Section 1: Product and Company Identification

Product Name: Colloidal Gold

Synonym: Burnish gold, C.I. 77480, C.I. Pigment metal 3, Colloidal gold, Gold flake, Gold powder, Magnesium gold purple, Shell gold. The synonyms supplied are for a closely related compound. Non biological in nature.

Manufacture: BB International Ltd

Company Name
Ted Pella, Inc., P.O. Box 492477, Redding, CA 96049-2477

Inside USA and Canada 1-800-237-3526 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)
Outside USA and Canada 1-530-243-2200 (Mon-Thu. 6:00AM to 4:30PM PST; Fri 6:00AM to 4:00PM PST)

CHEMTREC USA and Canada Emergency Contact Number 1-800-424-9300 24 hours a day

CHEMTREC Outside USA and Canada Emergency Contact Number +1-703-741-5970 24 hours a day

Section 2: Hazard Identification

2.1 Classification of substance or mixture

This product has no classification under CLP.

Not classified as a hazardous substance.

GHS Pictograms: NA
GHS Categories: NA

2.2 Label elements

Void
Hazard Pictograms: NA
Signal Word: NA
Hazard Statements: NA
Precautionary Statements: NA

2.3 Other hazards

Health Effects:
NFPA Hazard Rating: Health: 0; Fire: 0; Reactivity: 0
HMIS® Hazard Rating: Health: 0; Fire: 0; Reactivity: 0
(0=least, 1=Slight, 2=Moderate, 3=High, 4=Extreme)

Results of PBT and vPvB assessment:
PBT: ND
vPvB: ND

Emergency overview
Appearance: Liquid, colorless, pale yellow, red or purple.
Immediate effects: Avoid contact and inhalation.

**Potential health effects**

Primary Routes of entry: NIF

Signs and Symptoms of Overexposure: Exposure to gold compounds can cause contact dermatitis. The toxicological properties have not been thoroughly investigated. The data supplied are for a closely related compound.

Eyes: May cause irritation.

Skin: May be harmful by skin absorption.

Ingestion: May be harmful by ingestion.

Inhalation: May be harmful by inhalation.

Chronic Exposure: ND

Chemical Listed As Carcinogen Or Potential Carcinogen: No

See Toxicological Information (Section 11)

**Potential environmental effects**

See Ecological Information (Section 12)

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### Section 3: Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Principle Hazardous Component(s) (chemical and common name(s)) (Cas. No)</th>
<th>%</th>
<th>OSHA PEL mg/m3</th>
<th>ACGIH TLV mg/m3</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA regulated Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colloidal gold (7440-57-5) EC-No. 231-165-9</td>
<td>0.001-0.01%</td>
<td>NE</td>
<td>NE</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

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### Section 4: First Aid Measures

**If accidental overexposure is suspected**

Eye(s) Contact: Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Call a physician.

Skin Contact: Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Inhalation: If swallowed, wash out mouth with water provided the person is conscious. Call a physician.

Ingestion: Remove to fresh air. If breathing becomes difficult, call a physician.

**Note to physician**

Treatment: ND

Medical Conditions generally Aggravated by Exposure: ND

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### Section 5: Fire Fighting Measures

Flash Point: NA

Flammable Limits: NA

Auto-ignition point: NA

Fire Extinguishing Media: Water spray, carbon dioxide, dry chemical powder or appropriate foam.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards: Emits toxic fumes under fire conditions.

Hazardous combustion products: ND

DOT Class: None
Section 6: Accidental Release Measures
Steps to be Taken in Case Material is Released or Spilled:
Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after pickup is complete.
Waste Disposal Methods: Dispose of waste according to Federal, State and Local Regulations.

Section 7: Handling and Storage
Precautions to be taken in Handling and Storage: Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin and eyes. Must be kept in original packaging.
Storage temperature: Store between 2 – 8°C. Do not freeze.
Storage Pressure: NA
For laboratory use only.

Section 8: Exposure Controls / Personal Protection
Engineering Controls
Ventilation required: Mechanical exhaust.

