

**Section 1. Identification****1.1 Product Identifier**

1789

Product Name SILVER NITRATE 0.282M

CAS Number Mixture

REACH Registration No A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.

**1.2 Relevant identified uses of the substance or mixture & uses advised against**

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

**1.3 Supplier**Grangefield Industrial Estate  
Richardshaw Road  
Pudsey  
West Yorkshire  
LS28 6QW  
UNITED KINGDOMPhone 44 113 2362811  
Fax +44(0)113 2362703  
Email safety@viclabs.co.uk  
Website www.viclabs.co.uk**1.4 Emergency Telephone**(08:00-16:30) 44 113 2362811  
(24hr) 112  
(Have this document to hand)**Section 2. Hazards Identification****2.1 Classification of the substance or mixture****Classification according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567**

Corrosive to metals, category 1

H290: May be corrosive to metals.

Skin corrosion/irritation, category 2

H315: Causes skin irritation.

Serious eye damage/irritation, category 1

H318: Causes serious eye damage.

Hazard to aquatic environment, category 1

H400: Very toxic to aquatic life.

Hazard to aquatic environment, category 1

H410: Very toxic to aquatic life with long lasting effects.

**2.2 Label elements****Labelling according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567**

Signal word Danger

Hazard Pictograms



Hazard Statements	Causes serious eye damage. Causes skin irritation. Very toxic to aquatic life with long lasting effects. May be corrosive to metals.
Precautionary Statements	Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

## Section 3. Composition

### 3.2 Mixtures

Component	CAS No.	EC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Silver Nitrate	7761-88-8	231-835-9		<5%	Ox. Sol. 2, Met. Corr. 1, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1

## Section 4. First Aid

### 4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION URGENTLY.
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If irritation persists or there is any sign of skin damage, seek IMMEDIATE MEDICAL ASSISTANCE
Inhalation	Remove from exposure.
Ingestion	If conscious give plenty of water to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

Extinguishing Media	Consider what other flammable materials are present and act accordingly.
Unsuitable Media	Nothing specified.

### 5.2 Special hazards arising from the substance or mixture

Hazards	Presents no specific fire danger.
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### 5.3 Advice for firefighters

Advice for firefighters	Consider all other materials in the vicinity.
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## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection	Use approved personal protective equipment. Evacuate area immediately. Do not allow other people to enter area. Do not allow general use of area until it is safe to do so.
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## 6.2 Environmental precautions

Environmental  
Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

## 6.3 Methods and material for containment and cleaning up

Major Spillage Contain spill with inert material. Wash area down with copious amounts of water.  
Minor Spillage Wash area down with copious amounts of water.

## 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.  
Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place protected against moisture and water. Keep well separated from acids, metals, explosives, organic peroxides and ignitable materials.

### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits	
			Long Term (8hr TWA)	Short Term 15min period)
Silver Nitrate	7761-88-8	<5%	-	0.01 ppm

Exposure data source(s) No hazardous components.

### 8.2 Exposure controls

Respiratory Protection In cases where a spray or mist may be formed, use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge respirator, or use self contained breathing apparatus.  
Hand Protection Use nitrile gloves or PVC gauntlets.  
Skin Protection If skin contact or contamination of clothing is likely, protective clothing must be worn.  
Special Hazards No special precautions required.

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance	Clear colourless liquid
Odour	Not available
pH	< 3 @ 20°C
Boiling Point	~100 °C
Melting Point	~0 °C
Flash Point	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	Not applicable
Oxidising Properties	Not applicable

Vapour Pressure	Not applicable
Relative Density	1.034
Water Solubility	Completely miscible in water.

## 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

<b>10.1</b> Reactivity	No data available.
<b>10.2</b> Chemical Stability	Stable under normal conditions
<b>10.3</b> Possibility of hazardous reactions	No data available.
<b>10.4</b> Conditions to Avoid	Exposure to light.
<b>10.5</b> Incompatible materials	No specific materials to avoid.
<b>10.6</b> Hazardous Decomposition Products	None.

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Eyes	The liquid will cause burns. Damage can range from severe irritation and corneal scarring to permanent blindness.
Skin	Causes skin irritation. Severe ulceration and scarring may occur in serious cases.
LD50 Skin	Not available
Ingestion	Ingestion may cause severe irritation of the mouth, throat and gastro-intestinal tract.
LD50 Oral	Not available
Inhalation	Presents no significant health hazard by inhalation.
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

## Section 12. Ecological

<b>12.1</b> Toxicity	Silver salts are harmful to the environment.
LC50 Algal	Not available
LC50 Crustacea	Not available
LC50 Fish	Not available
<b>12.2</b> Persistence and degradability	No data available.
<b>12.3</b> Bioaccumulative potential	No data available.
<b>12.4</b> Mobility in soil	No data available.
<b>12.5</b> Results of PBT & vPvB assessment	Assessment not required.
<b>12.6</b> Other adverse effects	None known at present.

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

Disposal Methods	Silver compounds are regarded as special waste and hence must go for controlled disposal.
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## Section 14. Transport Information

14.1 UN Number	1760
14.2 Proper Shipping Name	Corrosive liquid, N.O.S. (Silver Nitrate)
14.3 Transport classes	
UN classification	8
Subsidiary hazard(s)	None
Transport category	3
ADR Hazard ID	80
Tunnel Restriction Code	E
14.4 Packing Group	III
14.5 Environment hazards	See section 12.
14.6 Special precautions for user	No special precautions required.
14.7 Transport in bulk	Not transported in bulk.



## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for substance/mixture.

**Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE) as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567**

Classification	Corrosive to metals, category 1; Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 1; Hazard to aquatic environment, category 1; Hazard to aquatic environment, category 1
Signal word	Danger
Hazard Pictograms	 
Hazard Statements	H318, H315, H410, H290 Causes serious eye damage. Causes skin irritation. Very toxic to aquatic life with long lasting effects. May be corrosive to metals.
Precautionary Statements	P280, P264, P363, P301+P330+P331, P303+P361+P353, P305+P351+P338 Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

### 15.2 Chemical safety assessment

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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