

# Trafalgar Chemicals - Safety Data Sheet

**1791-DH**

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

Revision: 1.1

Revision date:

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## Section 1. Identification

### 1.1 Product Identifier 1791-DH

Product Name SILVER NITRATE 0.1M (N/10) 2.5L.

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 Trafalgar Chemicals



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Email [info@trafalgarscientific.co.uk](mailto:info@trafalgarscientific.co.uk)

Website [www.trafalgarscientific.co.uk](http://www.trafalgarscientific.co.uk)

### 1.4 Emergency Telephone (08:00-17:00) +44(0) 116 2879460 (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 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 (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

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. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. If eye irritation persists: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. |

## 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 |           | >1%      | 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 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. |
|---------|-----------------------------------|

### 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

|               |                                                                                                                                                                      |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental | 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%           | -                         | - | 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.                             |
| 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                 | No specific odour.           |
| pH                    | Not applicable               |
| 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  | No.                          |
| Oxidising Properties  | No.                          |
| Vapour Pressure       | Not applicable               |
| Relative Density      | 1.0120                       |
| Water Solubility      | Completely soluble in water. |

#### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

**10.1**   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 may cause severe 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

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

## Section 14. Transport Information

|                                          |                                           |
|------------------------------------------|-------------------------------------------|
| <b>14.1 UN Number</b>                    | 1760                                      |
| <b>14.2 Proper Shipping Name</b>         | Corrosive liquid, N.O.S. (Silver Nitrate) |
| <b>14.3 Transport classes</b>            |                                           |
| UN classification                        | 8                                         |
| Subsidiary hazard(s)                     | None                                      |
| Transport category                       | 3                                         |
| ADR Hazard ID                            | 80                                        |
| Tunnel Restriction Code                  | E                                         |
| <b>14.4 Packing Group</b>                | III                                       |
| <b>14.5 Environment hazards</b>          | See section 12.                           |
| <b>14.6 Special precautions for user</b> | No special precautions required.          |
| <b>14.7 Transport in bulk</b>            | 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 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, P337+P313, P332+P313  
Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. If eye irritation persists: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention.

### 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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