

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixtures  
Product name : Sodium Arsenite, 0.5% w/v  
Product code : LC22880

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : For laboratory and manufacturing use only.  
Recommended use : Laboratory chemicals  
Restrictions on use : Not for food, drug or household use

#### 1.3. Supplier

LabChem Inc  
Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court  
Zelienople, PA 16063 - USA  
T 412-826-5230 - F 724-473-0647  
[info@labchem.com](mailto:info@labchem.com) - [www.labchem.com](http://www.labchem.com)

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Carcinogenicity Category 1A H350 May cause cancer (Inhalation, oral)

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS08

Signal word (GHS-US) : Danger  
Hazard statements (GHS-US) : H350 - May cause cancer (Inhalation, oral)  
Precautionary statements (GHS-US) : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves, protective clothing, eye protection.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P405 - Store locked up.  
P501 - Dispose of contents/container to comply with local, state and federal regulations

#### 2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : None under normal conditions.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

# Sodium Arsenite, 0.5% w/v

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Name            | Product identifier  | %    | GHS-US classification                                                                                                                                             |
|-----------------|---------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water           | (CAS-No.) 7732-18-5 | 99.5 | Not classified                                                                                                                                                    |
| Sodium Arsenite | (CAS-No.) 7784-46-5 | 0.5  | Acute Tox. 2 (Oral), H300<br>Acute Tox. 2 (Dermal), H310<br>Acute Tox. 3 (Inhalation), H331<br>Carc. 1A, H350<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411 |

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : May cause cancer by inhalation.

#### 4.3. Immediate medical attention and special treatment, if necessary

Drain stomach by gastric lavage under qualified medical supervision.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

No additional information available

#### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Protective equipment : Safety glasses. Protective clothing. Gloves.
- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# Sodium Arsenite, 0.5% w/v

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.  
Incompatible products : Strong oxidizers. Strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Sodium Arsenite (7784-46-5) |                                          |                                        |
|-----------------------------|------------------------------------------|----------------------------------------|
| ACGIH                       | ACGIH TWA (mg/m <sup>3</sup> )           | 0.01 mg/m <sup>3</sup> as As           |
| OSHA                        | OSHA PEL (TWA) (mg/m <sup>3</sup> )      | 0.01 mg/m <sup>3</sup> as As           |
| IDLH                        | US IDLH (mg/m <sup>3</sup> )             | ≈ 5 mg/m <sup>3</sup> as As            |
| NIOSH                       | NIOSH REL (ceiling) (mg/m <sup>3</sup> ) | 0.002 mg/m <sup>3</sup> 15 min., as As |
| Water (7732-18-5)           |                                          |                                        |
| Not applicable              |                                          |                                        |

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

#### 8.3. Individual protection measures/Personal protective equipment

##### Personal protective equipment:

Gas mask. Gloves. Safety glasses.



##### Hand protection:

Wear protective gloves.

##### Eye protection:

Chemical goggles or safety glasses

##### Skin and body protection:

Chemical resistant apron

##### Respiratory protection:

Gas mask

##### Other information:

Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Color : Colorless  
Odor : None.

# Sodium Arsenite, 0.5% w/v

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

|                                             |                     |
|---------------------------------------------|---------------------|
| Odor threshold                              | : No data available |
| pH                                          | : No data available |
| Melting point                               | : No data available |
| Freezing point                              | : No data available |
| Boiling point                               | : No data available |
| Flash point                                 | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas)                   | : Non flammable.    |
| Vapor pressure                              | : No data available |
| Relative vapor density at 20 °C             | : No data available |
| Relative density                            | : No data available |
| Specific gravity / density                  | : 1 g/ml            |
| Solubility                                  | : Soluble in water. |
| Log Pow                                     | : No data available |
| Auto-ignition temperature                   | : No data available |
| Decomposition temperature                   | : No data available |
| Viscosity, kinematic                        | : No data available |
| Viscosity, dynamic                          | : No data available |
| Explosion limits                            | : No data available |
| Explosive properties                        | : No data available |
| Oxidizing properties                        | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong oxidizers.

### 10.6. Hazardous decomposition products

Arsenic and its oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure : Skin and eye contact

Acute toxicity : Not classified

| Sodium Arsenite, 0.5% w/v   |                        |
|-----------------------------|------------------------|
| LD50 oral rat               | 6308 mg/kg             |
| ATE US (oral)               | 6308 mg/kg body weight |
| Sodium Arsenite (7784-46-5) |                        |
| LD50 oral rat               | 41 mg/kg               |
| LD50 dermal rat             | 150 mg/kg              |
| ATE US (oral)               | 41 mg/kg body weight   |
| ATE US (dermal)             | 150 mg/kg body weight  |
| ATE US (gases)              | 700 ppmV/4h            |

