

MATERIAL SAFETY DATA SHEET

Manufacturer: Strem Chemicals, Inc
7 Mulliken Way
Newburyport, MA 01950-4098 U.S.A.
www.strem.com

Strem Customer Service (978) 499-1600
CHEMTREC (Emergency Only) (800) 424-9300
Poison Center (800) 562-8236

Section 1: Product Identification

Chemical Name: Silver chloride (99.9%-Ag)
Product Number: 93-4707
CAS Registry Number: 7783-90-6
Formula: AgCl
EINECS Number: 232-033-3
Chemical Family: metal halide
Synonym: Argentous chloride

Section 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	7783-90-6	100%	0.1mg/m3 (as Ag)	0.1mg/m3 (as Ag)

Section 3: Hazards Identification

Emergency Overview: No particular hazard associated with this material. May be irritating to skin, eyes and respiratory tract.
Primary Routes of Exposure: Ingestion, inhalation
Eye Contact: May cause slight to mild irritation of the eyes.
Skin Contact: May cause slight to mild irritation of the skin.
Inhalation: May be irritating to the nose, mucous membranes and respiratory tract.
Ingestion: No specific information is available on the physiological effects of ingestion.
Acute Health Affects: May be irritating to skin, eyes and respiratory tract.
Chronic Health Affects: 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.
NTP: No
IARC: No
OSHA: No

SECTION 4: First Aid Measures

Eye Exposure: Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.
Skin Exposure: Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
Inhalation: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
Ingestion: Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

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SECTION 5: Fire Fighting Measures

Flash Point: not applicable
Autoignition Temperature: none
Explosion Limits: none
Extinguishing Medium: none required
Special Fire Fighting Procedures: If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self- contained breathing apparatus and full protective clothing.
Hazardous Combustion and Decomposition Products: none
Unusual Fire or Explosion Hazards: No unusual fire or explosion hazards.

SECTION 6: Accidental Release Measures

Spill and Leak Procedures: To avoid raising dust, small spills may be mixed with diatomaceous earth, sand, vermiculite, or other suitable inert material and swept up.

SECTION 7: Handling and Storage

Handling and Storage: Store solid in a tightly sealed container away from light.

SECTION 8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection: Wear protective clothing and gloves.
Ventilation: Material may form a fine dust. If possible, handle the material in an efficient fume hood.
Respirator: If ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.
Ventilation: Material may form a fine dust. If possible, handle the material in an efficient fume hood.
Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form: white powdr.
Molecular Weight: 143.32
Melting Point: 455°C
Boiling Point: 1550°C
Vapor Pressure: no data
Specific Gravity: 5.56
Odor: none
Solubility in Water: insoluble

SECTION 10: Stability and Reactivity

Stability: light sensitive
Hazardous Polymerization: no hazardous polymerization
Conditions to Avoid: exposure to light
Incompatibility: oxidizing agents, ammonia, azides and fulminates
Decomposition Products: none

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SECTION 11: Toxicological Information

RTECS Data: Oral (mouse); LD: >10 gm/kg. Oral (guinea pig); LD: >5 gm/kg.
Carcinogenic Effects: No data
Mutagenic Effects: No data
Tetratogenic Effects: No data

SECTION 12: Ecological Information

Ecological Information: No information available

SECTION 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name (CFR): Non-hazardous
Hazard Class (CFR): NA
Additional Hazard Class (CFR): NA
Packaging Group (CFR): NA
UN ID Number (CFR): NA
Shipping Name (IATA): Non-hazardous
Hazard Class (IATA): NA
Additional Hazard Class (IATA): NA
Packaging Group (IATA): NA
UN ID Number (IATA): NA

SECTION 15: Regulatory Information

TSCA: Listed in the TSCA inventory.
SARA (Title 313): Title compound: See category N740 for reporting.
Second Ingredient: None
Third Ingredient: None

SECTION 16: Other Information

Disclaimer: The information herein is believed to be accurate and reliable as of the date compiled. However, Strem Chemicals, Inc. 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.
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