

SILVER
SAFETY DATA SHEET
DATE OF LAST REVISION: 01/01/15

Section 1: Identification

Product Name: Silver
CAS Number: 7440-22-45 / **EC Number:** 231-131-3
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: 0
Physical: 0

Section 3: Composition/Information on Ingredients

Chemical characterization: Metal
Additional Names: None
CAS# Description: 7440-22-4
Percentage: 100 wt%
EC number: 231-131-3

Section 4: FIRST AID MEASURES

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None

Important Symptoms: None

Skin Contact: Skin cuts and abrasions can be treated by standard first aid. Skin contamination with dust or powder can be removed with soap and water. Seek medical attention if symptoms persist.

Inhalation: Breathing difficult, caused by inhalation of dust or fume requires removal to fresh air. Seek medical attention if required.

Ingestion: Seek medical attention

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Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing Media: No special restrictions - Use suitable extinguishing agent for surrounding material and type of fire.

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: N/A

Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection: Dust Respirator.

Protective Gloves: Nitrile rubber, NBR 0.11 mm thick

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: | Solid |
| Color: | Silver grey |
| Odor: | Odorless |
| Water Solubility: | Insoluble |
| Boiling Point: | 3632° |

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Melting Point: 1761°F
Flash Point: N/A
Autoignition Temperature: N/A
Density: 10.5 g/cm³
Atomic Weight: 108.86

Section 10: STABILITY AND REACTIVITY

Reactivity: N/A
Chemical Stability: Stable under recommended storage conditions
Incompatible Conditions: Strong acids, oxidizing materials, Halogens, Ammonia, Acetylene
Hazardous Decomposition Products: Toxic metal fumes

Section 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes: N/A

Skin: N/A

Ingestion: N/A

Inhalation: N/A

Chronic: N/A

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

Section 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: Acute

Persistence Bioaccumulation Toxicity: The form it is found in depends on environmental conditions. Silver levels of less than 0.000001 mg silver per cubic meter of air (mg/m³), 0.2-2.0 parts silver per billion parts water (ppb) in surface waters, such as lakes and river, and 0.20-0.30 parts silver per million parts soil (ppm) in soils are found from naturally occurring sources. Silver compounds are also found in groundwater and at hazardous waste sites throughout the United States. Drinking water supplies in the United States have been found to contain silver levels of up to 80 ppb. Surveys show that one-tenth to one-third of samples taken from drinking water supplies (both groundwater and surface water) contain silver at levels greater than 30 ppb.

Very Persistent, Very Bioaccumulative: N/A

Notes: N/A

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Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

Hazardous: Not regulated
Hazard Class: Not regulated
Packing Group: Not regulated
UN Number: Not regulated
Proper Shipping Name: Not regulated

Section 15: REGULATORY INFORMATION

Sec 302 Extremely Hazardous: N/A
Sec 304 Reportable Quantities: N/A
Sec 313 Toxic Chemicals: N/A

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.