



# SMOOTH N SLEEK SDN BHD

(Co. Reg. No: 321141-K)  
UNIT 1-05-12, KRYSTAL POINT CORPORATE PARK, KRYSTAL POINT II,  
LEBUH BUKIT KECIL 6, 11900 BAYAN LEPAS, PENANG, MALAYSIA  
TEL. NO: 6(04)-644 8029, 644 9029 FAX NO: 6(04)-644 0107  
E-MAIL : [sales@snspcb.com](mailto:sales@snspcb.com) WEBSITE : [www.snspcb.com](http://www.snspcb.com)


## SDS – Silver (Heavy) Plating Pen 120-AGH-018

### 1. Product and Company Identification

Product Name	Silver (Heavy) Plating Pen
Other Product Name(s)	120-AGH-018
Product Use	Silver Electroplating
Importer/Distributor	<b>SMOOTH N SLEEK SDN BHD</b> (Co. Reg. No: 321141-K) UNIT 1-05-12, KRYSTAL POINT CORPORATE PARK, KRYSTAL POINT II, LEBUH BUKIT KECIL 6, 11900 BAYAN LEPAS, PENANG, MALAYSIA TEL. NO: 6(04)-644 8029, 644 9029 FAX NO: 6(04)-644 0107 E-MAIL ADDRESS : <a href="mailto:sales@snspcb.com">sales@snspcb.com</a> WEBSITE : <a href="http://www.snspcb.com">www.snspcb.com</a>
Emergency Telephone Number	+6(012)-470 8828

### 2. Hazards Identification

**Emergency Overview:** Dark green pen-like dispenser of compound containing silver used for electroplating. Compound is toxic and a skin and eye irritant.

OSHA Regulatory Status	Hazardous
OSHA Classification	Oral toxicity: Cat 4 Dermal toxicity: Cat 4 Skin corrosion/irritation: 2 Eye damage/irritation: Cat 2a Specific Target Organ Toxicity – Single Exposure. Cat 3
OSHA Signal Word	WARNING
OSHA Hazard Statements	Harmful if swallowed. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation (during use).
OSHA Precautionary Statements	Wear glasses or goggles and protective gloves (while handling). Do not breathe fumes or vapors (during use). Do not get in eyes, on skin or on clothing. 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. If on skin, wash with water. Call a physician if you feel unwell. For Respiratory Irritation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
OSHA Label Symbols	
Other Hazards Not Specified by OSHA	None

20% of product consists of ingredients with unknown oral toxicity.



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### Potential Health Effects:

<b>Skin</b>	Causes irritation. Harmful in contact with skin.
<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 ingredinets listed	---	---	---

### 3. Composition / Information on Ingredients

<b>Chemical Name</b>	<b>CAS #</b>	<b>EC Number</b>	<b>Wt. %*</b>
Silver potassium cyanide (Acute toxicity: oral 2 & dermal 2 ;)	506-61-6	221-146-3	1 – 5
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	65 - 80

### 4. First Aid Measures

<b>Skin</b>	If on skin wash with plenty of water. If skin irritation occurs or if you feel unwell: 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 (silver) 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



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### 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
Silver potassium cyanide (as silver)	0.01 mg/m <sup>3</sup>	---	0.01 mg/m <sup>3</sup>	---
Cyanides (as CN)	---	---	5 mg/m <sup>3</sup> skin	

### 9. Physical and Chemical Properties

<b>Appearance &amp; Physical State</b>	Dark Green 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



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### 10. Stability and Reactivity

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

### 11. Toxicological Information

Eye:	Causes eye irritation.
Skin:	Causes skin irritation.
Oral:	Estimated >702 mg/kg (oral, rat) Harmful due to small cyanide content.
Inhalation:	Processing vapors may cause irritation.
Chronic:	No effects anticipated.

### 12. Ecological Information

Acute ecotoxicity:	Not determined
Chronic ecotoxicity	Not determined
Other information	None

### 13. Disposal Considerations

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

### 14. Transportation Considerations

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

### 15. Regulatory Information

#### UNITED STATES:

#### Toxic Substances Control Act (TSCA)

TSCA Inventory Status:	Listed on TSCA Chemical Inventory
Other TSCA Issues:	None

#### SARA Title III/CERCLA

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

Ingredient	SARA/CERCLA RQ (lb.)	SARA EHS TPQ (lb.)
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.



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<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.

<b>Ingredient</b>	<b>Comment</b>
Silver 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.

<b>Ingredient</b>	<b>Weight %</b>	<b>Comment</b>
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>	November 21, 2015
<b>Previous Issue Date:</b>	January 10, 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 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