

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Silver chloride
CAS #: 7783-90-6
FORMULA: AgCl
SYNONYM: Argentous chloride

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	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.

CHRONIC HEALTH 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.

ACUTE HEALTH EFFECTS: May be irritating to skin, eyes and respiratory tract.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash 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 assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable
AUTO IGNITION TEMPERATURE: none
EXPLOSION LIMITS: none
EXTINGUISHING MEDIUM: none required
SPECIAL FIREFIGHTING PROCEDURES: If 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 material in a tightly sealed container away from light

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.
SKIN PROTECTION: Chemical-resistant.
VENTILATION: If possible, handle the material in an efficient fume hood.
RESPIRATOR: If in form of fine dust and 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 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: white powder
MOLECULAR WEIGHT: 143.32
MELTING POINT (DEG. C.): none
BOILING POINT: 1550°C
VAPOR PRESSURE: no data
SPECIFIC GRAVITY: 5.56
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

SECTION 11 Toxicological Information

RTECS DATA: Oral (mouse); LD: >10 gm/kg. Oral (guinea pig); LD: >5 gm/kg.

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

CARCINOGENIC EFFECTS: no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Non-hazardous

Non-hazardous

SECTION 15 Regulatory Information

TSCA: Listed in the TSCA inventory

SARA (TITLE 313): Title compound : See category N740 for reporting.

SECTION 16 Other Information

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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