# Vickers Laboratories Ltd - Safety Data Sheet

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(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021

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## **Section 1. Identification**

1.1 Product Identifier 2251

Product Name SILVER NITRATE SOLUTION (29.041g./L.)

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 Relevent identified uses of the substance or mixure & uses advised against

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

## 1.3 Supplier Vickers Laboratories Ltd



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(Have this document to hand)

## Section 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

#### Classification according to regulation 1272/2008/EC

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 2 H319: Causes serious eye irritation. 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 1272/2008/EC

Signal word Warning

Hazard Pictograms





Hazard Statements Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects. May be

corrosive to metals.

Precautionary Statements Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection / face protection. IF

IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

## Section 3. Composition

#### 3.2 Mixtures

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Silver Nitrate	7761-88-8	231-835-9		1.8%	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. If discomfort persists

OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water.

Personal protection for first Wear protective gloves / eye protection.

aiders

#### 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.

#### 5.3 Advice for firefighters

Advice for firefighters Consider all other materials in the vicinity.

## 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 general use of area until it

is safe to do so.

#### 6.2 Environmental precautions

Enviromental Keep 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 and absorb on inert material. Transfer absorbent to salvage container for removal. 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

No specific precautions.

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

Store in a cool dark place.

#### 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	1.8%	-	-	0.01 ppm -	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

### 8.2 Exposure controls

Respiratory Protection Presents no significant inhalation health hazard.

Hand Protection Use nitrile gloves or PVC gauntlets.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

If skin contact or contamination of clothing is likely, protective clothing must be worn. Skin Protection

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 No specific odour. 7 @ 20°C pН ~100 °C **Boiling Point** 

~0 °C

Melting Point Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable

**Explosive Properties** No. Oxidising Properties No.

Vapour Pressure Not applicable Relative Density

Water Solubility Completely soluble in water.

#### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

**10.1** Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

**10.3** Possibility of hazardous No data available.

reactions

**10.4** Conditions to Avoid Exposure to light.

**10.5** Incompatable Materials No specific materials to avoid.

10.6 Hazardous Decomposition None.

Products

## Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes Causes serious eye irritation.

Skin Causes blue/grey discolouration of the skin. Causes skin irritation.

LD50 Skin Not available

Ingestion Presents no significant hazard by ingestion.

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

**12.1** Toxicity Silver salts are harmful to the environment.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

12.2 Persistence and No data available.

degradability

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

12.5 Results of PBT & vPvB Assessment not required.

assessment

**12.6** 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.

Contaminated Packaging Wash out containers with water. Use a licensed waste disposer.

## **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

CORROSIVE 8

**14.5 Environment hazards** See section 12.

**14.6 Special precautions for** No special precautions required.

usei

**14.7 Transport in bulk** Not transported in bulk.

## Section 15. Regulatory Information

## $15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Corrosive to metals, category 1; Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 2;

Hazard to aquatic environment, category 1; Hazard to aquatic environment, category 1

Signal word Warning

Hazard Pictograms





Hazard Statements H315, H319, H410, H290

Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects. May be

corrosive to metals.

Precautionary Statements P264, P280, P305+P351+P338, P303+P361+P353

Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection / face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

#### 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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