

MATERIAL SAFETY DATA SHEET

GOLD

Section I

Kurt J. Lesker Company 1515 Worthington Avenue Clairton, PA 15025 Ph: 412/387-9200 Fax: 412/384-2573		Emergency Phone Numbers KJLC 800/245-1656 Chemtrec 800/424-9300 Poison Center 800/562-8236	
Chemical Name and Synonyms Gold		Date of Last Revision 6/27/05	
Formula Au	Chemical Family	Chemical Abstract No. 7440-57-5	
TSCA		Calc. Molecular Wt.	

F. _{Li 6.3} ^{cd} 42

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 ₂ 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.

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:

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, the Kurt J. Lesker Company makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon: User should satisfy himself that he had all current data relevant to his particular use.

ND = NO DATA FOUND NA = NOT APPLICABLE