




# SDS – Copper Heavy Plating Pen PL-1019

## 1. Product and Company Identification

<b>Product Name</b>	Copper Plating Pen PL-1019
<b>Other Product Name(s)</b>	PL-1019 Cooper Plating Pen
<b>Product Use</b>	Coppeer 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 blue liquid containing copper compound used for electroplating. Can cause skin & eye burns.

<b>OSHA Regulatory Status</b>	Hazardous
<b>OSHA Classification</b>	Acute Toxicity, Oral: 3 Skin Corrosion/Irritation: 1B Eye Damage/Irritation 1
<b>OSHA Signal Word</b>	DANGER
<b>OSHA Hazard Statements</b>	Causes severe skin burns and eye damage. Harmful if swallowed
<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 swallowed, call a physician or Poison Control Center. Do not induce vomiting. 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. If On Skin: Wash with plenty of water. If skin irritation or burns occur: Get medical advice/attention. For Respiratory Irritation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If exposed or concerned: Get medical advice or attention.
<b>OSHA Label Symbols</b>	
<b>Other Hazards Not Specified by OSHA</b>	Aquatic Toxicity Chronic 2

### Potential Health Effects:

<b>Skin</b>	Causes irritation and may cause burn in the absence of prompt first aid.
<b>Eyes</b>	Causes irritation and possible permanent damage.
<b>Ingestions</b>	Harmful if swallowed.
<b>Inhalation</b>	Vapors may cause irritation (created during use). May cause allergic reaction.
<b>Chronic Effects</b>	None

Ingredients found on established carcinogen lists:

Ingredient	NTP Status	IARC Statue	OSHA List
No ingredients listed in this section	---	---	---

### 3. Composition / Information on Ingredients

Chemical Name	CAS #	EC Number	Wt. %*
Coppere pyrophosphate (Aqua Tox Chronic 2)	10102-90-6	233-279-4	5 – 15
Ammonium hydroxide (Skin corrosion 1B)	1336-21-6	215-647-6	10 – 20
Citric acid (Eye damage/irritation 2)	77-92-2	201-069-1	10 – 20
Water (not hazardous)	7732-18-5	231-791-2	25 – 40

\* Exact percentages are trase secret.

### 4. First Aid Measures

<b>Skin</b>	If on skin wash with plenty of water. If skin irritation or burns occurs: Get medical advice/attention.
<b>Eyes</b>	If in eyes: Rinse cautiously with water for up to 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor for burns or irritation.
<b>Ingestions</b>	Contact a poison control center. Irritation or other symptoms may occur.
<b>Inhalation</b>	Remove to fresh air. Consult physician relative to any concern about cancer or fertility.
<b>Advice to Physician</b>	Treat symptomatically.

### 5. Fire Fighting Measures

<b>Extinguishing Media:</b>	Use any agent suitable for surrounding fire (but do not allow runoff to enter sewers or natural waterway.)
<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 (nickel, zinc) 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 for this item size. (Also see section 15.)

## 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. Follow all recommended exposure guidelines found below.
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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 in this section	---	---	---	---

## 9. Physical and Chemical Properties

<b>Appearance &amp; Physical State</b>	Black pen-like device containing blue liquid ingredient
<b>Odor:</b>	None
<b>Odor Threshold:</b>	None
<b>pH</b>	Not determined
<b>Specific Gravity (Relative density):</b>	Not determined for liquid
<b>Initial Boiling Point &amp; Range:</b>	~ 212°F (100°C)
<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>	Can react with strong oxidizers.

<b>Hazardous Polymerization:</b>	Will not occur
<b>Hazardous Decomposition Products</b>	Irritating copper and phosphorous oxides.

## 11. Toxicological Information

<b>Eye:</b>	Causes eye irritation and/or corrosive burns
<b>Skin:</b>	May cause irritation and, corrosive burns
<b>Oral:</b>	Calculated: 1010 mg/kg (oral, rat) May be harmful due to nickel compound content.
<b>Inhalation:</b>	Processing vapors may cause irritation.
<b>Chronic:</b>	None

## 12. Ecological Information

<b>Acute ecotoxicity:</b>	Not rated
<b>Chronic ecotoxicity</b>	Toxic to aquatic species
<b>Other information</b>	May persist in the environment

## 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 hydroxide	1000	---

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
Ammonium hydroxide	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 in this section.	---	---

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

- Keep out of the reach of children.

<b>Issue Date:</b>	August 12, 2015
<b>Previous Issue Date:</b>	January 1, 2008
<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 3 Flammability 0 Reactivity 0

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

4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant  
 Health 3\* Flammability 0 Physical Hazard 0 \* = Chronic health risk