



International Advanced Materials

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Material Data Safety Sheet

Quick Identifier: Gold

I. PRODUCT IDENTIFICATION

| | | | |
|--------------------|-----------|--------------------------|----|
| Trade Name: | Gold | Formula: | Au |
| Synonyms: | | Molecular Weight: | |
| CAS #: | 7440-57-5 | | |

II. HAZARDOUS INGREDIENTS

| <u>Hazardous Components:</u> | <u>OSHA PEL:</u> | <u>ACGIH TLV:</u> | <u>Other Limits:</u> |
|------------------------------|------------------|-------------------|----------------------|
| Gold | N/A | N/A | N/A |

The ingredients of this product are not considered hazardous under the definition given in 29 CFR1910. 1200 (D) or are not present in concentrations greater than 1% (.1% for carcinogens, mutagens or teratogens).

| | | | | | |
|-----------------------------------|-------------------------------------|----------------------|----|--------------------|----|
| Sec. 302 (EHS): | No | Sec. 304 RQ: | No | Sec. 313: | No |
| HMIS Ratings (0-4): | 1 | Flammability: | 1 | Reactivity: | 0 |
| Health: | | | | | |
| HMIS Protective Equipment: | E: Glasses, gloves, dust respirator | | | | |

III. PHYSICAL DATA

| | | | |
|---|----------------|--------------------------------------|----------------|
| Boiling Point: | N/A | Melting Point: | N/A |
| Specific Gravity (H₂O=1): | Not determined | Vapor Density (Air=1): | Not determined |
| Vapor Pressure (mm Hg): | Not determined | Evaporation Rate: | N/A |
| % Volatiles by Volume: | N/A | Solubility in H₂O: | Not determined |

Appearance and Odor: Gold no odor.

IV. FIRE AND EXPLOSION HAZARDS DATA

| | | | |
|----------------------------|-----------------|-----------------|--|
| Flash Point/Method: | Not applicable | | |
| Explosive Limits: | LEL: N/A | UEL: N/A | |

| | |
|--|---|
| Extinguishing Media: | Co2 dry chemical foam. |
| Special Fire Fighting Procedures: | Protective clothing and positive pressure, self contained breathing apparatus as specified in 19 CFR 1910 subpart L should be worn. |
| Unusual Fire and Explosion Hazards: | Metal powders and dusts may cause catalytic oxidation of flammable organic solvent vapors. |

V. HEALTH HAZARD INFORMATION

| | | | | | |
|------------------------------|---------------------------------------|-------------------------|----|------------------------|----|
| Routes of Entry: | Inhalation, Skin and Eyes, Ingestion. | | | | |
| Target Organs: | N/A | | | | |
| Carcinogenicity: NTP: | No | IARC Monographs: | No | OSHA Regulated: | No |
| LD50/LC50: | No toxicity data recorded. | | | | |

Health Hazards (Acute and Chronic):

Inhalation:

Acute: Irritation if exposed for long periods of time.

Chronic: N/A

Ingestion:

Acute: N/A

Chronic: N/A

Skin:

Acute: Irritation and allergic reaction may occur

Chronic: N/A

Eye:

Acute: Irritation may occur

Chronic: N/A

Signs and Symptoms of Exposures:

Inhalation: N/A

Ingestion: N/a

Skin: N/A

Eye: N/a

Medical Conditions Generally N/A

Aggravated by Exposure:

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove victim from area. Seek medical advice

INGESTION: Unless unconscious, induce vomiting, seek medical attention immediately.

SKIN: Flush with water, remove contaminated clothing, seek medical advice.

EYE: Flush with water, seek medical attention.

VI. REACTIVITY DATA

Stability: Stable

Incompatibility (Material to avoid): Hydrogen peroxide, methanol and flammable organic solvent vapors.

Hazardous Decomposition Products: Possibly metal and metal oxide fumes

Hazardous Polymerization: Will not occur

Conditions to Avoid: Flammable organic solvent vapors.

VII. SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material Is Released or Spilled: Sweep or vacuum up spill. Place spilled material in metal safety can.

Waste Disposal Method: Dispose of according to federal, state and local regulations, or send to a refinery for recovery of precious metals.

Other Precautions: Avoid organic solvent vapor.

Precautions to Be Taken in Handling and Storing: Keep containers tightly closed and store in cool, dry area.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: Appropriate NIOSH approved respirator in poorly ventilated areas.

Ventilation: Local Exhaust: Should be utilized

Mechanical (General): N/A

Protective Gloves: Solvent resistant

Eye Protection: Chemical splash proof goggles.

Other Protective Clothing or Equipment: Apron or protective clothing recommended.

Work/Hygienic/Maintenance Practices: Normal hygienic practices.

IX. ADDITIONAL COMMENTS

Some of the chemicals listed herein are research or experimental substances which may be toxic, as defined by various governmental regulations. In accordance with Environmental Protection Agency regulations and the Toxic Substance Control Act (TSCA), these materials should only be handled by, or under the direct supervision of a “technically qualified individual”, as defined in 40 CFR 710.2(aa).

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