

# Material Safety Data Sheet

## (11650 and 11652)

### Section 1: Chemical Product and Company Identification

**Product Name:** Sodium cacodylate Buffer  
0.2 Molar, pH 7.4

**Catalog Number:** 11650 and 11652

**CAS#:** See no. 2 below

**Contact Information:**  
**Electron Microscopy Sciences**

1560 Industry Road  
Hatfield, PA 19440

1-215-412-8400 (phone)

1-800-523-5874 (toll-free)

1-215-412-8450 (fax)

**Order Online:** [emsdiasum.com](http://emsdiasum.com)

**CHEMTREC (24-Hour Emergency Telephone), call:** 1-800-424-9300

### Section 2: Composition and Information on Ingredients

CAS No.	EC No.	Index No.	
<b>Sodium dimethylarsinate</b>			
124-65-2	204-708-2	033-002-00-5	4.28%
<b>Water</b>			
7732-18-5	231-791-2	---	Balance

### Section 3: Hazards Identification

#### Emergency Overview

#### OSHA Standards

Flammable Liquid, Carcinogen, Target Organ Effect, Irritant

#### Target Organs

Nerves, Kidney, Cardiovascular system, Gastrointestinal tract, Liver

#### HMIS Classification

**Health Hazard:** 2

**Chronic Health Hazard:** \*

**Flammability:** 3

**Physical Hazards:** 0

**NFPA Rating**

<b>Health Hazard:</b>	<b>2</b>
<b>Fire:</b>	<b>3</b>
<b>Reactivity Hazard:</b>	<b>0</b>

**Potential Health Effects**

<b>Inhalation:</b>	<b>May be harmful if inhaled. Causes respiratory tract irritation.</b>
<b>Skin:</b>	<b>May be harmful if absorbed through skin. Causes skin irritation.</b>
<b>Eyes</b>	<b>Causes eye irritation.</b>
<b>Ingestion</b>	<b>May be harmful if swallowed.</b>

**Section 4: First Aid Measures**

**General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If Inhaled:** If breathed in, move person into fresh air. If not breathing give artificial respiration and Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician,

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Section 5: Fire and Explosion Data****Flammable properties**

Flash point	37.0°C (98.6 °F) – closed cup
Ignition temperature	no data available

**Suitable extinguishing media**

For small (incipient) fires, use media such as “alcohol” foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus for fire fighting, if necessary.

**Further Information**

Use water spray to cool unopened containers.

## Section 6: Accidental Release Measures

### Personal Precautions

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### Methods for Cleaning Up

Contain spillage, and then collect with non-combustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13). Keep in suitable, closed containers for disposal.

## Section 7 : Handling and Storage

**Handling:** Avoid inhalation of vapor or mist. Keep away from sources of ignition – No smoking. Take measures to prevent the build-up of electrostatic charge.

**Storage:** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

Recommended storage temperature: 2-8°C

## Section 8: Exposure Controls/Personal Protection

### Personal Protective Equipment

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a back-up to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand Protection:** Handle with gloves.

**Eye Protection:** Safety glasses.

**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Hygiene Measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

## Section 9: Physical and Chemical Properties

### Appearance

Form	clear, liquid
Color	colorless

### Safety Data

pH	7.4
melting point	no data available
boiling point	no data available
flash point	37.0°C (98.6°F) – closed cup
Ignition temperature	no data available
Lower explosion limit:	no data available
Upper explosion limit:	no data available
Density	0.985 g/cm <sup>3</sup>
Water solubility	no data available

## Section 10: Stability and Reactivity Data

**Storage Stability:** Stable under recommended storage conditions.

**Conditions to Avoid:** Heat, flames and sparks

**Materials to Avoid:** Strong bases

**Hazardous Decomposition Products:** Hazardous decomposition products formed under fire conditions. – carbon oxides

**Hazardous Reactions** – Vapors may form explosive mixture with air.

## Section 11: Toxicological Information

**Acute Toxicity:** no data available.

**Irritation and Corrosion:** no data available

**Sensitization:** no data available

### Chronic Exposure:

IARC: 1 – Group 1: Carcinogenic to humans (sodium dimethylarsinate)

IARC: 3 – Group 3: Not classifiable as to its carcinogenicity to humans (Propan-2-ol)

NTP: No component of this product present at levels greater than or equal to 0.1% is Identified as a known or anticipated carcinogen by NTP.

OSHA: 1910.1018 (Sodium dimethylarsinate)

### Signs and Symptoms of Exposure

Nausea, headache, vomiting, narcosis. Central nervous system depression. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### Potential Health Effects

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.  
**Skin:** May be harmful if absorbed through skin. Causes skin irritation.  
**Eyes:** Causes eye irritation.  
**Ingestion:** May be harmful, if swallowed.  
**Target Organs:** Nerves, Kidney, Cardiovascular system. Gastrointestinal tract, liver.

### Section 12: Ecological Information

#### Elimination Information (persistence and degradability)

No data available

#### Ecotoxicity effects:

No data available

#### Further information on Ecology:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Section 13: Disposal Considerations

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but extra care in igniting as this material is highly flammable. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated Packaging

Dispose of as unused product.

### Section 14: Transport Information

Not regulated.

### Section 15: Other Regulatory Information

**OSHA Hazards:** Flammable liquid, Carcinogen, Target Organ Effect, Irritant

#### SARA 302 Components

	CAS No.	Revision Date
Sodium dimethylarsinate	124-65-2	1993-04-24

**SARA 313 Components**

	CAS No.	Revision Date
Sodium dimethylarsinate	124-65-2	1993-04-24

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right to Know Components**

	CAS No.	Revision Date
Sodium dimethylarsinate	124-65-2	1993-04-24

**Pennsylvania Right to Know Components**

	CAS No.	Revision Date
Water	7732-18-5	

**New Jersey Right to Know Components**

	CAS No.	Revision Date
Water	7732-18-5	
Sodium dimethylarsinate	124-65-2	1993-04-24

**California Prop. 65 Components**WARNING! This product contains a chemical known  
In the State of California to cause cancer

	CAS No.	Revision Date
Sodium dimethylarsinate	124-65-2	1987-02-27

**Section 16: Other Information:****Date Updated, Verified and Printed: June 28, 2011**

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Electron Microscopy Sciences be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Electron Microscopy Sciences has been advised of the possibility of such damages.*