

MATERIAL SAFETY DATA SHEET

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

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SECTION 1 Product Identification

CHEMICAL NAME: Chloroauric Acid
CAS #: 13453-07 -1
FORMULA: AuCl₃
SYNONYM: Auric trichloride

SECTION 2 Composition and Information on Ingredients

INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	13453-07 -1	100	no data	no data

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Material hydrolyzes in contact with moisture releasing corrosive hydrogen chloride fumes. Exposure to gold compounds may damage kidney function and reduce blood cell count.

PRIMARY ROUTES OF EXPOSURE: Ingestion, inhalation, skin, eyes

EYE CONTACT: May be a severe irritant to the eyes.

SKIN CONTACT: May cause severe irritation of the skin.

INHALATION: Inhalation of choking fumes Dust may result in severe irritation of the respiratory tract, chemical pneumonitis and pulmonary edema.

INGESTION: May cause burns to the gastrointestinal system. Gold compounds may lead to dermatitis, metallic taste, and convulsions.

CHRONIC HEALTH EFFECTS: Prolonged exposure to gold compounds may lead to reduced red and white blood cell generation.

ACUTE HEALTH EFFECTS: Gold compounds may cause irritation to the eyes and respiratory tract, impairment of kidney and bone marrow function, abdominal cramps, vomiting, bloody diarrhea, weakness, and convulsions.

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: If involved in a fire this material may emit toxic chlorine and hydrochloric acid fumes.

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 moisture. If possible, handle in an efficient fume hood. Prolonged exposure to the atmosphere may lead to degradation of the product.

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: maroon xtl.

MOLECULAR WEIGHT: 303.33

MELTING POINT (DEG. C.): none

BOILING POINT: no data

VAPOR PRESSURE: not applicable

SPECIFIC GRAVITY: no data

SOLUBILITY IN WATER: very soluble

SECTION 10 Stability and Reactivity

STABILITY: moisture sensitive

HAZARDOUS POLYMERIZATION: no hazardous polymerization
CONDITIONS TO AVOID: contact with moisture
INCOMPATIBILITY: water, alcohols, strong bases, and active metals.
DECOMPOSITION PRODUCTS: with moisture: hydrogen chloride, chlorine, and gold and gold (I) chloride.

SECTION 11 Toxicological Information

RTECS DATA: Subcutaneous (rat); TDLo: 22106 ug/kg. Intratesticular (rat); TDLo: 5527 ug/kg. Subcutaneous (mouse); TDLo: 2210 ug/kg. Human Lymphocyte: Unscheduled DNA synthesis: 6 mg/L.
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 not listed

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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