



Ophir Optronics Ltd.
Science Based Industries Park Har-Hotzvim
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MATERIAL SAFETY DATA SHEET

I PRODUCT IDENTIFICATION

Trade Name:	Gold	Synonym:	Gold Metal
Chemical Nature:	Metal	Formula:	Au
Formula Weight:	196.97	CAS #:	7440-57-5

II HAZARDOUS INGREDIENTS

Ingredient:	Gold	TLV (Units):	None Published
% Weight:	100		

III PHYSICAL DATA

Boiling Point 760 mm Hg:	2970 °C	Melting Point:	1064.76 °C
Specific Gravity:	19.31	Vapor Density:	N/A
% Volatiles by Weight:	N/A	Solubility in H₂O:	Insoluble/Negligible
Appearance and Odor:	Yellow, soft ductile metal, no odor Lump or powder		

IV FIRE AND EXPLOSION HAZARDS DATA

Flash Point (Method used): N/A	Autoignition Temperature: N/A
Flammable Limits: Upper: N/A	Extinguishing Media: None
Special Fire Fighting Procedures: None	Unusual Fire & Explosion Hazards: None

V HEALTH HAZARD DATA

Effects of Over Exposure: As a solid no known adverse effects	Carcinogenicity: None identified
Reproductive Effects: None	
Immediate (Acute) Health Hazard: Yes	Delayed (Chronic) Health Hazard: No

Effects of Overexposure:

Inhalation: Coughing sneezing, difficulty breathing, bronchitis, pneumoconiosis and pulmonary fibrosis may occur. A nuisance dust.

Dermal/Eye Contact: Dermal: Mechanical irritation, dermatitis possible. Contact of gold with the skin may cause an allergic reaction.

Skin Contact: May cause irritation and allergic reaction.

Ingestion: No adverse effects expected.

Other: An equivocal tumorigenic agent.

Medical Conditions Generally Aggravated by Exposure: Respiratory disorders. May aggravate existing dermatitis or other skin ailments.



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EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush eyes with lukewarm water for 15 minutes. If irritation persists contact a physician.

SKIN: Wash Thoroughly. If irritation persists contact a physician.

INHALATION: Remove to Fresh Air, contact Physician.

INGESTION: If large quantities are ingested, contact Physician.

VI REACTIVITY DATA

Stability: Generally considered stable.

Incompatibility (Material 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: Toxic fumes under fire conditions.

Hazardous Polymerization: Is not expected to occur.

VII SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled: Vacuum or scoop the material into a container for reclamation or disposal.

Waste Disposal Method: In accordance with Local, State and Federal Regulations. Has reclaim value as scrap.

VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection: If dust, NIOSH approved Schedule 21 oC resp

Ventilation: Recommended where dusting may occur.

Eye Protection: Safety Glasses

Protective Gloves: For Extended use of powder

Other Protective Equipment: None

IX SPECIAL PRECAUTIONS

Other Handling and Storage Conditions: Avoid and control operations which create dusting. Wash thoroughly after handling. Keep container closed. Avoid contact with eyes and skin.

US Federal Regulations: SARA 311 and 312 Hazard Categories

Fire Hazard: No **Reactivity Hazard:** No **Sudden Release of Pressure:** No

The information in this MSDS should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This MSDS has been prepared for the guidance of plant engineering, operations, and management and for persons working with or handling this product. The information presented in the MSDS is premised upon proper handling and anticipated uses and is for the material without chemical additions/alterations. We believe this information to be reliable and up-to-date as of the date of publication, but make no warranty that it is.

Prepared by: S Dierks

Dated: March 1994