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## MATERIAL SAFETY DATA SHEET

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

**Product name:** Silver Nitrate 99.9% ACS  
**CAS number:** 7761-88-8  
**EINECS number:** 231-853-9  
**Product code:** REA008  
**Brand:** Solmedia Ltd

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: PC21: Laboratory chemicals.

#### 1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Solmedia Ltd.  
- Address of Supplier: Unit 2, Vernon Drive  
Battlefield Enterprise Park  
Shrewsbury  
SY1 3TF  
UK  
- Telephone: 0844 80 80 900  
- Email: labsupplies@solmedialtd.com

#### 1.4 Emergency telephone number

Emergency Phone # +44 (0)844 80 80 900

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification under CLP:

Ox. Sol. 2: H272; Met. Corr. 1: H290; Skin Corr. 1B: H314; Aquatic  
Chronic 1: H410; Aquatic Acute 1: H400

##### Most important adverse effects:

May intensify fire; oxidiser. May be corrosive to metals. Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

**Hazard statements:** H272: May intensify fire; oxidiser.  
H290: May be corrosive to metals.  
H314: Causes severe skin burns and eye damage.  
H410: Very toxic to aquatic life with long lasting effects.

**Signal words:** Danger

**Hazard pictograms:** GHS03: Flame over circle  
GHS05: Corrosion  
GHS09: Environmental



**Precautionary statements:**

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220: Keep/Store away from clothing/combustible materials.

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370+378: In case of fire: Use dry powder or dry sand for extinction.

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**PBT:** This product is not identified as a PBT/vPvB substance

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

<b>Chemical identity:</b>	SILVER NITRATE
<b>CAS number:</b>	7761-88-8
<b>EINECS number:</b>	231-853-9
<b>Contains:</b>	Formula : AgNO <sub>3</sub> Molecular weight : 169.87 g/mol

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

<b>Ingestion:</b>	Do not induce vomiting. Wash out mouth with water. Consult a doctor.
<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

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

<b>Skin contact:</b>	No data available.
<b>Eye contact:</b>	Severe eye irritation.
<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Delayed / immediate effects:</b>	

No data available.

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

No data available

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.

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

Container explosion may occur under fire conditions.

#### 5.3 Advice for firefighters

Use water spray to cool unopened containers. Wear self-contained breathing apparatus

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### SECTION 6: Accidental release measures

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

#### 6.2 Environmental precautions

Do not discharge into drains or rivers.

#### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13).

#### 6.4 Reference to other sections

Refer to section 13 of SDS.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

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

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Light sensitive.

**Suitable packaging:** Not applicable.

#### 7.3 Specific end use(s)

No special requirement

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

State	8 hour TWA	15 min STEL	8 hour TWA	15 min. STEL
EU	0.01mg/m <sup>3</sup>	-	-	-

**DNEL / PNEC** No data available.

#### 8.2 Exposure controls

##### Engineering measures:

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

##### 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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection:**

Full contact      Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm  
Break through time: 480 min Splash contact  
Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm  
Break through time: 480 min Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.  
Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection:**

Face-shield. Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Environmental:**

Do not let product enter drains. Prevent from entering in public sewers or the immediate environment.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****State:**

Solid

**Colour:**

White

**Odour:**

Odourless

**Boiling point/range°C:**

440 °C

**Melting point/range°C:**

212 °C - dec.

**Part.coeff. n-octanol/water:**

log Pow: 5

**Relative density:**4.350 g/cm<sup>3</sup>**9.2 Other safety information**

Not applicable

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available

**10.2 Chemical stability**

Decomposes on exposure to light. Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

Light

**10.5 Incompatible materials**

Strong reducing agents. Alcohols. Ammonia. Magnesium. Strong bases.

**10.6 Hazardous decomposition products**

In combustion emits toxic fumes of nitrogen oxides. In combustion emits toxic fumes of silver/ silver oxides.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Relevant hazard for substance

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data

**Symptoms/ routes of exposure**

**Skin contact:** No data available.

**Eye contact:** Severe eye irritation.

**Ingestion:** No data available.

**Inhalation:** No data available.

**Delayed / immediate effects:**

No data available.

**Other information:** Not applicable.

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**SECTION 12: Ecological information****12.1 Toxicity**

Ecotoxicity values:

Species	Test	Value	Units
Fish	96H LC50	0.0012	mg/l
Daphnia	48H EC50	0.00121	mg/l
Algae	48H EC50	0.0099	mg/l

**12.2 Persistence and degradability**

No available data

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This product is not identified as a PBT/vPvB substance.

**12.6 Other adverse effects**

Very toxic to aquatic organisms.

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Disposal operations:**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Recovery operations:**

Not applicable.

**Disposal of packaging:**

Dispose of as unused product.

**NB:**

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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**SECTION 14: Transport information**

**14.1 UN number**

UN1493

**14.2 UN proper shipping name**

SILVER NITRATE

**14.3 Transport hazard class(es)**

5.1

**14.4 Packaging group**

II

**14.5 Environmental hazards**

**Environmentally Hazardous**

Yes

**Marine Pollutant**

No

**14.6 Special precautions for user**

**Tunnel code:**

E

**Transport category:**

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**SECTION 15: Regulatory information**



### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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## SECTION 16: Other information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

### Phrases used in s.2 and3:

H272: May intensify fire; oxidiser.

H290: May be corrosive to metals

H314: Causes severe skin burns and eye damage.

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

### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.