

Safety Data Sheet

29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Silver sulfide

Product Code: 9026

CAS #: 21548-73-2

Company: Colonial Metals, Inc.
 Building 20
 505 Blue Ball Road
 Elkton, MD 21921 United States
 Company Contact: EHS Director
 Telephone Number: 410-398-7200
 FAX Number: 410-398-2918
 E-Mail : info@colonialmetals.com
 Web Site: www.colonialmetals.com



www.colonialmetals.com

Emergency Response: Supplier Emergency Contacts & Phone Number
 Chemtrec: 800-424-9300
 World Wide - Call COLLECT to U.S: 703-527-3887

Section 2: Hazards Identification

GHS07

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Hazard Pictograms:



Signal Word: Warning

Hazard Category: Sensitization, resp. Cat 1
 Sensitization, skin Cat 1
 Serious eye damage/eye irritation Cat 3
 Acute tox, oral Cat 5

Hazard Statements: H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H317: May cause an allergic skin reaction
 H320: Causes eye irritation
 H303: May be harmful if swallowed

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapours/spray
 P264: Wash thoroughly after handling
 P270: Do not eat, drink or smoke when using this product
 P271: Use only outdoors or in a well-ventilated area
 P272: Contaminated work clothing should not be allowed out of the workplace
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P284: Wear respiratory protection

Hazards not otherwise classified: **Chronic/Carcinogenicity Effects:**
 Long term exposure to silver and silver salts can lead to the condition known as argyria-a general gray pigmentation of the skin and mucous membranes.

Conditions Aggravated By Exposure:

May cause argyria (a slate-gray or bluish discoloration of the skin and deep tissues due to the deposit of insoluble albuminate of silver). May be irritating to skin, eyes and respiratory tract.

Conditions Aggravated By Overexposure:

Prolonged or repeated inhalation, application or ingestion of silver compounds may cause a permanent bluish discoloration of the skin and mucous membranes.

Section 3: Composition / Information on Ingredients

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Silver sulfide	Irritant	21548-73-2	98 - 100
Chemical Family: metal halide Chemical Formula: Ag ₂ S			
Avoid inhalation.			

Section 4: First Aid Measures

General Info: Consult a Physician. Show this safety data sheet to the doctor in attendance.

Notable Exposure symptoms: Irritation to skin, eyes and areas of contact.

If ingested: Rinse mouth. Seek immediate medical attention immediately. Clear the airway and administer artificial respiration if not breathing.

If swallowed, do not induce vomiting unless directed to do so by medical personnel.

If inhaled: Remove the victim from the contaminated area while protecting yourself from exposure by wearing an appropriate respirator. Put a similar respirator on the victim if possible. Get medical attention immediately.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get immediate medical attention.

Skin contact: Flush area for 15 minutes with water and wash with soap and water. Contact a physician immediately. Remove contaminated clothing and shoes and wash before reuse.

Section 5: Fire Fighting Measures

General Info: Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Extinguishing Method / Equipment: Use water spray, carbon dioxide, dry chemical powder, or appropriate foam.

Hazardous Decomposition Info: Can decompose to emit toxic fumes under fire conditions (Sulpher Oxides, Silver Oxides)

Section 6: Accidental Release Measures

Personal precautions, protective equipment and procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate respiratory protective equipment and clothing during clean-up. Avoid breathing dust. Ventilate area if easy to do so, Contact local authorities if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Containment Equipment and Procedures: Large Spills: Contain actively spilling material if safe and easy to do so. Do not let product enter drains. Sweep up and placed in a proper vessel for recovery or disposal. Avoid raising dust. Ventilate and wash spill site after cleanup is complete..

Small Spills: Sweep or soak up and place in sealed container. Taking care to avoid dusting.

Cleanup Procedures: Contain spillage and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations.

Section 7: Handling and Storage

Safe Handling Precautions: Do not handle until all safety precautions have been read and understood. Keep containers tightly closed Ensure adequate ventilation. Avoid creating and breathing dust/vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment and wash thoroughly after handling. Keep away from ignition sources.

