

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product (material) Name:** Silver Liquid. Catalogue # I004, I0041.  
**Other Names:** Colloidal Silver  
**Recommended Use:** For adhesion of SEM specimens.

**Supplier Name:** ProSciTech  
**Postal Address:** PO Box 111, Thuringowa Central Qld. 4817 Australia  
**Street Address:** 1/11 Carlton Street, Kirwan, Qld. 4817 Australia  
**Telephone Number:** (07) 4773 9444  
**Fax Number:** (07) 4773 2244  
**Emergency Contact:** (07) 4773 9444 8:30am – 5:00pm, Monday to Friday

## SECTION 2 - HAZARDS IDENTIFICATION

**Hazard Classification:** Hazardous according to criteria of NOHSC.  
**Risk Phrases:**  
**Safety Phrases:**

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

### SUBSTANCE:

**Chemical Identity:** Silver Liquid  
**Common Name(s):** Colloidal Silver  
**CAS Number(s):**

### MIXTURE:

Ingredients	Cas Number(s)	Proportion (%)
Silver	7440-22-4	60
Arcosolve PM	107-98-2	
Toluene	108-88-3	<10
Ethanol	64-17-5	
Ethyl Acetate	141-78-6	<4

## SECTION 4 - FIRST AID MEASURES

**Swallowed:** Do not induce vomiting. Never give anything by mouth to an unconscious person. If conscious give 2-4 cups full of milk or water. Seek immediate medical attention.

**Eye:** Flush with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation occurs or persists.

**Skin:** Wash area thoroughly with soap and water. Get medical attention if irritation develops or persists.

**Inhaled:** Remove person to fresh air. Get medical aid if cough or other symptoms appear.

**First Aid Facilities:** Eyebath, Safety shower.  
**Medical Attention & Special Treatment:**

ADDITIONAL INFORMATION:

## SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Carbon dioxide, foam, dry chemical, water.  
**Hazards from Combustion** Carbon dioxide, carbon monoxide.  
**Products:**  
**Precautions for Fire Fighters:** Wear self-contained breathing apparatus pressure demand (NIOSH/MSHA approved) and full protective gear.  
**Hazchem Code:**

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Emergency Procedures:**

**Containment and clean up:** Wear protective equipment. Stop the spill from release into the environment. Absorb with with an absorbent material (rags or paper) and store in a container for refinement or waste disposal.

### SECTION 7 - HANDLING & STORAGE

**Precautions for Safe Handling:** Use adequate ventilation, appropriate protective clothing and wash thoroughly after handling.

**Conditions for Safe Storage:** Keep container closed. Store at ambient or lower temperature.

### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards:** No exposure standard allocated.

**Biological Limit Values:** No biological limit allocated.

**Engineering Controls:** Use a general or local exhaust ventilation system.

**Personal Protective Equipment:** If needed use a NIOSH approved dust/mist respirator. Wear chemical gloves, protective clothing, shoes and safety glasses.

### SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

**Appearance:** Grey paste liquid.

**Odour:** Strong odour.

**pH:** Not available.

**Vapour pressure:** Not available.

**Vapour density:** Not available.

**Boiling point/range:** 75°C.

**Freezing/melting point:** Not available.

**Solubility:** Not available.

**Specific gravity or density:** Not available.

**Flash Point:** Not available.

**Flammable (explosive) limits:** Not available.

**Ignition temperature:** Not available.

**Additional Information:**

### SECTION 10 - STABILITY AND REACTIVITY

**Chemical stability:** Stable.

**Conditions to avoid:** Incompatible materials.

**Incompatible Materials:** Strong oxidisers, acids and alkali.

**Hazardous Decomposition Products:** Carbon dioxide carbon monoxide.

**Hazardous Reactions:**

### SECTION 11 - TOXICOLOGICAL INFORMATION

**Acute and chronic health effects:**

**Possible routes of exposure:** Skin/eye contact, ingestion, inhalation.

**Range of effects following exposure:** May cause irritation to the eyes and skin.

**Dose likely to cause injury:**

**Delayed effects:**

**Relevant negative data:**

### SECTION 12 – ECOLOGICAL INFORMATION

**Ecotoxicity:**

**Persistence and degradability:**

**Mobility:**

**Additional Information:**

### SECTION 13 - DISPOSAL CONSIDERATIONS

**Disposal Methods:** Contact a licenced waste disposal professional. Observe all Federal, State and Local Regulations. The material may be recycled to recover the precious metal.

**Special Precautions:**

**SECTION 14 - TRANSPORT INFORMATION**

**UN Number:** UN1993  
**UN Proper Shipping Name:** Flammable  
**Class and Subsidiary risk:** 3  
**Packing Group:** III  
**Special Precautions for User:**  
**Hazchem Code:**

**SECTION 15 - REGULATORY INFORMATION**

**Poison Schedule Number:** None allocated

**SECTION 16 - OTHER INFORMATION**

**Date of preparation of MSDS:** 24 September 2007

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