxic chemical listings):

CAS: 7784-46-5 Sodium m-Arsenite

· TSCA (Toxic Substances Control Act):

Water

Sodium m-Arsenite

• Hazardous Air Pollutants

CAS: 7784-46-5 Sodium m-Arsenite

· Proposition 65

· Chemicals known to cause cancer:

CAS: 7784-46-5 Sodium m-Arsenite

· 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)

CAS: 7784-46-5 Sodium m-Arsenite

· TLV (Threshold Limit Value)

CAS: 7784-46-5 Sodium m-Arsenite

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

CAS: 7784-46-5 Sodium m-Arsenite

• *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: Sodium m-Arsenite Α

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Trade name: Sodium Arsenite 5 gpL Solution

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Hazard statements	
May cause cancer.	
Precautionary statements	
Obtain special instructions before use.	1 1 1 1 . 1
Do not handle until all safety precautions have	
Wear protective gloves/protective clothing/eye	
IF exposed or concerned: Get medical advice/	attention.
Store locked up.	
Dispose of contents/container in accordance w	vith local/regional/national/international regulations.
National regulations:	
Additional classification according to Decree	on Hazardous Materials:
Carcinogenic hazardous material group III (d	
Information about limitation of use:	
	e hazardous carcinogenic materials contained in this preparatio
Exceptions can be made by the authorities in c	
Chemical safety assessment: A Chemical Safe	ay Assessment has not been carried out.
Other information	
•	nouladas Housen this shall not constitute a sugrantes for a
	nowledge. However, this shall not constitute a guarantee for an
specific product features and shall not establis	n a legally valla contractual relationship.
Department issuing SDS: Environment protect	ction department.
Contact:	
Date of Preparation / Last Revision:	
Date of preparation / last revision	
Revision 1.2 07/25/2024: Reviewed SDS for ad	ccuracy. MH/STN
Revision 0.0, 05-29-2024: Creation date for St	•
07/25/2024 / 1.0	
Abbreviations and acronyms:	
IMDG: International Maritime Code for Dangerous Goo	ds
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Cl	
ELINCS: European List of Notified Chemical Substances	
CAS. Chamical Abatuanta Samian (division of the Amaria	
	an onemean society)
NFPA: National Fire Protection Association (USA)	
NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)	
NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent	
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CAS: Chemical Abstracts Service (division of the America 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	
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	
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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 Carcinogenicity 1A: Carcinogenicity – Category 1A	
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	