

MATERIAL SAFETY DATA SHEET



Date issued: 20 NOV 2016
MSDS No: PNPSLV
Revision No: 2

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: **PNPSLV35**

PRODUCT DESCRIPTION: SILVER PLUG AND PLATE SOLUTION

MANUFACTURER

CASWELLINC. 7696 ROUTE 31
LYONS NY 14489
Emergency Contact: 8004249300
Product Stewardship: 3159461213
Transportation: 8004249300
Service Number: 3159461213 CASWELLINC.
7696 ROUTE 31
LYONS NY 14489 USA
Emergency Contact: CHEMTREC
Emergency Phone: +1 703 527 3887
Service Number: +1 315 946 1213
Transportation Number: +1 703 527 3887

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC: 1800 424 9300
CHEMTREC INTERNATIONAL: 703 527 3887

**SUPPLIED IN AUSTRALIA BY
CASWELL AUSTRALIA P/L**

**FACTROY 1
51 ELM PARK DRIVE
HOPPERS CROSSING 3029
VICTORIA**

PH 03 9741 7103

EMERGENCY CONTACT 000

2 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: The absorption of silver compounds into the circulation and the deposition of reduced silver in various tissues of the body may result in the production of generalized grayish pigmentation of the skin and mucus membranes (argyria). Generalized argyria develops after 2 to 25 years of exposure.

Ingestion is harmful and may cause death.

POTENTIAL HEALTH EFFECTS

EYES: Causes eye irritation. **SKIN:**

Causes skin irritation.

INGESTION Harmful if swallowed

INHALATION Harmful if inhaled

SIGNS AND SYMPTOMS OF OVEREXPOSURE

CHRONIC EFFECTS: The absorption of silver compounds into the circulation and the deposition of reduced silver in various tissues of the body may result in the production of generalized grayish pigmentation of the skin and mucus membranes (argyria). Generalized argyria develops after 2 to 25 years of exposure. Ingestion is harmful and may cause death.

ROUTES OF ENTRY INGESTION, INHALATION Skin Contact. Eyes.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS	EINECS
Silver Nitrate	< 5	007761-88-8	231-853-9

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately. **SKIN:** Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE LIMITS:

Notes: Not flammable.

EXTINGUISHING MEDIA: Any available.

FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Pick up wash liquid with additional absorbent and place in a disposable container.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: WEAR PERSONAL PROTECTIVE EQUIPMENT AS DESCRIBED IN EXPOSURE CONTROLS/PERSONAL PROTECTION (SECTION 8) OF THE MSDS. DO NOT GET IN EYES, ON SKIN OR CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE. AVOID BREATHING AIRBORNE PARTICULATES; WEAR RESPIRATORY PROTECTION WHEN EXPOSURE IS POSSIBLE. WASH CONTAMINATED CLOTHING BEFORE REUSE. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING.

SHELF LIFE: 1 Year

8. EXPOSURE CONTROLS / PERSONAL PROTECTION EXPOSURE**GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)					
Chemical Name		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
		ppm	mg/m ³	ppm	mg/m ³
Silver Nitrate	TWA		0.01 mg/m ³		0.01 mg/m ³

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical splash goggles and face shield (ANSI 287.1 or approved equivalent). Do not use contact lenses.

SKIN: Wear rubber gloves.

RESPIRATORY: A respiratory protection program that meets OSHA 1910.134 and ANSI 288.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

PROTECTIVE CLOTHING: Wear suitable protective clothing at all times.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: None

APPEARANCE: Clear, colorless liquid.

pH: 9

BOILING POINT: (220°F)

SOLUBILITY IN WATER: Complete

SPECIFIC GRAVITY: 1.150 to 1.25

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

11. TOXICOLOGICAL INFORMATION**12. ECOLOGICAL INFORMATION****13. DISPOSAL CONSIDERATIONS**

DISPOSAL METHOD: Consult appropriate federal, local regulations for disposal. Empty containers are subject to same regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not restricted by DOT

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt. %	CAS
Silver Nitrate	< 5	007761-88-8

16. OTHER INFORMATION

REASON FOR ISSUE: UPDATED FOR IMPORTER

APPROVED BY: P DAVIES

PREPARED BY: P DAVIES

TITLE: CEO

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