



## Material Safety Data Sheet Sodium arsenite

### Section 1 - Chemical Product and Company Identification

**MSDS Name:**

Sodium arsenite

**Catalog Numbers:**

LC22870

**Synonyms:**

Arsenous acid, sodium salt; Sodium metaarsenite; Sodium dioxoarsenate.

**Company Identification:**

LabChem Inc

200 William Pitt Way

Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

### Section 2 – Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7784-46-5	Sodium arsenite	100

### Section 3 - Hazards Identification

#### Emergency Overview

**Appearance:** White to grey-white solid.**Danger!** May be fatal if swallowed. May be fatal if absorbed through the skin. Cancer hazard.

Harmful if inhaled. Contains inorganic arsenic. Causes eye, skin, and respiratory tract irritation.

**Target Organs:** Lungs, skin.

#### Potential Health Effects

**Eye:**

May cause eye irritation.

**Skin:**

May cause skin irritation. May be fatal if absorbed through the skin. Exposure to arsenic compounds may produce hyperpigmentation of the skin and hyperkeratoses of plantar and palmar surfaces as well as both primary irritation and sensitization types.

**Ingestion:**

May be fatal if swallowed. Poison by ingestion. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. All soluble arsenic (As) compounds are considered to be poisonous to humans. Inorganic arsenic is more toxic than organic arsenic. Organic arsenic is excreted more rapidly than inorganic arsenic. Arsenic 5+ is excreted more rapidly than arsenic 3+.



## Material Safety Data Sheet

### Sodium arsenite

**Inhalation:**

Causes respiratory tract irritation. Inhalation of arsenic compounds may lead to irritation of the respiratory tract and to possible nasal perforation. Long-term exposure to arsenic compounds may produce impairment of peripheral circulation.

**Chronic:**

Prolonged or repeated skin contact may cause dermatitis. Inorganic arsenic compounds may cause skin and lung cancers in humans.

### Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:**

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:**

Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:**

Treat symptomatically and supportively.

### Section 5 - Fire Fighting Measures

**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:**

Use water spray, dry chemical, carbon dioxide, or chemical foam.

**Autoignition Temperature:**

Not applicable.

**Flash Point:**

Not applicable.

**NFPA Rating:**

(estimated) Health: 3; Flammability: 0; Instability: 0

**Explosion Limits:**

Lower: n/a Upper: n/a

### Section 6 - Accidental Release Measures

**General Information:**

Use proper personal protective equipment as indicated in Section 8.



## Material Safety Data Sheet

### Sodium arsenite

#### Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

## Section 7 - Handling and Storage

#### Handling:

Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Use only with adequate ventilation or respiratory protection. Change contaminated clothing promptly. Do not take working clothes home.

#### Storage:

Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed. Protect from moisture.

## Section 8 - Exposure Controls, Personal Protection

#### Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

#### Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Sodium arsenite	0.01 mg/m <sup>3</sup> TWA (as As) (listed under Arsenic, inorganic compounds).	5 mg/m <sup>3</sup> IDLH (as As) (listed under Arsenic, inorganic compounds).5 mg/m <sup>3</sup> IDLH (listed under Arsenic).	0.5 mg/m <sup>3</sup> TWA (listed under Arsenic).5 æg/m <sup>3</sup> Action Level (as As); 10 æg/m <sup>3</sup> PEL (as As. Cancer hazard - see 29 CFR 1 910.1018. Arsine excepted) (listed under Arsenic, inorganic compounds).

#### OSHA Vacated PELs:

Sodium arsenite: No OSHA Vacated PELs are listed for this chemical.

### Personal Protective Equipment

#### Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin:

Wear appropriate gloves to prevent skin exposure.

#### Clothing:

Wear appropriate protective clothing to prevent skin exposure.

#### Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.