Recommendations for Storage: Store in cool, dry area in a tightly closed product container under inert gas away from sources of ignition or flame. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Incompatibilities: Light Sensitive, Strong oxidizing agents

Section 8: Exposure Control / Personal Protection

General / Engineering Ventilation: Local Exhaust: Required in handling area**Controls:** Mechanical: Desirable to insure concentration of material below TLV/TWA levels
Other: Closed Ventilation system - Dust (Laboratory Fume Hood)**Work Clothing:** Protective work clothing which covers skin and prevents exposures.**Eye/face protection:** Wear safety glasses with side shields or goggles or face shield.**Skin Protection:** Wear chemical resistant gloves.**Respiratory Protection:** NIOSH approved chemical cartridge respirator for particulates and dust or self-contained breathing apparatus with full face shield.**Additional Information:** Observe good chemical hygiene practices. Do not smoke or eat while using this product. Wash hands or exposed skin after using the product.**Section 9: Physical and Chemical Properties**

State: Powder **Melting Point:** 1553 °F 845 °C **Freezing Point:** N/A**Color:** grey **Boiling Point/Range:** N/A **pH:** N/A**Molecular Wt.:** 247.8 g/mol **Odor:** None **Water Solubility:** Partly Soluble**Specific Gravity:** N/A **Flash Point:** N/A **Part. Coeff (n-octanol/water):** N/A**Upper Flam Limits:** N/A **Lower Flam Limits:** N/A **Vapor Density:** N/A**VOC Content (lbs/gal):** N/A **Viscosity:** N/A **Autoignition Temp:** N/A**Section 10: Stability and Reactivity**

General: This product is stable and non-reactive under normal conditions of use. Product is not subject to hazardous polymerization. Avoid open flame and ignition sources.**Stability:** Stable**Conditions to Avoid:** Exposure to light, and moisture**Incompatible materials:** Strong oxidizing agents**Decomposition products:** Sulfur oxides, silver/silver oxides.**Section 11: Toxicological Information**

General Information: To the best of our knowledge the chemical, physical, and toxicological effects of this compound have not been thoroughly investigated.**Toxicological Information (product):** No Data Available**Likely Routes of Exposure:** Eye Contact
Skin Contact
Inhalation
Ingestion - possible, but considered unlikely.**Toxicological Information (contained substances)****Carcinogenicity or mutagenicity:** To the best of our knowledge the chemical, physical, and toxicological effects of this compound have not been thoroughly investigated.**Sensitization:** Product is not expected to be a sensitizer.**Other Notes:** None

Section 12: Ecological Information

General information: no Data Available

Aquatic toxicity: Acute Toxicity - No data Available

Degradation / Mobility info: No specific data available.

Bioaccumulative potential: No specific data available.

Section 13: Disposal Information

Product disposal: Place in a sealed container. Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation
NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate.

Container disposal: Treat empty containers with extra care. Consult waste contractor.

Other considerations: No further information.

Section 14: Transport Information

DOT: Proper Shipping Name:

Not Dangerous Goods

Hazard Class:

Not Dangerous Goods

DOT Identification Number:

Not Dangerous Goods

DOT Shipping Label:

Not Dangerous

Packaging Requirements:

Not dangerous goods

IMO/IMDG: No data available

IATA: Not dangerous goods

Comments: None

Section 15: Regulatory Information

TSCA: This product is TSCA listed.

SARA: SARA Hazard Classes:

Acute Health Hazard

SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

SARA Section 313 Notification:

CAS# 21548-73-2

Canadian DSL: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

European Union (EU) Symbol of Danger: Xi

Regulatory Indication of Danger: Irritant

Information: R: 36/37/38

Risk of Statements: Irritating to eyes, respiratory system, and skin

S: 26 36

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing.

R50 - Very toxic to aquatic organisms

Section 16: Other Information

NFPA Rating

Health: 0
Fire: 0
Reactivity: 0

HMIS Rating

Health: 0
Fire: 0
Reactivity: 0
Personal
Protection: J

Precautionary Label

Irritant

Disclaimer: In compliance with the OSHA Hazard communication Standard, 2.9 C.F.R 1910.1200, we are providing you with a Materials Safety Data Sheet (MSDS) for the hazardous material you are purchasing.

It is your responsibility to educate your employees on the safe use of the hazardous material. With this in mind, a copy should be forwarded to the supervisor of the user or to the user themselves, and copy should be retained in your files for future reference.

Colonial Metals, Inc. makes no presentation as to the accuracy of the information in the MSDS. The information is believe to be correct; however, you (the customer), should preform your own investigation and independent verification. If you resell the product, you are responsible to forward the information in the MSDS to your customer.

Colonial Metals, Inc.

SDS Author: Dr. Ernest Addo

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