

SDS no. RSK76R2D • Version 1.0 • Date of issue: 2024-02-21

## **SECTION 1: Identification**

## **GHS Product identifier**

Product name

GOLD (III) CHLORIDE Trihydrate

### Other means of identification

Gold (III) Chloride Trihydrate AR (tetrachloroauric (III) acid, trihydrate)	GA110
Gold (III) Chloride Trihydrate AR (tetrachloroauric (III) acid, trihydrate)	GA110-1G

## Recommended use of the chemical and restrictions on use

Laboratory chemical

### Supplier's details

Name	ChemSupply Australia Pty Ltd
Address	38-50 Bedford Street
	5013 Gillman South Australia
	Australia
Telephone	08 8440 2000
email	www.chemsupply.com.au
Emergency phone number	

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

## **SECTION 2: Hazard identification**

### General hazard statement

Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following:

Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity.

## Classification of the substance or mixture

## GHS classification in accordance with: UN GHS revision 7

- Serious eye damage/eye irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1B
- Skin sensitizer, Cat. 1

## GHS label elements, including precautionary statements

## **Pictograms**



Signal word	Danger
Hazard statement(s)	
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
Precautionary statement(s)	
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	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 [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/physcian
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to an approved waste disposal facility

# **SECTION 3: Composition/information on ingredients**

### **Mixtures**

Molecular weight: 339.78

Components		
Component	CAS no.	Concentration
Gold (III) chloride trihydrate	16961-25-4	<= 100 % (weight)
CLASSIFICATIONS: Skin corrosion/irritation, Cat. 1B; Skin sensitizer, Cat. 1. HAZARDS: H314 - Causes severe skin burns and eye damage; H317 - May cause an		
allergic skin reaction.		

# **SECTION 4: First-aid measures**

## Description of necessary first-aid measures

General advice	First Aid Facilities: Maintain eyewash fountain and drench facilities in work area.
lf inhaled	Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

If swallowed

Do NOT induce vomiting. Call a physician or poison control center immediately.

### Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically based on judgement of doctor and individual reactions of the patient.

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor.

## **SECTION 5: Fire-fighting measures**

### Suitable extinguishing media

Use fire extinguishing media appropriate for surrounding environment. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

### Specific hazards arising from the chemical

When heated to decomposition it emits toxic fumes.

Material does not burn. Fire or heat will produce irritating, poisonous and/or corrosive gases.

### Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

## **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment listed in Section 8. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

### Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

## SECTION 7: Handling and storage

### Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. Ensure adequate ventilation.

#### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep refrigerated. Corrosives area.

## **SECTION 8: Exposure controls/personal protection**

#### Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

#### Individual protection measures, such as personal protective equipment (PPE)

### **Eye/face protection**

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

#### **Skin protection**

Hand protection should comply with AS 2161 Industrial Safety Gloves and Mittens (Excluding Electrical and Medical Gloves).

### **Body protection**

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210 Safety Footwear.

Body Protection: Clean clothing or protective clothing should be worn, preferably with and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

### **Respiratory protection**

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

## **SECTION 9: Physical and chemical properties**

### **Basic physical and chemical properties**

Physical state Appearance Color Odor Odor threshold Melting point/freezing point Boiling point or initial boiling point and boiling range Flammability Lower and upper explosion limit/flammability limit Flash point Explosive properties Auto-ignition temperature Decomposition temperature Oxidizing properties рΗ Kinematic viscosity Solubility Partition coefficient n-octanol/water (log value) Vapor pressure Evaporation rate Density and/or relative density Relative vapor density Particle characteristics

**Supplemental information regarding physical hazard classes** No data available.

Further safety characteristics (supplemental)

Solid No data available. Orange Odourless. No data available. 30 °C Decomposes `100°C No data available. Acidic No data available. Solubility in Water: Soluble. No data available. No data available.

No data available.

### **SECTION 10: Stability and reactivity**

#### Reactivity

Stable under normal conditions of storage and handling.

### **Chemical stability**

Hygroscopic. Light sensitive.

### Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

**Conditions to avoid** Avoid dust formation. Incompatible products. Excess heat. Exposure to light. Exposure to moisture.

### Incompatible materials

Strong oxidizing agents, reducing agents and metals.

### Hazardous decomposition products

Decomposition products include of hydrogen chloride.

## **SECTION 11: Toxicological information**

### Information on toxicological effects

#### Acute toxicity

Ingestion: Symptoms include of headache, nausea, fatigue, dizziness, vomiting. May cause irritation and or burning to the mucous membranes in the lips, mouth, pharynx, oesophagus and gastrointestinal tract causing abdominal pain (cramps), diarrhea, reduced blood pressure, stomach bleeding, collapse and convulsions.

Inhalation: Irritating to mucous lining and respiratory system. May cause sore throat, coughing, laboured breathing, headache, burns or burning sensation, wheezing, laryngitis, nausea and diziness.

### Skin corrosion/irritation

Causes severe burns to skin. Symptoms may include of redness, pain, irritation, inflammation, blistering and dermatitis.

#### Serious eye damage/irritation

Causes severe burns to eyes. Inflammation is characterized by redness, pain, watering and itching. Material is desctructive to tissue of the mucous membranes and eyes which may in turn cause blindess or corneal damage.

### Respiratory or skin sensitization

May cause an allergic skin reaction

### **Germ cell mutagenicity** No data available.

**Carcinogenicity** No data available.

Reproductive toxicity No data available.

## Summary of evaluation of the CMR properties

No data available.

**Specific target organ toxicity (STOT) - single exposure** No data available.

**Specific target organ toxicity (STOT) - repeated exposure** No data available.

## Aspiration hazard

No data available.

## **SECTION 12: Ecological information**

### Toxicity

Biological Properties: Harmful due to pH shift.

### Mobility in soil

No mobility data available for this product.

## **SECTION 13: Disposal considerations**

### **Disposal methods**

### **Product disposal**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

### Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

## **SECTION 14: Transport information**

### ADG (Road and Rail)

UN Number: 3260 Class: 8 Packing Group: II Proper Shipping Name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Gold Chloride, Trihydrate)

### Hazchem emergency action code (EAC)

2X

### IMDG

UN Number: 3260 Class: 8 Packing Group: II EMS Number: Proper Shipping Name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Gold Chloride, Trihydrate)

## IATA

UN Number: 3260 Class: 8

Packing Group: II Proper Shipping Name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Gold Chloride, Trihydrate)

## SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP Poison Schedule: NS

## **SECTION 16: Other information**

### Further information/disclaimer

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

### **Preparation information**

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.' Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020. Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020. Safe Work Australia, Workplace Exposure Standards for Airbourne Contaminants, December 2019 Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au IATA, Dangerous Goods Regulations (DGR) IMO, International Maritime Dangerous Goods Code (IMDG)