




# SDS – 24K Gold Plating Pen PL-1003

## 1. Product and Company Identification

|                                   |  |
|-----------------------------------|--|
| <b>Product Name</b>               | 24K Gold Plating Pen PL-1003   |
| <b>Other Product Name(s)</b>      | PL-1003 Plating Pen  |
| <b>Product Use</b>                | Gold electroplating  |
| <b>Manufacturer</b>               | Hunter Products, Inc.<br>36 Madison Ave<br>Flemington NJ 08822<br>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<br>Specific Target Organ Toxicity – Single Exposure. Cat 3  |
| <b>OSHA Signal Word</b>                    | WARNING   |
| <b>OSHA Hazard Statements</b>              | Causes serious eye irritation.<br>May cause respiratory irritation (during use).  |
| <b>OSHA Precautionary Statements</b>       | Wear glasses or goggles and protective gloves (while handling).<br>Do not breathe fumes or vapors (during use).<br>Do not swallow.<br>Wash thoroughly after handling.<br>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<br>(Acute toxicity: oral 1 & dermal 2; Aquatic acute 1, chronic 1) | 13967-50-5 | 237-748-4 | 1 – 2   |
| Ammonium citrate dibasic<br>(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> | Treat symptomatically.  |

### 5. Fire Fighting Measures

|                                       |  |
|---------------------------------------|--|
| <b>Extinguishing Media:</b>           | Use any medial 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. |
|------------------------------|--|

### 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 |
|------------------|-----------|------------|-----------------------------|-----------|
| Cyanides (as CN) | ---       | ---        | 5 mg/m <sup>3</sup><br>skin |           |

## 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> |
|--------------------------|-----------------------------|---------------------------|
| Ammonium citrate dibasic | 5000                        | ---                       |

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 |
|-------------------------------|-----------|

**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 |
|---|------|

**16. Other Information**

- Keep out of the reach of children.

|                                       |  |
|---------------------------------------|--|
| <b>Issue Date:</b>                    | August 22, 2018  |
| <b>Previous Issue Date:</b>           | June 9, 2015   |
| <b>Changes from previous version:</b> | Revisions to exposure values (section 8) and RQs (section15) |

**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