

# Arsenazo I trisodium salt: sc-291910



The Power to Question

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

**Product Name:** Arsenazo I trisodium salt

**Supplier:**

Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, California 95060  
800.457.3801 or 831.457.3800

**Catalog Number:** sc-291910

**Emergency:**

ChemWatch  
Within the US & Canada: 877-715-9305  
Outside the US & Canada: +800 2436 2255  
(1-800-CHEMCALL) or call +613 9573 3112

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
ARSENAZO I TRISODIUM SALT	520-10-5	90 - 100%	0.01 mg/m <sup>3</sup> TWA	0.5 mg/m <sup>3</sup> TWA

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Toxic: danger of very serious irreversible effects if swallowed. May also have serious irreversible effects through skin contact or inhalation.

**Category of Danger:**

Toxic , Carc. cat. 1, Dangerous for the environment

**Principle routes of exposure:** Skin

**Inhalation:** Harmful: possible risk of irreversible effects through inhalation.

**Ingestion:** Toxic: danger of very serious irreversible effects if swallowed.

**Skin contact:** Harmful: danger of serious damage to health by prolonged skin contact.

**Eye contact:** Risk of serious damage to eyes

**Statements of hazard** Toxic if swallowed

**Statement of Spill or Leak - ANSI Label** Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

**Statement of First Aid** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.

**Precautions - ANSI Label** Do not taste or swallow. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not breathe vapors or spray mist

### 4. FIRST AID MEASURES

**General advice:** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Inhalation:** Move to fresh air. Call a physician immediately.

**Skin contact:** Rinse immediately with plenty of water for at least 15 minutes

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Consult a physician Drink 1 or 2 glasses of water. Induce vomiting, but only if victim is fully conscious. Induce vomiting if person is conscious.

**Eye contact:** Flush eye(s) immediately with plenty of water. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Protection of first-aiders:** No information available

**Medical conditions aggravated by exposure:** None known

## 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Use dry chemical, CO <sub>2</sub> , water spray or "alcohol" foam
<b>Specific hazards:</b>	Burning produces irritant fumes.
<b>Unusual hazards:</b>	None known
<b>Special protective equipment for firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
<b>Specific methods:</b>	Water mist may be used to cool closed containers.
<b>Flash point:</b>	Not determined
<b>Autoignition temperature:</b>	Not determined
<b>NFPA rating:</b>	
NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Use personal protective equipment.
<b>Environmental precautions:</b>	Prevent product from entering drains.
<b>Methods for cleaning up:</b>	Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

<b>Storage:</b>	ROOM TEMPERATURE
<b>Handling:</b>	Use only in area provided with appropriate exhaust ventilation.
<b>Safe handling advice:</b>	Wear personal protective equipment. Remove and wash contaminated clothing before reuse.
<b>Technical measures/storage conditions:</b>	Keep containers tightly closed in a cool, well-ventilated place. Keep container tightly closed in a dry and well-ventilated place.
<b>Incompatible products:</b>	Oxidising and spontaneously flammable products

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** Ensure adequate ventilation, especially in confined areas.

### PERSONAL PROTECTIVE EQUIPMENT

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed.

**Hand protection:** Pvc or other plastic material gloves

**Skin and body protection:** Impervious clothing Long sleeved clothing

**Eye protection:** Safety glasses with side-shields

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Powder
<b>Formula:</b>	C <sub>16</sub> H <sub>10</sub> AsN <sub>2</sub> O <sub>11</sub> S <sub>2</sub> Na <sub>3</sub>
<b>Molecular weight:</b>	614.3
<b>Melting point/range:</b>	No data available at this time.
<b>Boiling point/range:</b>	No Data available at this time.
<b>Density:</b>	No data available
<b>Vapor pressure:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Vapor density:</b>	No data available

**Solubility (in water):** No data available  
**Flash point:** Not determined  
**Autoignition temperature:** Not determined

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.  
**Polymerization:** None under normal processing.  
**Hazardous decomposition products:** Arsenic oxides  
**Materials to avoid:** -  
 Incompatible with strong acids, strong oxidizers, peroxides, bromine pentafluoride, bromine trifluoride, cesium acetylene carbide, chromium trioxide, nitrogen trichloride, silver nitrate.  
**Conditions to avoid:** Exposure to air or moisture over prolonged periods.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Acute toxicity

##### Components

ARSENAZO I TRISODIUM SALT

#### RTECS Number:

Not Available

#### Selected LD50s and LC50s

Oral LD50 Rat : 763 mg/kg  
 Oral LD50 Mouse : 145 mg/kg

**Chronic toxicity:** Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.  
**Local effects:** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
**Specific effects:** May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.  
**Primary irritation:** No data is available on the product itself.  
**Carcinogenic effects:** A known carcinogen.  
**Mutagenic effects:** No data is available on the product itself.  
**Reproductive toxicity:** No data is available on the product itself.