# Sodium Arsenite, 0.5% w/v

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Sodium Arsenite (7784-46-5)       |                                        |
|-----------------------------------|----------------------------------------|
| ATE US (vapors)                   | 3 mg/l/4h                              |
| ATE US (dust, mist)               | 0.5 mg/l/4h                            |
| Water (7732-18-5)                 |                                        |
| LD50 oral rat                     | ≥ 90000 mg/kg                          |
| ATE US (oral)                     | 90000 mg/kg body weight                |
| Skin corrosion/irritation         | : Not classified                       |
| Serious eye damage/irritation     | : Not classified                       |
| Respiratory or skin sensitization | : Not classified                       |
| Germ cell mutagenicity            | : Not classified                       |
| Carcinogenicity                   | : May cause cancer (Inhalation, oral). |

| Sodium Arsenite (7784-46-5)                         |                                                                     |
|-----------------------------------------------------|---------------------------------------------------------------------|
| IARC group                                          | 1 - Carcinogenic to humans                                          |
| National Toxicology Program (NTP) Status            | 2 - Known Human Carcinogens                                         |
| Reproductive toxicity                               | : Not classified                                                    |
| Specific target organ toxicity – single exposure    | : Not classified                                                    |
| Specific target organ toxicity – repeated exposure  | : Not classified                                                    |
| Aspiration hazard                                   | : Not classified                                                    |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/effects after inhalation                   | : May cause cancer by inhalation.                                   |

## SECTION 12: Ecological information

### 12.1. Toxicity

| Sodium Arsenite (7784-46-5) |                |
|-----------------------------|----------------|
| EC50 Daphnia 1              | 1.54 mg/l 48 h |

### 12.2. Persistence and degradability

| Sodium Arsenite, 0.5% w/v     |                                                         |
|-------------------------------|---------------------------------------------------------|
| Persistence and degradability | Not established.                                        |
| Sodium Arsenite (7784-46-5)   |                                                         |
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| Water (7732-18-5)             |                                                         |
| Persistence and degradability | Not established.                                        |

### 12.3. Bioaccumulative potential

| Sodium Arsenite, 0.5% w/v   |                  |
|-----------------------------|------------------|
| Bioaccumulative potential   | Not established. |
| Sodium Arsenite (7784-46-5) |                  |
| Bioaccumulative potential   | Not established. |
| Water (7732-18-5)           |                  |
| Bioaccumulative potential   | Not established. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

# Sodium Arsenite, 0.5% w/v

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT  
Not regulated

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Sodium Arsenite, 0.5% w/v

|                                     |                                 |
|-------------------------------------|---------------------------------|
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard |
|-------------------------------------|---------------------------------|

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

|                 |                   |      |
|-----------------|-------------------|------|
| Sodium Arsenite | CAS-No. 7784-46-5 | 0.5% |
|-----------------|-------------------|------|

##### Sodium Arsenite (7784-46-5)

|                                                              |                                                                                                                                    |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 1 lb                                                                                                                               |
| SARA Section 302 Threshold Planning Quantity (TPQ)           | 10000 lb 500lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form |
| SARA Section 311/312 Hazard Classes                          | Immediate (acute) health hazard<br>Delayed (chronic) health hazard                                                                 |

#### 15.2. International regulations

##### CANADA

##### Sodium Arsenite (7784-46-5)

Listed on the Canadian DSL (Domestic Substances List)

##### EU-Regulations

No additional information available

##### National regulations

No additional information available

#### 15.3. US State regulations

This product can expose you to Sodium Arsenite, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

##### Sodium Arsenite (7784-46-5)

|                                                        |                                                             |                                                                     |                                                                   |                                  |
|--------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List  | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| Yes                                                    | No                                                          | No                                                                  | No                                                                |                                  |
| U.S. - California - Proposition 65 - Other information |                                                             | Listed as Arsenic (inorganic arsenic compounds)                     |                                                                   |                                  |

### SECTION 16: Other information

Revision date : 03/12/2018  
Other information : None.

# Sodium Arsenite, 0.5% w/v

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases: see section 16:

|      |                                                 |
|------|-------------------------------------------------|
| H300 | Fatal if swallowed                              |
| H310 | Fatal in contact with skin                      |
| H331 | Toxic if inhaled                                |
| H350 | May cause cancer                                |
| H401 | Toxic to aquatic life                           |
| H411 | Toxic to aquatic life with long lasting effects |

NFPA health hazard

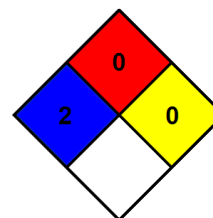
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur  
\* - Chronic (long-term) health effects may result from repeated overexposure

Flammability

: 0 Minimal Hazard - Materials that will not burn

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection

: C  
C - Safety glasses, Gloves, Synthetic apron

SDS US LabChem

*Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.*