



# MATERIAL SAFETY DATA SHEET SDS/MSDS

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : **Sodium Arsenite**

CAS-No. : 7784-46-5

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Industrial & for professional use only.

### 1.3 Details of the supplier of the safety data sheet

Company Bio-Chem Chemicals  
5455 Nicholson Road, Science Market  
Ambala Cantt, 133001 - Haryana  
+91 82952 41953  
info@biofinechemical.com - www.biofinechemical.com

### 1.4 Emergency telephone number

Emergency Phone # : +91 99921 51495 (10.00am - 06.30pm) (Office Hours)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 2), H300  
Acute toxicity, Inhalation (Category 3), H331  
Acute toxicity, Dermal (Category 2), H310  
Carcinogenicity (Category 1A), H350  
Acute aquatic toxicity (Category 1), H400  
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

|   |                               |           |
|---|-------------------------------|-----------|
| T | Toxic                         | R23/24/25 |
| N | Dangerous for the environment | R50/53    |
| T | Toxic                         | R45       |

For the full text of the R-phrases mentioned in this Section, see Section 16.

### 2.2 Label elements

#### Labelling according Regulation (EC) No 1272/2008

## Pictogram



|                                |                                                                     |
|--------------------------------|---------------------------------------------------------------------|
| Signal word                    | Danger                                                              |
| Hazard statement(s)            |                                                                     |
| H300 + H310                    | Fatal if swallowed or in contact with skin                          |
| H331                           | Toxic if inhaled.                                                   |
| H350                           | May cause cancer.                                                   |
| H410                           | Very toxic to aquatic life with long lasting effects.               |
| Precautionary statement(s)     |                                                                     |
| P201                           | Obtain special instructions before use.                             |
| P261                           | Avoid breathing dust.                                               |
| P264                           | Wash hands thoroughly after handling.                               |
| P273                           | Avoid release to the environment.                                   |
| P280                           | Wear protective gloves/ protective clothing.                        |
| P301 + P310                    | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| Supplemental Hazard Statements | none                                                                |

Restricted to professional users.

### 2.3 Other hazards - none

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |   |                      |
|------------------|---|----------------------|
| Synonyms         | : | Sodium dioxoarsenate |
| Formula          | : | AsNaO <sub>2</sub>   |
| Molecular Weight | : | 129,91 g/mol         |
| CAS-No.          | : | 7784-46-5            |
| EC-No.           | : | 232-070-5            |
| Index-No.        | : | 033-002-00-5         |

#### Hazardous ingredients according to Regulation (EC) No 1272/2008

| Component                   |              | Classification                                                    | Concentration |
|-----------------------------|--------------|-------------------------------------------------------------------|---------------|
| <b>Sodium dioxoarsenate</b> |              |                                                                   |               |
| CAS-No.                     | 7784-46-5    | Acute Tox. 2; Acute Tox. 3;                                       | <= 100 %      |
| EC-No.                      | 232-070-5    | Acute Tox. 2; Carc. 1A;                                           |               |
| Index-No.                   | 033-002-00-5 | Aquatic Acute 1; Aquatic Chronic 1; H350, H300 + H310, H331, H410 |               |

#### Hazardous ingredients according to Directive 1999/45/EC

| Component                   |              | Classification          | Concentration |
|-----------------------------|--------------|-------------------------|---------------|
| <b>Sodium dioxoarsenate</b> |              |                         |               |
| CAS-No.                     | 7784-46-5    | T, N, R45 - R23/24/25 - | <= 100 %      |
| EC-No.                      | 232-070-5    | R50/53                  |               |
| Index-No.                   | 033-002-00-5 |                         |               |

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

**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.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed**

no data available

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

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

**5.2 Special hazards arising from the substance or mixture**

Sodium oxides, Arsenic oxides

**5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information**

no data available

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.  
For personal protection see section 8.

