1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Sodium (meta)arsenate
Product Number: 57400
Brand: Aldrich
Supplier: Sigma-Aldrich
Address: 3350 Spruce Street, SAINTE LOUIS MO 63003 USA
Telephone: +1 800-325-5832
Fax: +1 800-325-5052
Emergency Phone #: (314) 776-6555
Preparation Information: Sigma-Aldrich Corporation, Product Safety - Americas Region

2. HAZARDS IDENTIFICATION

Emergency Overview
OSHA Hazards
Carcinogen, Toxic by inhalation, Highly toxic by ingestion, Highly toxic by skin absorption
Target Organs
Skin, Lungs

GHS Classification
Acute toxicity, Oral (Category 2)
Acute toxicity, Inhalation (Category 3)
Carcinogenicity (Category 1A)
Acute aquatic toxicity (Category 1)

GHS Label elements, Including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)
H300 + H310: Fatal if swallowed or in contact with skin
H331: Toxic if inhaled.
H330: May cause cancer.
H400: Very toxic to aquatic life.

Precautionary statement(s)
P201: Obtain special instructions before use.
P201: Avoid breathing dust/lime/gaz/mist/vapours/spray.
P204: Wash hands thoroughly after handling.
P273: Avoid release to the environment.
P200: Wear protective gloves/protective clothing.
P102/104: In case of contact: Wash skin with plenty of soap and water.
P101: In case of release: Wear self-contained breathing apparatus for fire fighting if necessary.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Sodium dioxoarsenate
Formula: AsNaO2
Molecular Weight: 129.91 g/mol

Component: Sodium dioxoarsenate
CAS-No.: 7784-46-5
EC-No.: 222-070-5
Index-No.: 033-002-00-5

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. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

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

5. FIREFIGHTING MEASURES

Conditions of flammability
Not flammable or combustible.

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

Special protective equipment for firefighters
Wear self-contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products
Hazardous decomposition products formed under fire conditions. - Sodium oxides, Arsenic oxides

6. ACCIDENTAL RELEASE MEASURES
Personal precautions
Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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 and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place.

Air sensitive. Store under inert gas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium diacetate</td>
<td>7774-38-5</td>
<td>TWA</td>
<td>0.01 mg/m³</td>
<td>USA: ACGIH Threshold Limit Values (TLV)</td>
</tr>
<tr>
<td>Lung cancer Substances for which there is a Biological Exposure Index or Indices (see BEI³ section) Confirmed human carcinogen varies</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>0.006 mg/m³</td>
<td>USA: NIOSH Recommended Exposure Limits</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Personal protective equipment
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup 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. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection
Complete skin protection against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form solid
Colour no data available

Safety data
pH no data available
Melting point no data available
Boiling point no data available
Flash point not applicable
Ignition temperature no data available
Autoignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Vapour pressure no data available
Density 1.870 g/cm³
Water solubility no data available
Partition coefficient: n-octanol/Water no data available
Relative vapour density no data available
Odour no data available
Odour Threshold no data available
Evaporation rate no data available

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
no data available

Conditions to avoid
Avoid moisture.

Materials to avoid
Strong oxidizing agents, Strong acids

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Sodium oxides, Arsenic oxides
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION
Acute toxicity

Oral LD50
LD50 Oral - rat - 41 mg/kg

Inhalation LC50
Dermal LD50
LC50 Dermal - rat - 150 mg/kg

Other information on acute toxicity
no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
Human carcinogen.

IARC: 1 - Group 1: Carcinogenic to humans (Sodium dixoarsenate)

NTUP: Known to be human carcinogen (Sodium coxarsenate)

Reproductive toxicity

no data available

Teratogenicity

no data available

Specific target organ toxicity - single exposure ( Globally Harmonized System)
no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)
no data available

Aspiration hazard
no data available

Potential health effects

Inhalation
Toxic if inhaled. May cause respiratory tract irritation.

Ingestion
May be fatal if swallowed.

Skin
May be fatal if absorbed through skin. May cause skin irritation.

Eyes
May cause eye irritation.

Signs and Symptoms of Exposure
Exposure to arsenic compounds can cause, Gastrointestinal disturbance, Cardiovascular effects, Neurological disorders

Synergistic effects
no data available

Additional information
RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity
Toxicity to daphnia EC50 - Daphnia magna (Water flea) - 1.54 mg/l - 48 h and other aquatic invertebrates

Persistence and degradability
no data available

Bioaccumulative potential
no data available

Mobility in soil
no data available

PBET and vPvB assessment
no data available

Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible adhesive and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 2027 Class: 6.1 Packing group II
Proper shipping name: Sodium arsenite, solid
Reportable Quantity (RQ): 1 lbs
Marine pollutant: No
Poison Inhalation Hazard: No

IMDG
UN number: 2027 Class: 6.1 Packing group II
Proper shipping name: SODIUM ARSENITE, SOLID
Marine pollutant: No

IATA
UN number: 5027 Class: 6.1 Packing group II
Proper shipping name: Sodium arsenite, solid

15. REGULATORY INFORMATION

OSHA Hazards
Carcinogen, Toxic by inhalation., Highly toxic by ingestion., Highly toxic by skin absorption

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Revision Date</th>
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<td>2007-07-01</td>
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### SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

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<tbody>
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### SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

### Massachusetts Right To Know Components

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### Pennsylvania Right To Know Components

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### New Jersey Right To Know Components

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

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</tbody>
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### 16. OTHER INFORMATION

Further Information
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