

**SIGMA-ALDRICH**

## Material Safety Data Sheet

Version 3.0  
Revision Date 08/24/2008  
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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : **Disodium methyl arsenate**  
Product Number : PS281  
Brand : Supelco  
Company : **Sigma-Aldrich**  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA  
Telephone : +18003255832  
Fax : +18003255052  
Emergency Phone # : (314) 776-6555

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS-No.                        | EC-No.    | Index-No.    | Concentration |
|--------------------------------|-----------|--------------|---------------|
| <b>Disodium methylarsonate</b> |           |              |               |
| 144-21-8                       | 205-620-7 | 033-002-00-5 | -             |

### 3. HAZARDS IDENTIFICATION

#### Emergency Overview

##### OSHA Hazards

Carcinogen, Harmful by ingestion.

#### HMIS Classification

Health Hazard: 1  
Flammability: 0  
Physical hazards: 0

#### NFPA Rating

Health Hazard: 1  
Fire: 0  
Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes** May cause eye irritation.  
**Ingestion** Harmful if swallowed.

### 4. FIRST AID MEASURES

Supelco - PS281  
Delivery 0834759488-000010 Purchase Order CCS-6655

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#### 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. 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

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point no data available

Ignition temperature no data available

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

#### Environmental precautions

Do not let product enter drains.

#### Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

#### Handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

#### Personal protective equipment

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Hand protection

Handle with gloves.

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**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**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

|        |            |
|--------|------------|
| Form   | solid      |
| Colour | colourless |

**Safety data**

|                       |                   |
|-----------------------|-------------------|
| pH                    | no data available |
| Melting point         | no data available |
| Boiling point         | no data available |
| Flash point           | no data available |
| Ignition temperature  | no data available |
| Lower explosion limit | no data available |
| Upper explosion limit | no data available |
| Water solubility      | no data available |

**10. STABILITY AND REACTIVITY****Storage stability**

Stable under recommended storage conditions.

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

LD50 Oral - rat - 821 mg/kg

LC50 Inhalation - rat - 4 h - > 22,100 mg/m<sup>3</sup>

LD50 Dermal - rabbit - 10,000 mg/kg

**Irritation and corrosion**

no data available

**Sensitisation**

no data available

**Chronic exposure**

IARC: Group 1 - Carcinogenic to humans (Disodium methylarsenate)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Genotoxicity in vitro - Ames test - Equivocal evidence.

Developmental Toxicity - Hamster - Intraperitoneal

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus), Effects on Embryo or Fetus: Fetal death.

Developmental Toxicity - Hamster - Intraperitoneal

Effects on Embryo or Fetus: Other effects to embryo.

**Potential Health Effects**

|                   |                                                                     |
|-------------------|---------------------------------------------------------------------|
| <b>Inhalation</b> | May be harmful if inhaled. May cause respiratory tract irritation.  |
| <b>Skin</b>       | May be harmful if absorbed through skin. May cause skin irritation. |
| <b>Eyes</b>       | May cause eye irritation.                                           |
| <b>Ingestion</b>  | Harmful if swallowed.                                               |

**Additional Information**

RTECS: PA2275000

**12. ECOLOGICAL INFORMATION****Elimination Information (persistence and degradability)**

no data available

**Ecotoxicity effects**

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - &gt; 114 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates. EC50 - Daphnia pulex (Water flea) - 153 mg/l - 48 h

**Further Information on ecology****13. DISPOSAL CONSIDERATIONS****Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION****DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 15. REGULATORY INFORMATION

##### OSHA Hazards

Carcinogen, Harmful by ingestion.

##### DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

|                         |          |
|-------------------------|----------|
|                         | CAS-No.  |
| Disodium methylarsonate | 144-21-8 |

##### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

##### SARA 313 Components

|                         |          |               |
|-------------------------|----------|---------------|
|                         | CAS-No.  | Revision Date |
| Disodium methylarsonate | 144-21-8 | 1987-01-01    |

##### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

##### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

##### Pennsylvania Right To Know Components

|                         |          |               |
|-------------------------|----------|---------------|
|                         | CAS-No.  | Revision Date |
| Disodium methylarsonate | 144-21-8 | 1987-01-01    |

##### New Jersey Right To Know Components

|                         |          |               |
|-------------------------|----------|---------------|
|                         | CAS-No.  | Revision Date |
| Disodium methylarsonate | 144-21-8 | 1987-01-01    |

##### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

#### 16. OTHER INFORMATION

##### Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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