

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet

Gold chloride

1. Product and	Company 1	Identification
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Trade Name: Gold chloride

Chemical Formula: AuCl₃ (structurally Au₂Cl₆)

Recommended Use: Scientific research and development

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shannxi
Zip Code: 710077
Country: China

Tel#: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Warning



Hazard Statements: H314: Causes severe skin burns and eye damage

Precautionary Statements: P260: Do not breathe dust/fume/vapor

P301+P361+P353: If swallowed: rinse mouth. Do not induce vomiting.

P303+P361+P353: If on skin or hair: take off immediately all

contaminated clothing. Rinse skin with water.

P305+P351+P338: If in eyes: Rinse cautiously with water for several

minutes. Remove contact lenses if easy to do. P390: Absorb spillage to prevent material damage

P406: Store in a corrosive resistant container with a resistant inner liner

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 1

3. Composition

Chemical Family: Sal

Additional Names: Gold(III) chloride, Auric chloride, Gold trichloride

Gold chloride (AuCl₃):

Percentage: 100 wt% CAS #: 13453-07-1 EC #: 236-623-1

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None **Important Symptoms:** None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Ingestion: Seek medical attention. Skin: Wash affected area with mild soap and water. Remove any contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Flammability: Non-flammable Extinguishing Media: No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure: clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. **Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage Handling Conditions: Wash thoroughly after handling. **Storage Conditions:** Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10. Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit. 8. Exposure Controls and Personal Protection Permissible Exposure Limits: None Threshold Limit Value: None

Special Equipment: None

Respiratory Protection: **Dust Respirator** Protective Gloves: Rubber gloves

Eve Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics		
Gold to yellow when hydrated		
Powder, Granules, Pellets, Sputtering target, Custom parts		
Odorless		
6800 g/ml		
180 °C		
sublimes		
N/A		
N/A		
3.8 g/cc		
303.325 g/mol		
10. Reactivity		
Stable under recommended storage conditions		
Bases, Oxidizing agents, Water, Light		
Moisture, Light		
Metal oxide fume, Hydrogen chloride		
11. Toxicological Information		
Causes serious burns		
Causes severe burns		
Strong corrosive effect on mouth and throat; danger of perforation esophagus and stomach		
Causes severe burns		
N/A		
12. Ecological Information		
Moderate		
No		
No		
Do not allow undiluted product or large quantities to reach ground		
water, water course or sewage system.		
Avoid transfer into the environment.		

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 8 Corrosive substances

Packing Group: III UN Number: UN3260

Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (Gold(III) chloride)

Segregation Group: Acids

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: No

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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