




# SDS – 18K Gold Heavy Plating Pen PL-1017

## 1. Product and Company Identification

<b>Product Name</b>	18K Gold Heavy Plating Pen PL-1017
<b>Other Product Name(s)</b>	
<b>Product Use</b>	Gold electroplating
<b>Manufacturer</b>	Hunter Products, Inc. 36 Madison Ave. Flemington, NJ 08822 908-526-8440
<b>Emergency Telephone Number</b>	908-230-0800

## 2. Hazards Identification

**Emergency Overview:** Black pen-like dispenser of compound containing gold used for electroplating. Compound is an eye irritant and harmful if swallowed.

<b>OSHA Regulatory Status</b>	Hazardous
<b>OSHA Classification</b>	Eye damage/irritation: Cat 2a Specific Target Organ Toxicity – Single Exposure. Cat 3
<b>OSHA Signal Word</b>	WARNING
<b>OSHA Hazard Statements</b>	Causes serious eye irritation. May cause respiratory irritation (during use).
<b>OSHA Precautionary Statements</b>	Wear glasses or goggles and protective gloves (while handling). Do not breathe fumes or vapors (during use). Do not swallow. Wash thoroughly after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor. For Respiratory Irritation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>OSHA Label Symbols</b>	
<b>Other Hazards Not Specified by OSHA</b>	None

23% of product consists of ingredients with unknown oral toxicity.

### Potential Health Effects:

<b>Skin</b>	May irritate some individuals.
<b>Eyes</b>	Causes irritation
<b>Ingestions</b>	Harmful if swallowed.
<b>Inhalation</b>	Vapors may cause irritation (created during use).
<b>Chronic Effects</b>	None anticipated

Ingredients found on established carcinogen lists:

<b>Ingredient</b>	<b>NTP Status</b>	<b>IARC Statue</b>	<b>OSHA List</b>
No ingredients listed	---	---	---

### 3. Composition / Information on Ingredients

Chemical Name	CAS #	EC Number	Wt. %*
Gold potassium cyanide (Acute toxicity: oral 1 & dermal 2; Aquatic acute 1, chronic 1)	13967-50-5	237-748-4	1 – 2
Ammonium citrate dibasic (Eye irritant 2, STOT-SE 3)	3012-65-5	221-146-3	15 – 20
Water (not hazardous)	7732-18-5	231-791-2	77

### 4. First Aid Measures

<b>Skin</b>	If on skin wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
<b>Eyes</b>	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.
<b>Ingestions</b>	Contact a poison control center.
<b>Inhalation</b>	Remove to fresh air.
<b>Advice to Physician</b>	Treats symptomatically.

### 5. Fire Fighting Measures

<b>Extinguishing Media:</b>	Use any media suitable for surrounding fire.
<b>Fire/Explosion Hazards:</b>	None noted
<b>Fire Fighting Procedures:</b>	Wear normal turn-out gear. Avoid contact with skin and eyes. Wear self-contained respiratory protection.
<b>Flammable Limits:</b>	None
<b>Flash Point</b>	None
<b>Auto ignition Temperature:</b>	Not determined
<b>Hazardous Combustion Products:</b>	Toxic inorganic and organic compounds and metal (gold) fumes.

### 6. Accidental Release Measures

<b>Personal Precautions:</b>	Wear proper personal protective equipment indicated in Section 8.
<b>Containment:</b>	Pick up pen(s) from ground or other surface
<b>Clean Up:</b>	Discharge of contents highly unlikely. In case of liquid spill, use absorbent like clay or kitty litter and place in container for disposal.
<b>Notification Requirements:</b>	None noted

### 7. Handling and Storage

<b>Handling:</b>	Wear proper personal protective equipment indicated in Section 8. Wash hands before eating or drinking.
<b>Storage:</b>	Should be stored in a dry location. Keep packages tightly closed to minimize product contamination. Keep out of the reach of children.

## 8. Exposure Controls / Personal Protection

<b>Engineering Controls:</b>	Appropriate ventilation for removal of all electroplating vapors should be used.
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### Personal Protective Equipment:

<b>Eyes and Face:</b>	Wear safety glasses or chemical goggles to avoid accidental eye contact.
<b>Respiratory:</b>	Point ventilation to remove all electroplating vapors and fumes should be used.
<b>Hands, Arms, and Body:</b>	Use work gloves and aprons suitable for electroplating operations.
<b>Other</b>	Safety shower and an eyewash (or source of running water) should be available for emergency exposures.