## Material Safety Data Sheet Sodium arsenite

### Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Solid
<b>Color:</b>	White – grey white
<b>Odor:</b>	None
<b>pH:</b>	basic in solution
<b>Vapor Pressure:</b>	Not available
<b>Vapor Density:</b>	Not available
<b>Evaporation Rate:</b>	Not available
<b>Viscosity:</b>	Not available
<b>Boiling Point:</b>	Decomposes
<b>Freezing/Melting Point:</b>	615°C
<b>Decomposition Temperature:</b>	Not available
<b>Solubility in water:</b>	Soluble
<b>Specific Gravity/Density:</b>	1.87
<b>Molecular Formula:</b>	NaAsO <sub>2</sub>
<b>Molecular Weight:</b>	129.91

### Section 10 - Stability and Reactivity

**Chemical Stability:**

Stable under normal temperatures and pressures. Absorbs carbon dioxide from the air.

**Conditions to Avoid:**

Moisture, extreme temperatures.

**Incompatibilities with Other Materials:**

Strong acids.

**Hazardous Decomposition Products:**

Oxides of arsenic.

**Hazardous Polymerization:**

Has not been reported.

### Section 11 - Toxicological Information

**RTECS:**

CAS# 7784-46-5: CG3675000

**LD50/LC50:**

CAS# 7784-46-5:

Oral, rat: LD50 = 41 mg/kg;

Skin, rat: LD50 = 150 mg/kg

**Carcinogenicity:**

CAS# 7784-46-5:

- **ACGIH:** A1 - Confirmed Human Carcinogen (listed as 'Arsenic, inorganic compounds'). A1 - Confirmed Human Carcinogen (listed as 'Arsenic').
- **California:** carcinogen, initial date 2/27/87 (listed as Arsenic, inorganic compounds).
- **NTP:** Known carcinogen (listed as Arsenic, inorganic compounds).
- **IARC:** Group 1 carcinogen (listed as Arsenic).



## Material Safety Data Sheet Sodium arsenite

### **Epidemiology:**

Epidemiological studies have demonstrated evidence of a causal relationship between environmental, occupational, and medicinal exposure of humans to inorganic arsenic and cancer of the skin and lungs.

### **Teratogenicity:**

Has caused teratogenic effects in animal studies.

### **Reproductive:**

Can cause reproductive effects in animal studies.

### **Mutagenicity:**

See actual entry in RTECS for complete information.

### **Neurotoxicity:**

See actual entry in RTECS for complete information.

## Section 12 - Ecological Information

No information found

## Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

## Section 14 - Transport Information

### **US DOT**

**Shipping Name:** Sodium arsenite, solid

**Hazard Class:** 6.1

**UN Number:** UN2027

**Packing Group:** II

## Section 15 - Regulatory Information

### **US Federal**

#### **TSCA:**

CAS# 7784-46-5 is listed on the TSCA inventory.

#### **SARA Reportable Quantities (RQ):**

CAS# 7784-46-5: 1 lb final RQ; 0.454 kg final RQ

#### **CERCLA/SARA Section 313:**

This material contains sodium arsenite (listed as Arsenic, inorganic compounds), 100%, (CAS# 7784-46-5) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

#### **OSHA - Highly Hazardous:**

None of the chemicals in this product are considered highly hazardous by OSHA.



## Material Safety Data Sheet

### Sodium arsenite

#### US State

##### State Right to Know:

CAS# 7784-46-5 can be found on the following state right to know lists: California, (listed as Arsenic compounds, n.o.s.), New Jersey, (listed as Arsenic compounds, n.o.s.), Pennsylvania, (listed as Arsenic compounds, n.o.s.), Minnesota, (listed as Arsenic organic compounds), Massachusetts, (listed as Arsenic compounds).

##### California Regulations:

WARNING: This product contains Sodium arsenite, listed as 'Arsenic, inorganic compounds', a chemical known to the state of California to cause cancer.

#### European/International Regulations

##### Canadian DSL/NDSL:

CAS# 7784-46-5 is listed on Canada's NDSL List.

##### Canada Ingredient Disclosure List:

CAS# 7784-46-5 is listed on the Canadian Ingredient Disclosure List.

## Section 16 - Other Information

MSDS Creation Date: November 14, 2007

Revision Date: March 9, 2010

*Information in this MSDS 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 MSDS. The user must determine suitability of this information for his application.*