Personal Protection Equipment
Respiratory protection: Wear appropriate NIOSH/MSHA approved respirator.
Protective gloves: Chemical resistant gloves.
Skin protection: Wear protective clothing, including fully-buttoned lab coat.
Eye protection: Wear safety goggles or face shield.
Additional clothing and/or equipment: ND

Exposure Guidelines
See Composition/Information on Ingredients (Section 3)

Section 9 Physical and Chemical Properties
Appearance and Physical State: Liquid; colorless/pale yellow or red/purple.
Odor (threshold): None (ND)
Specific Gravity (H2O=1): ND
Vapor Pressure (mm Hg): ND
Vapor Density (air=1): ND
Percent Volatile by volume: ND
Evaporation Rate (butyl acetate=1): As water.
Boiling Point: As water.
Freezing point / melting point: As water
pH: 5 to 10
Solubility in Water: Aqueous solution
Molecular Weight: NA

Section 10: Stability and Reactivity
Stability: Stable.
Conditions to Avoid: Freezing
Materials to Avoid (Incompatibility): Contact with salts will cause precipitation of colloid. Also halogens, hydrogen peroxide, ammonia.
Hazardous Decomposition Products: ND
Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information
Results of component toxicity test performed:
RTECS data supplied are for a closely-related compound.
RTECS number: MD5070000, Gold.
Target Organ Data:
   - Lungs, thorax or respiration (acute pulmonary oedema)
   - Lungs, thorax or respiration (Dyspnea)
   - Tumorigenic (equivocal tumorigenic agent by RTECS criteria)
   - Tumorigenic (tumors at site of application)

Only selected registry of toxic effects of chemical substances is presented here.
See actual entry in RTECS for complete information.
Human experience: ND
This product does not contain any compounds listed by NTP or IARC or regulated by OSHA as a carcinogen.

Section 12: Ecological Information
Ecological Information: ND
Chemical Fate Information: ND

Section 13 Disposal Considerations
RCRA 40 CFR 261 Classification: NA
Contact a licensed waste disposal service to dispose of this material. Licensed Waste Disposal: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Federal, State and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Section 14: Transportation Information
US DOT Information: Proper shipping name: Not regulated
Hazard Class: None
Packaging group: None
UN Number: None
Limitations: None
IATA: Proper shipping name: Not regulated
Hazard Class: None
Packaging group: None
UN Number: None
Limitations: None
Domestic shipments only: NA
IMO: Proper shipping name: Not regulated
Class: None
UN Number: None
Packaging group: None
Marine Pollutant: No
Canadian TDG: ND

Section 15: Regulatory Information
United States Federal Regulations
SARA: None
SARA Title III: None
RCRA: None
TSCA: EPA TSCA section 8 (B) Chemical Inventory
   EPA TSCA section 8 (D) Unpublished health / safety studies
   EPA TSCA test submission (TSCATS) data base, September 1997.
CERCLA: No RQ
**State Regulations**  
California Proposition 65: None  

**International Regulations**  
Canada WHMIS: ND  
Europe EINECS Numbers: EC NO: 231-165-9  
TLV and source  
RTECS data and synonyms supplied are for a closely related compound.  
Reviews, standards and regulations  
OEL = MAK  
NOHS 1974: HZD T0367; NIS 2; TNF 80; NOS 2; TNE 174  
NOHS 1974: HZD 35455; NIS 18; TNF 1230; NOS 25; TNE 9464  
NOES 1983: HZD X2971; NIS 1; TNF 3; NOS1; TNE 6  
NOES 1983: HZD X7506; NIS 4; TNF 225; NOS 10; TNE 2626; TFE 108  
NOES 1983: HZD 35455; NIS 27; TNF 2595; NOS39; TNE 30128; TFE 5425

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**Section 16: Other Information**  
Label Information: Avoid contact and inhalation.  
European Risk and Safety Phrases: NIF  
European symbols needed: NIF  
Canadian WHMIS Symbols: NIF  

**Abbreviations used in this document**  
NE= Not established  
NA= Not applicable  
NIF= No Information Found  
ND= No Data

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**Disclaimer**  
Ted Pella, Inc. makes no warranty of any kind regarding the information furnished herein. Users should independently determine the suitability and completeness of information from all sources. While this data is presented in good faith and believed to be accurate, it should be considered only as a supplement to other information gathered by the user. It is the User's responsibility to assure the proper use and disposal of these materials as well as the safety and health of all personnel who may work with or otherwise come in contact with these materials.

SDS Form 0013F1V4