



# MATERIAL SAFETY DATA SHEET

MSDS No: SM0086  
Effective Date: April 22, 2015

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	Colloidal Gold - 50 ppm		CHEMTREC 800-424-9300 Day 585-226-6177	Health	0	
<b>Chemical Synonyms</b>	Colloidal Gold			Fire	0	
<b>Formula</b>	Au			Reactivity	0	
<b>Unit Size</b>	Up to 50 milligrams / liter			<b>HMIS*</b>		
<b>C.A.S. No.</b>	7440-57-5	<b>HAZARD RATING</b>				
		MINIMAL	SLIGHT	MODERATE	SERIOUS	SEVERE
		0	1	2	3	4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	Mg/L	TLV Units
Gold	50	See Section V.
Water		

## WARNING! DO NOT TAKE IF ALLERGIC TO GOLD

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Already Liquid	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1
<b>Boiling Point (°F)</b>	212	<b>Percent Volatile by Volume (%)</b>	Not Volatile
<b>Vapor Pressure (mm Hg)</b>	17.5 @ 20 °C	<b>Evaporation Rate (Butyl acetate = 1)</b>	N/A
<b>Vapor Density (Air = 1)</b>	N/A		
<b>Solubility in Water</b>	Soluble		
<b>Appearance &amp; Odor</b>	Clear Ruby Red to Purple, Odorless		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-combustible	<b>Flammable Limits in Air % by Volume</b>	N/A
<b>Extinguisher Media</b>	Any	<b>LEL: N/A</b>	<b>UEL: N/A</b>

## SPECIAL FIREFIGHTING PROCEDURES

NONE

## UNUSUAL FIRE AND EXPLOSION HAZARDS

**FIRE:** Not a fire hazard.  
**EXPLOSION:** Not an explosion hazard.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

## SECTION V HEALTH HAZARD DATA

**Threshold Limit Value**  
N/A ... this is a liquid

**Effects of Overexposure**  
Low toxicity, but acute or chronic overexposure could result in heavy metal poisoning

**Emergency and First Aid Procedures**  
**INGESTION:** If above the recommended dose, call a physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention if irritation persists. **SKIN:** None needed. **INHALATION:** Treat as if water was inhaled.

## SECTION VI REACTIVITY DATA

**Stability** Unstable  
**Conditions to Avoid** None

**Incompatibility (Materials to Avoid)** None; Gold is un-reactive

**Hazardous Decomposition Products** No Hazardous Decomposition

**Hazardous Polymerization** **Conditions to Avoid**  
None Known

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled**  
Spillage should be absorbed or mopped up and retained for the recovery of 99.99+% pure gold. Wash spill area with soap and water.

**Waste Disposal Method**  
Send to refiners for recovery of gold. Dispose of in an approved chemical landfill or contract with a licensed waste disposal agency.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection** None required  
**Ventilation** Local Exhaust N/A Special None required  
Mechanical N/A Other None required  
**Protective Gloves** None required **Eye Protection** None required  
**Other Protective Equipment** None required

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing**  
Keep container tightly closed when not in use. Store in a cool, dry, sanitary place. Do not allow to freeze as freezing, though harmless, will destroy colloidal suspension.

**Other Precautions**  
Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach from children. Do not take more than recommended on label. Stop consuming immediately if any adverse side effects or reactions are suspected.

Revision No. 1 Date: 04/22/2015 Approved: Cherie Miller Chemical Safety Coordinator CNM

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