

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAł 400062, MH, INDIA.

CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

MATERIAL SAFETY DATA SHEET (MSDS)

GOLD CHLORIDE (AU 24%) (CHLOROAURIC ACID)

1. Product Identification

Synonyms: Tetrachloroauric Acid, Trihydrate; Chloroauric Acid, Trihydrate; Hydrogen Tetrachloroaurate, Trihydrate; Auric Chloride, Hydrochloride,

Trihydrate

CAŚ No.: 27988-77-8

(Anhydrous); 16961-25-4 (Trihydrate)

Product Coad: G0104900010

Molecular Weight: 393.83

Chemical Formula: AuCl3 . CIH . 3H2O

2. Composition/Information on Ingredients

Ingredient CAS No Percent Hazardous

Tetrachloroauric Acid 16903-35-8 98 - 100% Yes

3. Hazards Identification

Emergency Overview

DANGER! CORROSIVE. CAUSES BURNS TO ANY AREA OF CONTACT. HARMFUL IF SWALLOWED OR INHALED.

Health Rating: 2 - Moderate Flammability Rating: 0 - None Reactivity Rating: 1 - Slight

Contact Rating: 3 - Severe (Corrosive)

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: White (Corrosive)

Potential Health Effects

Inhalation: Extremely destructive to tissues of the mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. **Ingestion:** Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach. Can cause sore throat, vomiting, diarrhea.

Skin Contact: Corrosive. Symptoms of redness, pain, and severe burn can occur.

Eye Contact: Corrosive. Contact can cause blurred vision, redness, pain and severe tissue burns. **Chronic Exposure:** Repeated exposure may cause symptoms similar to those listed for acute effects.

Aggravation of Pre-existing Conditions: No information found.

4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. Ingestion: If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard. NOTE: Decomposes at melting point.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.



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6. Accidental Release Measures

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

7. Handling and Storage

Keep in a tightly closed light-resistant container, stored in a cool, dry, ventilated area. Protect against physical damage. Material is hygroscopic. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details. Personal Respirators (NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: Golden yellow to reddish yellow crystals. Deliquescent.

Odor: Odorless.

Solubility: Appreciable (> 10%) Specific Gravity: 3.90 pH: No information found.

. % Volatiles by volume @ 21C (70F): 0 **Boiling Point:** No information found. Melting Point: 254C (489F) Vapor Density (Air=1): Not applicable

Vapor Pressure (mm Hg): Not applicable. Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage. Hygroscopic. Deliquescent in moist air. Light sensitive.

Hazardous Decomposition Products: May form chloride, hydrogen chloride, and metallic gold when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong bases.

Conditions to Avoid: Heat, moisture, light, and incompatibles.

11. Toxicological Information

Tetrachloroauric Acid: No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a mutagen.



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NTP Carcinogen				
Ingredient	Known	Anticipa	ated	IARC Category
Tetrachloroauric Acid (1690	03-35-8)	No	No	None

12. Ecological Information

Environmental Fate: No information found. **Environmental Toxicity:** No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: CORROSIVE SOLID, N.O.S. (GOLD CHLORIDE)

Hazard Class: 8 UN/NA: UN1759 Packing Group: III

Information reported for product/size: 30G

International (Water, I.M.O.)

Proper Shipping Name: CORROSIVE SOLID, N.O.S. (GOLD CHLORIDE)

Hazard Class: 8 UN/NA: UN1759 Packing Group: III

Information reported for product/size: 30G

International (Air, I.C.A.O.)

Proper Shipping Name: CORROSIVE SOLID, N.O.S. (GOLD CHLORIDE)

Hazard Class: 8 UN/NA: UN1759 Packing Group: III

Information reported for product/size: 30G

15. Regulatory Information



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\Chemical Inventory Status - Part 1\				
Ingredient	TSCA EC Japan Australia			
Tetrachloroauric Acid (16903-35-	8) Yes Yes Yes Yes			
\Chemical Inventory Status - Part 2\				
	Canada			
Ingredient	Korea DSL NDSL Phil.			
Tetrachloroauric Acid (16903-35-	Yes Yes No No			
\Federal, State & International Regulations - Part 1\				
-SAR/	A 302SARA 313			
Ingredient R0	Q TPQ List Chemical Catg.			
Tetrachloroauric Acid (16903-35-	8) No No No No			
\Federal, State & International Regulations - Part 2\				
	-RCRATSCA-			
Ingredient CE	ERCLA 261.33 8(d)			
Tetrachloroauric Acid (16903-35-	3) No No No			
Chemical Weapons Convention: No TSCA 12(b): No CDTA: No				
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No				
Reactivity: No (Pure / Solid)				

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.



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16. Other Information

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 1

Label Hazard Warning:
DANGER! CORROSIVE. CAUSES BURNS TO ANY AREA OF CONTACT. HARMFUL IF SWALLOWED OR INHALED.

Label Precautions: Do not get in eyes, on skin, or on clothing. Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Label First Aid: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In all cases get medical attention immediately.

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) No 1907/2006 and with CLP Regulation (CE) No 1272/2008

DISCLAIMER:

- SUVCHEM Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- SUVCHEM shall not be responsible for any damage resulting from handling or from contact with the above product.
- SUVCHEM provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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