### Exposure Guidelines:

Ingredient	ACGIH TLW	ACGIH STEL	OSHA PEL	OSHA STEL
No ingredients listed	---	---	---	---

## 9. Physical and Chemical Properties

<b>Appearance &amp; Physical State</b>	Black pen-like device containing liquid ingredient
<b>Odor:</b>	None
<b>Odor Threshold:</b>	None
<b>pH</b>	Not applicable
<b>Specific Gravity (Relative density):</b>	Approximately 1
<b>Initial Boiling Point &amp; Range:</b>	Greater than water
<b>Melting Point /Freezing Point:</b>	Less than water
<b>Evaporation Rate:</b>	Not determined
<b>Percent Volatile:</b>	Not determine
<b>Solubility in Water</b>	Completely soluble
<b>Vapor Density:</b>	Not determined
<b>Vapor Pressure:</b>	Not determined
<b>Upper/ Lower Flammable Limits:</b>	None
<b>Flash Point</b>	None
<b>Auto ignition Temperature:</b>	Not determined
<b>Flammability (solid, gas)</b>	Not applicable
<b>Octanol/water partition coefficient</b>	Not determined
<b>Decomposition temperature</b>	Not determined
<b>Viscosity</b>	Not determined

## 10. Stability and Reactivity

<b>Stability:</b>	Stable product
<b>Conditions to Avoid:</b>	None anticipated
<b>Materials to avoid</b>	None anticipated.
<b>Hazardous Polymerization:</b>	Will not occur
<b>Hazardous Decomposition Products</b>	Gold fume, toxic cyanide vapors, NOx.

## 11. Toxicological Information

<b>Eye:</b>	Causes eye irritation.
<b>Skin:</b>	May cause irritation to sensitive individual
<b>Oral:</b>	Estimated > 2000 mg/kg (oral, rat) May be harmful due to small cyanide content.
<b>Inhalation:</b>	Processing vapors may cause irritation.
<b>Chronic:</b>	No effects anticipated.

## 12. Ecological Information

<b>Acute ecotoxicity:</b>	Not determined
<b>Chronic ecotoxicity</b>	Not determined
<b>Other information</b>	None

## 13. Disposal Considerations

<b>RCRA Status</b>	Not a hazardous waste if discarded
<b>Disposal Method:</b>	Conform with Federal, State and Local regulations.

## 14. Transportation Considerations

<b>DOT Proper Shipping Name:</b>	Not regulated for transport
<b>DOT Primary Hazard Class</b>	Not applicable
<b>DOT UN / NA Number:</b>	Not applicable
<b>DOT Packing Group</b>	Not applicable
<b>TDG (Canada)</b>	Not regulated for transport
<b>IMDG (International water)</b>	Not regulated for transport
<b>ICAO (Air transport)</b>	Not regulated for transport

## 15. Regulatory Information

### UNITED STATES:

#### Toxic Substances Control Act (TSCA)

<b>TSCA Inventory Status:</b>	Listed on TSCA Chemical Inventory
<b>Other TSCA Issues:</b>	None

#### SARA Title III/CERCLA

Ingredients with "Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs).

<b>Ingredient</b>	<b>SARA/CERCLA RQ (lb.)</b>	<b>SARA EHS TPQ (lb.)</b>
No ingredients listed in this section	---	---

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

<b>SARA 311 Hazard Class:</b>	Immediate
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**SARA 313 Toxic Chemicals:**

The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

Ingredient	Comment
Gold potassium cyanide	Must be reported annually (EPCRA regulations)

**State Right-To-Know**

In addition to the ingredients found in Section 2, the following are listed for state right-to-know purposes.

Ingredient	Weight %	Comment
No ingredients listed	----	----

<b>Additional Regulatory Information:</b>	None
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**16. Other Information**

- Keep out of the reach of children.

<b>Issue Date:</b>	June 9, 2015
<b>Previous Issue Date:</b>	January 20, 2011
<b>Changes from previous version:</b>	Revision of format to meet HCS 2012.

**National Fire Protection Assoc. (NFPA) Classification:**

4 = Severe; 3 = Serious; 2 = Moderate; 1 = Slight, 0 = Minimal

Health 2      Flammability 0      Reactivity 0

**Hazardous Materials Information Systems (HMIS):**

4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant

Health 2      Flammability 0      Physical Hazard 0