

## Silver SAFETY DATA SHEET

# Silver

### 1 PRODUCT AND SUPPLIER IDENTIFICATION

**Product Name:** Silver - shot, sheet, foil, rod, wire, pellets, target

**Formula:** Ag

**Supplier:** Eagle Alloys Corporation  
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Talbott, TN 37877

**Telephone:** 423-586-8738

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**24 HOUR EMERGENCY ASSISTANCE:** CHEMTREC 800-424-9300

Recommended Uses: Scientific Research

### 2 HAZARDS IDENTIFICATION

**GHS Classification (29 CFR 1910.1200):** Not classified as hazardous

**GHS Label Elements:**

**Signal Word:** N/A

**Hazard Statements:** N/A

**Precautionary Statements:** N/A

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

**Ingredient:** Silver

**CAS#:** 7440-22-4

**%:** 100

**EC#:** 231-131-3

### 4 FIRST AID MEASURES

**General Measures:** No special requirements.

**INHALATION:** Remove to fresh air, keep warm and quiet, give oxygen if breathing is difficult. Seek medical attention.

**INGESTION:** Rinse mouth with water. Do not induce vomiting. Seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

**SKIN:** Remove contaminated clothing, brush material off skin, wash affected area with soap and water. Seek medical attention if symptoms persist.

**EYES:** Flush eyes with lukewarm water, including under upper and lower eyelids, for at least 15 minutes. Seek medical attention if symptoms persist.

**Most Important Symptoms/Effects, Acute and Delayed:** May cause irritation. See section 11 for more information.

**Indication of Immediate Medical Attention and Special Treatment:** No other relevant information available.

### 5 FIREFIGHTING MEASURES

**Extinguishing Media:** Use suitable extinguishing agent for surrounding materials and type of fire.

**Unsuitable Extinguishing Media:** No information available.

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**Specific Hazards Arising from the Material:** May emit silver oxide fumes under fire conditions.

**Special Protective Equipment and Precautions for Firefighters:** Full face, self-contained breathing apparatus and full protective clothing when necessary.

### 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Wear appropriate respiratory and protective equipment specified in section 8.

**Methods and Materials for Containment and Cleaning Up:** Sweep or scoop up. Place in properly labeled closed containers. Scrap can be collected for recycling.

**Environmental Precautions:** Do not allow to enter drains or to be released to the environment.

### 7 HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid creating dust. Avoid contact with skin and eyes. Do not breathe dust or fumes. Provide adequate ventilation if dusts are created. See section 8 for information on personal protection equipment.

**Conditions for Safe Storage:** Store in a sealed container. Store in a cool, dry area. See section 10 for more information on incompatible materials.

### 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Limits:** Silver

**OSHA/PEL:** 0.01 mg/m<sup>3</sup>

**ACGIH/TLV:** 0.1 mg/m<sup>3</sup>

**Engineering Controls:** Ensure adequate ventilation to maintain exposures below occupational limits. Whenever possible the use of local exhaust ventilation or other engineering controls is the preferred method of controlling exposure to airborne dust and fume to meet established occupational exposure limits. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

**Respiratory Protection:** If permissible levels are exceeded, use NIOSH approved dust respirator.

**Eye Protection:** Safety glasses

**Skin Protection:** Wear impermeable gloves, protective work clothing as necessary.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

**Form:** Solid in various forms

**Color:** Silver metallic

**Odor:** Odorless

**Odor Threshold:** Not determined

**pH:** N/A

**Melting Point:** 961.93 °C

**Boiling Point:** 2212 °C

**Flash Point:** N/A

**Evaporation Rate:** N/A

**Flammability:** N/A

**Upper Flammable Limit:** N/A

**Lower Flammable Limit:** N/A

**Vapor Pressure:** No data

**Vapor Density:** N/A

**Relative Density (Specific Gravity):** 10.5 g/cc @ 20 °C

**Solubility in H<sub>2</sub>O:** Insoluble

**Partition Coefficient (n-octanol/water):** Not determined

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**Autoignition Temperature:** No data  
**Decomposition Temperature:** No data  
**Viscosity:** N/A

### 10 STABILITY AND REACTIVITY

**Reactivity:** No data  
**Chemical Stability:** Stable under recommended storage conditions.  
**Possibility of Hazardous Reactions:** None expected.  
**Conditions to Avoid:** No data  
**Incompatible Materials:** Acids, halogens, sulfur.  
**Hazardous Decomposition Products:** Silver oxide fume.

### 11 TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Inhalation, skin, eyes.  
**Symptoms of Exposure:** May cause irritation.  
**Acute and Chronic Effects:** Silver metal is relatively inert. Chronic exposure to soluble silver compounds may cause a permanent bluish-gray discoloration of the skin and eyes known as argyria.  
**Acute Toxicity:** No data  
**Carcinogenicity:** **NTP:** Not identified as carcinogenic **IARC:** Not identified as carcinogenic  
To the best of our knowledge the chemical, physical and toxicological characteristics of the substance are not fully known.

### 12 ECOLOGICAL INFORMATION

**Ecotoxicity:** No data  
**Persistence and Degradability:** No data  
**Bioaccumulative Potential:** No data  
**Mobility in Soil:** No data  
**Other Adverse Effects:** No further relevant information available.

### 13 DISPOSAL CONSIDERATIONS

**Waste Disposal Method:**  
**Product:** Dispose of in accordance with Federal, State and Local regulations.  
**Packaging:** Dispose of in accordance with Federal, State and Local regulations.

### 14 TRANSPORT INFORMATION

**Shipping Regulations:** Not regulated  
**UN Number:** N/A  
**UN Proper Shipping Name:** N/A  
**Transport Hazard Class:** N/A  
**Packing Group:** N/A  
**Marine Pollutant:** No

### 15 REGULATORY INFORMATION

**TSCA Listed:** All components are listed.  
**Regulation (EC) No 1272/2008 (CLP):** N/A  
**Canada WHMIS Classification (CPR, SOR/88-66):** N/A  
**HMIS Ratings: Health: 0 Flammability: 0 Physical: 0**  
**NFPA Ratings: Health: 0 Flammability: 0 Instability: 0**

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**Chemical Safety Assessment:** A chemical safety assessment has not been carried out.

### **16 OTHER INFORMATION**

The information contained in this document is based on the state of our knowledge at the time of publication and is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Eagle Alloys Corporation makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information. Eagle Alloys Corporation shall not be held liable for any damages resulting from handling or from contact with the above product. Users should satisfy themselves that they have all current data relevant to their particular use.

**Prepared by:** Eagle Alloys Corporation  
**Revised/Reviewed:** November 2015

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