

# MATERIAL SAFETY DATA SHEET

GOLD

## Section I

<b>Kurt J. Lesker Company</b> 1515 Worthington Avenue Clairton, PA 15025 Ph: 412/233-4200 Fax: 412/233-4275		Emergency Phone Numbers KJLC 800/245-1656 Chemtrec 800/424-9300 Poison Center 800/562-8236	
Chemical Name and Synonyms <b>Gold</b>		Date of Last Revision 3/16/94	
Formula Au	Chemical Family	Chemical Abstract No. 7440-57-5	
TSCA		Calc. Molecular Wt.	

## Section II Hazardous Ingredients

Hazardous Ingredients	CAS #	%	TLV	OSHA PEL
Gold Metal	7440-57-5	99.9+	ND	ND

## Section III Physical Data

Boiling Point (0°C): 2550°	Density (gmcc): NA
Vapor Pressure: NA	% Volatile by Volume: NA
Reaction with Water: NA	Evaporation Rate (H <sub>2</sub> O -1): 19.3
Solubility in Water: Insoluble	Melting Point (°C): 1064°C
Appearance and Odor: Yellow soft ductile metal, no odor	Other Comments:

## Section IV Fire & Explosion Hazard Data

Flash Point (method) NA	Autoignition Temp. NA	Flammability Non-flammable	LEI NA	UEI NA
Extinguishing Media: Use foam, carbon dioxide or dry chemical				
Special Fire Fighting Procedures: Wear positive pressures self contained breathing apparatus				
Unusual Fire and Explosion Hazards: Avoid creating dust				

## Section V Spill or Leak Process

Steps to be Taken in Case Material is Released or Spilled No hazard from spills, in powder form keep dust to a minimum.
Waste Disposal Method (Consult federal, state or local authorities for proper disposal procedures.): Has reclaim value as scrap, disposer must comply with federal, state, and local disposal or discharge laws and regulations.

Gold

**Section VI Health Hazard Data**

Toxicity Data		HMIS Hazard Rating Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: 0	
Route(s) of Entry	Inhalation X	Skin X	Ingestion X
Effects of Overexposure (acute and chronic) Inhalation: Irritation, if prolonged. Dermal/Eye Contact: May cause irritation and allergic reaction Other (specify):			
Medical Conditions Generally Aggravated by Exposure			
Carcinogenicity	NTP:	IARC Monographs	OSHA Regulations
Not listed	No	No	No
Emergency and First Aid Procedures Ingestion: Procedures normally not needed. Inhalation: Procedures normally not needed. Skin Contact: Flush with water, if irritation persists, call physician. Eye Contact: Flush eyes well, if irritation develops, call physician.			

**Section VII Reactivity Data**

Stable: X Unstable:	Conditions Contributing to Instability
Incompatibility (materials to avoid): Gold plus ammonia may produce fulminate like compounds that explode when dried. Finely divided gold and strong hydrogen peroxide solution may explode.	
Hazardous Decomposition Products - Thermal and Other (list)	
Hazardous Polymerization May Occur: Will Not Occur: X	Conditions to Avoid

**Section VIII Special Protective Information**

Respiratory Protection (specify type). Use Only Niosh Approved Equip. NIOSH/MSHA approved respirator for toxic dust and/or fumes if metal worked.	
Ventilation (always maintain exposure below permissible limits) Local Exhaust: During working metal Mechanical (general): Special: Other:	
Protective Gloves: none	Eye Protection: Safety glasses recommended if possibility of getting dust particles in eyes exists.
Other Protective Equipment/Work Practices: Avoid inhalation of metal powder fume and vapor.	

**Section IX****Special Precautions**

Precautions to be Taken in Handling and Storing: Storage involves no hazard.

**Transportation Requirements**

DOT Class: Not regulated.

UN Number:

IMCO Class:

Other:

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ND = NO DATA FOUND

NA = NOT APPLICABLE