

**GOLD ZINC**  
**SAFETY DATA SHEET**  
**DATE OF LAST REVISION: 07/10/2015**

**Section 1: Identification**

**Product Name:** Gold Zinc

**Company:** Angstrom Sciences, Inc.  
40 South Linden Street  
Duquesne, PA 15110

For more information call: 412-469-8466

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

**Section 2: HAZARD IDENTIFICATION**

**Signal Word:** None

**Hazard Statements:** None

**Precautionary Statements:** None

**HMIS Health Ratings (0-4):**

Health: 0

Flammability: 1

Physical: 0

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

**Chemical characterization:** Metal Alloy

**Additional Names:** None

**Gold (Au)**

**CAS# Description:** 7440-57-5

**Percentage:** 0-100 wt%

**EC #:** 231-165-9

**Zinc (Zn)**

**CAS# Description:** 7440-66-6

**Percentage:** 0-100 wt%

**EC #:** 231-175-3

**Section 4: FIRST AID MEASURES**

**General Treatment:** Seek medical attention if symptoms persist.

**Special Treatment:** None

**Important Symptoms:** None

**Eye Contact:** Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

**Skin Contact:** Wash affected area with mild soap and water. Remove any contaminated clothing.

**GOLD ZINC  
SAFETY DATA SHEET**

**Inhalation:** Remove to fresh air. If required, give artificial respiration. Seek medical advice.

**Ingestion:** Seek medical attention

**Section 5: FIRE FIGHTING MEASURES**

**Suitable extinguishing Media:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Flammability:** Non-flammable

**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:** 2 mg/m<sup>3</sup> as Sn, long term value

**Threshold Limit Value:** 2 mg/m<sup>3</sup> as Sn, long term value

**Special Equipment:** None

**Respiratory Protection:** Dust Respirator.

**Protective Gloves:** 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

**GOLD ZINC  
SAFETY DATA SHEET**

**Color:** Gold colored  
**Odor:** Odorless  
**Water Solubility:** Insoluble  
**Boiling Point:** N/A  
**Melting Point:** 420 - 1064°C  
**Flash Point:** N/A  
**Autoignition Temperature:** N/A  
**Density:** N/A  
**Molecular Weight:** N/A

**Section 10: STABILITY AND REACTIVITY**

**Reactivity:** Ammonia, Halogens, Hydrogen peroxide, Oxidizing agents  
**Chemical Stability:** Stable under recommended storage conditions  
**Incompatible Conditions:** None  
**Hazardous Decomposition Products:** Metal oxide fume

**Section 11: TOXICOLOGICAL INFORMATION**

**Potential Health Effects:**

**Eyes:** May cause irritation

**Skin:** May cause irritation

**Ingestion:** May cause irritation

**Inhalation:** May cause irritation

**Chronic:** Gold compounds may cause irritation to the eyes and respiratory tract. Aplastic anemia may result from damage to the blood forming organs. Gold has caused tumors and reproductive effects in laboratory animals via implant, intraperitoneal and subcutaneous routes.

Zinc containing fumes may cause metal fume fever. Effects include dry throat, metallic taste, chest pain, dyspnea, rales, and dry cough. Several hours later, chills may occur with lassitude, malaise, fatigue, headache, back pain, Muscle cramps, blurred vision, nausea, fever, perspiration, vomiting and leukocytosis.

**Signs & Symptoms:** N/A  
**Aggravated Medical Conditions:** N/A  
**Median Lethal Dose:** N/A  
**Carcinogen:** N/A

**Section 12: ECOLOGICAL INFORMATION**

**Aquatic Toxicity:** Low

**Persistence Bioaccumulation Toxicity:** No

**Very Persistent, Very Bioaccumulative:** No

**GOLD ZINC**  
**SAFETY DATA SHEET**

**Notes:** N/A

**Section 13: DISPOSAL CONSIDERATIONS**

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

**Section 14: TRANSPORT INFORMATION**

**Hazardous:** Not hazardous for transportation  
**Hazard Class:** N/A  
**Packing Group:** N/A  
**UN Number:** N/A  
**Proper Shipping Name:** N/A

**Section 15: REGULATORY INFORMATION**

**Sec 302 Extremely Hazardous:** No  
**Sec 304 Reportable Quantities:** N/A  
**Sec 313 Toxic Chemicals:** No

**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.