



## Section 1 - Chemical Product and Company Identification

|                     |   |
|---------------------|---|
| <b>Product Name</b> | Silver Nitrate for tissue culture, 99.5%  |
| <b>Product Code</b> | 91233   |
| <b>CAS No</b>       | 7761-88-8   |
| <b>Use for</b>      | Laboratory Chemicals.   |
| <b>Company Name</b> | Sisco Research Laboratories Pvt. Ltd.   |
| <b>Address</b>      | 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,<br>Andheri (E), Mumbai - 400 099, India |

## Section 2 - Composition/Information on Ingredients

| CAS#   | Chemical Name: | %      | EINECS#   |
|--|----------------|--------|-----------|
| 7761-88-8  | Silver Nitrate | <=100% | 231-853-9 |
| No components need to be disclosed according to the applicable regulations |                |        |           |

## Section 3 - Hazards Identification

### Risk advice to man and the environment

Causes burns. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Section 4 - First Aid Measures

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

Consult a physician.

### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.

## Section 5 - Fire Fighting Measures



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**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Specific hazards**

Container explosion may occur under fire conditions.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

## Section 6 - Accidental Release Measures

**Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Evacuate personnel to safe areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

**Methods for cleaning up**

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## Section 7 - Handling and Storage

**Handling**

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

**Storage**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Light sensitive.

## Section 8 - Exposure Control / Personal Protection



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## Personal protective equipment

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator

type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator.

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Hand protection

Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

### Eye protection

Safety glasses

### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Section 9 - Physical and Chemical Properties

|                    |                        |
|--------------------|------------------------|
| Physical State:    | Solid                  |
| Melting point:     | 212 °C (414 °F) - dec. |
| Molecular Formula: | AgNO <sub>3</sub>      |
| Molecular Weight:  | 169.87                 |

## Section 10 - Stability and Reactivity

### Storage stability

Stable under recommended storage conditions. Decomposes on exposure to light.

### Conditions to avoid

Light.

### Materials to avoid

Strong reducing agents, Alcohols, Ammonia, Magnesium, Strong bases

### Hazardous decomposition products

### Hazardous decomposition products formed under fire conditions.

Silver/silver oxides, nitrogen oxides (NO<sub>x</sub>)

## Section 11 - Toxicological Information



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### Acute toxicity

LD50 Oral - rat - 1.173 mg/kg

Remarks: Behavioral:Tetany. Cyanosis Diarrhoea

### Irritation and corrosion

Eyes - rabbit - Severe eye irritation

### Sensitisation

no data available

### Chronic exposure

Laboratory experiments have shown mutagenic effects.

### Signs and Symptoms of Exposure

May cause argyria (a slate-gray or bluish discoloration of the skin and deep tissues due to the deposit of

insoluble albuminate of silver)., Absorption into the body leads to the formation of methemoglobin which in

sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer.

### Potential Health Effects

**Inhalation** May be harmful if inhaled. Material is extremely destructive to the tissue of the

mucous membranes and upper respiratory tract.

**Skin** May be harmful if absorbed through skin. Causes skin burns.

**Eyes** Causes eye burns.

**Ingestion** May be harmful if swallowed. Causes burns.

**Target Organs** Eyes, Nerves., Blood, Lungs

## Section 12 - Ecological Information

No information available.

## Section 13 - Disposal Considerations

### Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product.

## Section 14 - Transport Information

|                | IATA           | IMO  | RID/ADR |
|----------------|----------------|------|---------|
| Shipping Name: | Silver Nitrate |      |         |
| Hazard Class:  | 5.1            | 5.1  | 5.1     |
| UN Number:     | 1493           | 1710 | 1710    |
| Packing Group: | II             | II   | II      |



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## **Section 15 - Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## **Section 16 - Other Information**

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.