##### Components

ARSENAZO I TRISODIUM SALT

#### NIOSH - Health Effects

Lung and lymphatic cancer, dermatitis

#### NIOSH - Target Organs

liver, kidneys, skin, lungs, lymphatic system, lung and lymphatic cancer

## 12. ECOLOGICAL INFORMATION

**Mobility:** No data available  
**Bioaccumulation:** No data available  
**Ecotoxicity effects:** No data available  
**Aquatic toxicity:** May cause long-term adverse effects in the aquatic environment.

##### Components

ARSENAZO I TRISODIUM SALT

#### U.S. DOT - Appendix B - Marine Pollutan

Not Listed

#### U.S. DOT - Appendix B - Severe Marine Pollutants

Not Listed

#### United Kingdom - The Red List:

Not Listed

##### Components

ARSENAZO I TRISODIUM SALT

#### Germany VCI (WGK)

Not Listed

#### World Health Organization (WHO) - Drinking Water

0.01 mg/L (Provisional)

#### Ecotoxicity - Fish Species Data

Not Listed

##### Components

ARSENAZO I TRISODIUM SALT

#### Ecotoxicity - Freshwater Algae Data

Not Listed

#### Ecotoxicity - Microtox Data

Not Listed

#### Ecotoxicity - Water Flea Data

Not Listed

<b>Components</b>	<b>EPA - ATSDR Priority List</b>	<b>EPA - HPV Challenge Program Chemical List</b>	<b>California - Priority Toxic Pollutants</b>
ARSENAZO I TRISODIUM SALT	Rank (of 275): 001	Not Listed	Maximum concentration = 340 ug/L; continuous concentration = 150 ug/L

<b>Components</b>	<b>California - Priority Toxic Pollutants</b>	<b>California - Priority Toxic Pollutants</b>
ARSENAZO I TRISODIUM SALT	Not Listed	Maximum concentration = 69 ug/L; continuous concentration = 36 ug/L

**13. DISPOSAL CONSIDERATIONS**

**Waste from residues / unused products:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

**Contaminated packaging:** Do not re-use empty containers

**14. TRANSPORT INFORMATION**

**UN/Id No:** 3077

**DOT:**

**Proper shipping name:** Environmentally hazardous substance, solid, n.o.s.  
**IATA Hazard Label(s):** Miscellaneous  
**Hazard Class:** 9 -  
Other miscellaneous materials

**Packing group:** III

**Emergency Response Guide Number (ERG):** 171

<b>Components</b>	<b>U.S. DOT - Appendix A Table 1 - Reportable Quantities</b>
ARSENAZO I TRISODIUM SALT	RQ = 1 pound (0.454 kg); The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 micrometers (0.004 inches).

**TDG (Canada):**

**WHMIS hazard class:** D2a very toxic materials

: 

**IMDG/IMO**

**Proper shipping name:** Environmentally hazardous substance, solid, n.o.s.

**IMDG - Hazard Classifications** IMDG class or division = 6.1  
**IMDG - Potential Marine Pollutants** UN1556 (liquid); UN1557 (solid)  
**IMDG - Regulated Substances** UN1558

<b>Components</b>	<b>U.S. DOT - Appendix B - Marine Pollutan</b>	<b>U.S. DOT - Appendix B - Severe Marine Pollutants</b>
ARSENAZO I TRISODIUM SALT	Not Listed	Not Listed

**IMO-labels:**

## 15. REGULATORY INFORMATION

### International Inventories

#### Components

ARSENAZO I TRISODIUM SALT

**Inventory - United States TSCA - Sect. 8(b)**

Present

**Canada DSL Inventory List -**

Not Listed

**Australia (AICS):**

Present

**EU EINECS List -**

208-285-5; C16H13AsN2O11S2

**Korean KECL:**

KE-01933

**Philippines PICCS:**

Present

#### U.S. regulations:

##### Components

ARSENAZO I TRISODIUM SALT

**California Proposition 65**

-  
Not Listed

**Massachusetts Right to Know List:**

carcinogen; extraordinarily hazardous

**New Jersey Right to Know List:**

sn 0152

**Pennsylvania Right to Know List:**

environmental hazard; special hazardous substance (any compound of this substance is also an environmental hazard)

##### Components

ARSENAZO I TRISODIUM SALT

**Florida substance List:**

[present]

**Rhode Island Right to Know List:**

Toxic, Carcinogen

**Illinois - Toxic Air Contaminants**

A Carcinogen, Present on Great Waters or Great Lakes list

**Connecticut - Hazardous Air Pollutants**

0.05 ug/m<sup>3</sup> HLV

##### Components

ARSENAZO I TRISODIUM SALT

**SARA 313 Emission reporting/Toxic Release of Chemicals**

form R reporting required for 0.1% de minimis concentration

**CERCLA/SARA - Section 302 Extremely Haz**

Not Listed

**NTP:**

None

**IARC:**

Supplement 7, 1987; Monograph 23, 1980; (This evaluation applies to the group of compounds as a whole and not necessarily to all individual compounds within the group)

#### **SARA 313 Notification:**

The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

#### **State Notification:**

The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

## 16. OTHER INFORMATION

***The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.***

7/27/2012