**6.2 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.

**6.3 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.

**6.4 Reference to other sections**

For disposal see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

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

Air sensitive. Store under inert gas.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Components with workplace control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

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

#### Personal protective equipment

##### Eye/face 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 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.

##### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### 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).

##### Control of environmental exposure

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                 |                   |
|-------------------------------------------------|-------------------|
| a) Appearance                                   | Form: solid       |
| b) Odour                                        | no data available |
| c) Odour Threshold                              | no data available |
| d) pH                                           | no data available |
| e) Melting point/freezing point                 | no data available |
| f) Initial boiling point and boiling range      | no data available |
| g) Flash point                                  | not applicable    |
| h) Evaporation rate                             | no data available |
| i) Flammability (solid, gas)                    | no data available |
| j) Upper/lower flammability or explosive limits | no data available |
| k) Vapour pressure                              | no data available |
| l) Vapour density                               | no data available |
| m) Relative density                             | 1,870 g/cm3       |

- |    |                                        |                   |
|----|----------------------------------------|-------------------|
| n) | Water solubility                       | no data available |
| o) | Partition coefficient: n-octanol/water | no data available |
| p) | Auto-ignition temperature              | no data available |
| q) | Decomposition temperature              | no data available |
| r) | Viscosity                              | no data available |
| s) | Explosive properties                   | no data available |
| t) | Oxidizing properties                   | no data available |

**9.2 Other safety information**  
no data available

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

no data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

no data available

**10.4 Conditions to avoid**

Avoid moisture.

**10.5 Incompatible materials**

Strong oxidizing agents, Strong acids

**10.6 Hazardous decomposition products**

Other decomposition products - no data available

In the event of fire: see section 5

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

LD50 Oral - rat - 41 mg/kg

LD50 Dermal - rat - 150 mg/kg

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

Human carcinogen.

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

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

RTECS: Not available

Exposure to arsenic compounds can cause:, Gastrointestinal disturbance, Cardiovascular effects., Neurological disorders

**SECTION 12: Ecological information****12.1 Toxicity**

Toxicity to daphnia and other aquatic invertebrates      EC50 - Daphnia magna (Water flea) - 1,54 mg/l - 48 h

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

Very toxic to aquatic life with long lasting effects.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. 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.

**SECTION 14: Transport information****14.1 UN number**

ADR/RID: 2027

IMDG: 2027

IATA: 2027

**14.2 UN proper shipping name**

ADR/RID: SODIUM ARSENITE, SOLID

IMDG: SODIUM ARSENITE, SOLID

IATA: Sodium arsenite, solid

**14.3 Transport hazard class(es)**

ADR/RID: 6.1

IMDG: 6.1

IATA: 6.1

**14.4 Packaging group**

ADR/RID: II

IMDG: II

IATA: II

**14.5 Environmental hazards**

ADR/RID: yes

IMDG Marine pollutant: yes

IATA: no

**14.6 Special precautions for user**

no data available

## SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

## SECTION 16: Other information

### Full text of H-Statements referred to under sections 2 and 3.

|                 |                                            |
|-----------------|--------------------------------------------|
| Acute Tox.      | Acute toxicity                             |
| Aquatic Acute   | Acute aquatic toxicity                     |
| Aquatic Chronic | Chronic aquatic toxicity                   |
| Carc.           | Carcinogenicity                            |
| H300            | Fatal if swallowed.                        |
| H300 + H310     | Fatal if swallowed or in contact with skin |
| H310            | Fatal in contact with skin.                |
| H331            | Toxic if inhaled.                          |
| H350            | May cause cancer.                          |

### Full text of R-phrases referred to under sections 2 and 3

|           |                                                                                                  |
|-----------|--------------------------------------------------------------------------------------------------|
| N         | Dangerous for the environment                                                                    |
| T         | Toxic                                                                                            |
| R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed.                                      |
| R45       | May cause cancer.                                                                                |
| R50/53    | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |