



SECTION 1: Product Identification

Chemical Name:	Hydrogen tetrachloroaurate (III) hydrate (99.9985%-Au) (49%Au) PURATREM
Product Number:	603
CAS Registry Number:	16903-35-8
Formula:	HAuCl ₄ .XH ₂ O
EINECS Number:	240-948-4
Chemical Family:	metal acid halide
Synonym:	Tetrachloroauric acid, Chlorauric acid, Auric acid

SECTION 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	16903-35-8	100	no data	no data

SECTION 3: Hazards Identification

Emergency Overview:	Strongly acidic corrosive material. Causes sensitization by skin contact. Exposure to gold compounds may damage kidney function and reduce blood cell count.
Primary Routes of Exposure:	Ingestion, inhalation, skin, eyes
Eye Contact:	Corrosive to the eyes.
Skin Contact:	Causes burning of the skin with redness, pain, itching, pimples, boils, hives and blisters.
Inhalation:	Forms hydrochloric acid in the presence of moisture. Inhalation of vapors will lead to burning of the respiratory tract.
Ingestion:	Causes burns to the gastrointestinal system. Gold compounds may lead to dermatitis, metallic taste, and convulsions.
Acute Health Effects:	Corrosive to skin, eyes and respiratory tract. Causes impairment of kidney and bone marrow function, abdominal cramps, vomiting, bloody diarrhea, weakness and convulsions.
Chronic Health Effects:	Prolonged exposure to gold compounds may lead to reduced red and white blood cell generation.



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.
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:	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 in a cool, dry place in a tightly sealed container.
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 gloves and clothing.
Ventilation:	Material may form a fine dust. 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.
Additional Protection:	No additional protection required.
SECTION 9: Physical and Chemical Properties	
Color and Form:	yellow to orange xtl
Molecular Weight:	339.79
Melting Point:	no data
Boiling Point:	no data
Vapor Pressure:	not applicable
Specific Gravity:	no data
Odor:	none
Solubility in Water:	very soluble
SECTION 10: Stability and Reactivity	
Stability:	light sensitive, hygroscopic (store cold)
Hazardous Polymerization:	no hazardous polymerization
Conditions to Avoid:	contact with moisture and light



Incompatibility:	active metals and strong bases
Decomposition Products:	hydrogen chloride, chlorine, and gold salts
SECTION 11: Toxicological Information	
RTECS Data:	Sex chromosome loss and nondisjunction (yeast-saccharomyces cerevisiae); 5 umol/L
Carcinogenic Effects:	No data
Mutagenic Effects:	mutagen
Teratogenic 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):	Corrosive solids, N.O.S.
Hazard Class (CFR):	8
Additional Hazard Class (CFR):	NA
Packaging Group (CFR):	II
UN ID Number (CFR):	UN# 1759
Shipping Name (IATA):	Corrosive solids, N.O.S.
Hazard Class (IATA):	8
Additional Hazard Class (IATA):	NA
Packaging Group	II



(IATA):

UN ID Number

UN# 1759

(IATA):

SECTION 15: Regulatory Information

TSCA:

Listed in the TSCA inventory.

SARA (Title 313):

Title compound not listed.

Second Ingredient:

None

Third Ingredient:

None