Printing date 07/09/2024 Reviewed on 07/08/2024

### 1 Identification

· Product identifier

· Trade name: Sodium arsenite solution

• Article number: 216065 • CAS Number: 7784-46-5 • EINECS Number: 232-070-5

· Application of the substance / the mixture Laboratory chemicals for research and development

· Details of the supplier of the safety data sheet

Manufacturer/Supplier: BeanTown Chemical 9 Sagamore Park Road Hudson, NH 03051

USA

Phone: (603) 402-2234 Fax: (603) 402-9713

Email: technical@beantownchem.com

www.beantownchem.com

- · Information department: Technical Support Department
- · Emergency telephone number:

During normal operating hours, please call (603) 402-2234 After hours, please call Chemtrec at (800) 424-9300

## 2 Hazard(s) identification

· Classification of the substance or mixture



GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H331 Toxic if inhaled.

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



GHS06

- · Signal word Danger
- · Hazard-determining components of labeling:

sodium dioxoarsenate

· Hazard statements

Toxic if swallowed or if inhaled.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Store locked up.

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

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- · 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:

7784-46-5 sodium dioxoarsenate

1.3%

#### 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.
- · 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: Mouth respiratory protective device.

### 6 Accidental release measures

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

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 item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· <i>PAC-1</i> :		

 $0.91 \text{ mg/m}^3$ 

· PAC-2:

7784-46-5 sodium dioxoarsenate

7784-46-5 sodium dioxoarsenate

10 mg/m³

· PAC-3:

7784-46-5 sodium dioxoarsenate

170 mg/m³

# 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:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute

· Control parameters

#### · Components with limit values that require monitoring at the workplace:

#### 7784-46-5 sodium dioxoarsenate

PEL Long-term value: 0.01 mg/m<sup>3</sup>

as As; 29CFR1910.1018

REL Ceiling limit value: 0.002 mg/m<sup>3</sup>

as As; 15min; See Pocket Guide App. A

TLV Long-term value: 0.01 mg/m<sup>3</sup>

s 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.

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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### · 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:

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.

Information on basic physical and c	chemical properties
General Information	
Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	0 °C (32 °F)
Boiling point/Boiling range:	Undetermined
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	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/cm³ (8.345 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.

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· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content:	
Water: VOC content:	98.7 % 0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	1.3 %  No further relevant information available
· 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/LC5	0 valu	es that are relevant for classification:
		ium dioxoarsenate
Oral	<i>LD50</i>	41 mg/kg (rat)
Dermal	LD50	150 mg/kg (rat)

- · 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: Toxic

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
7784-46-5 sodium dioxoarsenate	1
· NTP (National Toxicology Program)	
7784-46-5 sodium dioxoarsenate	K
· OSHA-Ca (Occupational Safety & Health Administration)	
7784-46-5 sodium dioxoarsenate	

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### 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	UN1686
UN proper shipping name	
DOT	Sodium arsenite, aqueous solutions
IMDG	SODIUM ARSENITE, AQUEOUS SOLUTION, MARINA POLLUTANT
IATA	SODIUM ARSENITE, AQUEOUS SOLUTION
Transport hazard class(es)	
DOT, IMDG, IATA	
Class	6.1 Toxic substances
Label	6.1
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	Yes
-	Symbol (fish and tree)
Special precautions for user	Warning: Toxic substances
EMS Number:	F-A,S-A

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Stowage Category	(Contd. of page $A$
Transport in bulk according to Annex II of	•
	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
<b>2</b>	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	100 ml
Excepted quantities (EQ)	Code: E4
1 1 2	Maximum net quantity per inner packaging: 1 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1686 SODIUM ARSENITE, AQUEOUS SOLUTION, 6.1, II

Regulatory information	
Safety, health and environmental regulations/legislation specific for the substa No further relevant information available. Sara	ance or mixture
Section 355 (extremely hazardous substances):	
7784-46-5 sodium dioxoarsenate	
Section 313 (Specific toxic chemical listings):	
7784-46-5 sodium dioxoarsenate	
TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
Hazardous Air Pollutants	
7784-46-5 sodium dioxoarsenate	
Proposition 65	
Chemicals known to cause cancer:	
7784-46-5 sodium dioxoarsenate	
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)	
7784-46-5 sodium dioxoarsenate	
TLV (Threshold Limit Value)	
7784-46-5 sodium dioxoarsenate	
NIOSH-Ca (National Institute for Occupational Safety and Health)	

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#### · RTECS

None of the ingredients is listed.

· 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.

· NFPA ratings (scale 0-4)

Health = 0

Fire = 0

Reactivity = 0

· HMIS ratings (scale 0-4)

Health = \*1

Fire = 0

Reactivity = 0

- · Department issuing SDS: Technical Support Department
- · Contact: Technical Support Department
- · Date of preparation / last revision 07/09/2024 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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)

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 Tox. 3: Acute toxicity - Category 3

US