DATE OF LAST REVISION: 08/02/16

Section 1: Identification

Product Name: Arsenic Selenium Alloy

**Company:** Angstrom Sciences, Inc.

40 South Linden Street
Duquesne, PA 15110
For more information call: 412-469-8466

OF THOSE INTO THROUGH CAIL. 412-405-0400

(Monday - Friday 9:00 AM -5:00 PM EST)

Section 2: HAZARD IDENTIFICATION
Signal Word: Danger



**Hazard Statements**: H301 + H331: Toxic if swallowed or inhaled

H373: May cause damage to organs through prolonged or repeated

exposure

Precautionary Statements: P260: Do not breath dust/fume/gas/mist/vapors/spray

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER

or doctor/physician

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing P321: Specific treatment (see on this label)

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3
Flammability: 1
Physical: 1

#### Section 3: Composition/Information on Ingredients

Chemical Family: Metal Alloy Additional Names: N/A

Arsenic (As):

Selenium (Se):

Percentage: 0-100 wt% CAS#: 7782-49-2 EC#: 231-957-4

#### Section 4: FIRST AID MEASURES

**General Treatment:** Remove any contaminated clothing.

Supply oxygen if breathing is difficult.

Seek medical attention if symptoms persist.

**Special Treatment**: None **Important Symptoms**: None

**Eye Contact**: Flush eyes with water, blinking often for several minutes.

**Skin Contact:** Wash affected area with mild soap and water.

**Inhalation:** Remove to fresh air. Supply oxygen if breathing is difficult.

**Ingestion** Do not induce vomiting. Seek medical attention.

#### Section 5: FIRE FIGHTING MEASURES

Extinguishing Media: No special restrictions - use suitable extinguishing agent for

surrounding material and type of fire. Do not use water for metal fires -

use CO<sub>2</sub>, sand, extinguishing powder.

Flammability: Non-Flammable. except as powder

Special Fire Fighting Procedure: Use full-face, self contained breathing apparatus with full protective

clothing to prevent contact with skin and eyes. See section 10 for

decomposition products.

#### Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate respiratory and protective equipment specified in special

protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a

closed container for disposal. Take care not to raise dust.

**Environmental Precautions:** Isolate runoff to prevent environmental pollution.

#### Section 7: HANDLING AND STORAGE

Handling Precautions for safe handling: Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in Section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit.

#### Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Permissible Exposure Limits: 0.2\*0.01\*\* mg/m³ as Se\*\* As (inorganic),, long-term value

Threshold Limit Value: 0.01 mg/m³ as As, long-term value

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust respirator
Rubber Gloves

**Eye Protection:** Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long sleeves/pants.

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Color: Grey/Brown Odor: Odorless Water Solubility: Insoluble **Boiling Point:** N/A **Melting Point:** N/A Flash Point: N/A Autoignition Temperature: N/A Density: N/A Molecular Weight: N/A

### Section 10: STABILITY AND REACTIVITY

Reactivity: N/A

Chemical Stability: Stable under recommended storage conditions

Incompatible Conditions: Oxidizing agents, Acids

Hazardous Decomposition Products: Arsenic oxides, Selenium dioxide

#### Section 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes: May cause irritation
Skin: May cause irritation

 Ingestion:
 Toxic

 Inhalation:
 Toxic

 Chronic:
 N/A

 Signs & Symptoms:
 N/A

Aggravated Medical Conditions: N/A

**Median Lethal Dose:** 6700 mg/kg for rat by mouth

Carcinogen: Arsenic:

EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a casual association between exposure and

cancer.

IARC-1: Carcinogenic to humans: sufficient evidence of

carcinogenicity

ACGIH A1: Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical

evidence in, exposed humans. Carcinogen as defined by OSHA

NTP-K: Known to be carcinogenic: sufficient evidence from

human studies

Additional information: To the best of our knowledge the acute and chronic toxicity of this

substance is not fully known.

### Section 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: Low Persistence Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A

#### Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, national, and international regulations

#### Section 14: TRANSPORT INFORMATION

**Hazardous:** Hazardous for transportation



Hazard Class: 6.1 Toxic substances

Packing Group:

UN Number: UN1558

Proper Shipping Name: Arsenic compounds, solid, n.o.s. inorganic (Arsenic Selenium Silicon)

Section 15: REGULATORY INFORMATION

Sec 302 Extremely Hazardous: No

Sec 304 Reportable Quantities: N/A

Sec 313 Toxic Chemicals: Yes

### Section 16: OTHER INFORMATION

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.