SECTION 1: Product Identification

Chemical Name: Gold (III) chloride, 99% (99.9%-Au)

Product Number: 602

CAS Registry

3453-07-1

Number:

'

Formula:

AuCl3

EINECS Number:

231-623-1

Chemical Family:

metal halide

Synonym:

Auric trichloride

SECTION 2: Composition and Information on Ingradients

Ingredient CAS Number Percent ACGIH (TWA) OSHA (PEL)

Title Compound 13453-07-1 100 no data no data

SECTION 3: Hazards Identification

Emergency Overview: Irritating to skin, eyes and respiratory tract. Exposure to gold compounds may

damage kidney function and reduce blood cell count.

Primary Routes of

Exposure:

Ingestion, inhalation, skin, eyes

Eye Contact: Causes severe irritation to the eyes.

Skin Contact: Causes severe irritation of the skin.

Inhalation: Inhalation of choking fumes results in severe irritation of the respiratory tract,

criemical pneumonitis and pulmonary edema.

May cause burns to the gastrointestinal system. Gold compounds may lead to Ingestion:

dermatitis, metallic taste, and convulsions.

Irritating to skin, eyes and respiratory tract. May cause impairment of kidney and

Acute Hearth Effects: bone marrow function, abdominal cramps, vomiting, broody diarrhea, weakness,

and convulsions.

Chronic Realth Prolonged exposure to gold compounds may lead to reduced red and white blood

Effects. cell generation.

NTP: No

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IARC: No

OSHA: Nο

Eye Exposure:

Inhalation

SECTION 4: First Aid Measures

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.

Wash the affected area with water. Remove contamnated clothes if necessary. Skin Exposur

Seek medical assistance if irritation persists

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.

Seek medical attention immediately. Keep the victim calm. Give the victim water ingestion:

(only if conscious). Induce vorning only if directed by medical personnel.

SECTION 5: Fire Fighting Measures

Flash Point: not applicable

Autoignition

none Temperature:

Explosion Limits: none

Extinguishing Medium: none require

Special Fire Fighting

Procedures:

If this product is involved in a fire, fire fighters should be equipped with a NOSH approved positive pressure self- contained breathing apparatus and iu!! protective

clothing.

Hazardous

Combustion and

Decomposion

If involved in a fire this material may emit toxic chlorine and involved local

fumes.

Products:

Unusual Fire of

No unusual fire or explosion hazards.

Explosion Hazards:

SECTION 6: Accidental Release Measures

Spill and Leak To avoid raising dust, small spills may be mixed with diatomaceous earth, sand,

Procedures: vermiculite, or other suitable inert material and swept up.

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SECTION 7: Handling and Storage

Store material in a tightly sealed bottle away from moisture. If possible, handle in Handling and

an efficient fume hood. Prolonged exposure to the atmosphere may lead to Storage:

degradation of the product.

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 appropriate chemical resistant gloves and protective clothing.

Material may form a fine dust. If possible handle the material in an efficient fume Ventilation:

hood.

If ventilation is not available a respirator should be worn. The use of respirators

espirator: 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: maroon xtl.

Molecular Weight: 303.33

Melting Point: 254°C dec.

Boiling Point: no data

Vapor Pressure: not applicable

Specific Gravity:

Odor: none

Solubility in Water: very soluble

SECTION 10: Stability and Reactivity

Stability: / o moisture sensitive, light sensitive

Hazardous

no hazardous polymerization Polymerization:

Conditions to Avoid: prolonged exposure to moisture and light sources

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Incompatibility: water, alcohols, strong bases, and active metals.

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Decomposition

RTECS Data:

with moisture: hydrogen chloride, chlorine, and gold and gold (I) chloride.

Products:

SECTION 11: Toxicological Information

Subcutaneous (rat); TDLo: 22106 ug/kg. Intratesticular (rat) TDLo: 5527 ug/kg.

Subcutaneous (mouse); TDLo: 22106 ug/kg. Human Lymphocyte: Unscheduled

DNA synthesis: 6 mg/L.

Carcinogenic Effects: No data

Mutagenic Effecta: Insufficient data

Tetratogenic Effects: Insufficient data

SECTION 12: Ecological Information

Ecological

No information available information:

SECTION 13: Disposal Considerations

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

SECTION 14: Transportation

Shipping Name

Non-hazardous

(CFR):

Hazard Class (CFR): NA

Additional Hazard

NA

Class (CFR):

Packaging Group

(CFR):

INY.

UN ID Number (CFF.):

NA

Shipping Name

Non-hazardous

(IATA):

Hazard Class (IATA): NA

Additional rlazard

NA

Class (IATA):

Packaging Group

(IATA):

NA

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UN ID Number (IATA):	NA &	
SECTION 15: Regul	ato (Vinformation	
TSCA:	Listed in the TSCA inventory.	
SARA (Title 313):	Title compound not listed.	
Second Ingredient:	None & & & & & & & & & & & & & & & & & & &	
Third Ingredient:	None	



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