

# Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.23.2018

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## Silver Chloride, Reagent Grade

### SECTION 1: Identification

#### Product identifier

**Product name:** Silver Chloride, Reagent Grade

**Product code:** S25524

#### Recommended use of the product and restriction on use

**Relevant identified uses:** Not determined or not applicable.

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

#### Manufacturer or supplier details

##### Manufacturer:

AquaPhoenix Scientific  
860 Gitts Run Road  
Hanover  
PA 17331  
(717) 632-1291

##### Supplier:

Fisher Science Education  
6771 Silver Crest Road  
Nazareth  
PA 18064  
800 955-1177

#### Emergency telephone number:

##### United States

Emergency Telephone No.: 800-255-3924

### SECTION 2: Hazard identification

#### GHS classification:

Corrosive to metals, category 1

Acute aquatic hazard, category 1

Chronic aquatic hazard, category 1

#### Label elements

##### Hazard pictograms:



**Signal word:** Warning

#### Hazard statements:

H290 May be corrosive to metals

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

#### Precautionary statements:

P234 Keep only in original container

P273 Avoid release to the environment

P390 Absorb spillage to prevent material damage

P391 Collect spillage

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P406 Store in corrosive resistant stainless steel container with a resistant inner liner  
P501 Dispose of contents and container as instructed in Section 13

**Hazards not otherwise classified:** None

### SECTION 3: Composition/information on ingredients

| Identification           | Name                 | Weight % |
|--------------------------|----------------------|----------|
| CAS number:<br>7783-90-6 | Silver Chloride, ACS | 100      |

**Additional Information:** None

### SECTION 4: First-aid measures

#### Description of first-aid measures

**General notes:**

Not determined or not available.

**After inhalation:**

Loosen clothing as necessary and position individual in a comfortable position  
Maintain an unobstructed airway

**After skin contact:**

Rinse affected area with soap and water  
If symptoms develop or persist, seek medical attention

**After eye contact:**

Rinse/flush exposed eye(s) gently using water for 15-20 minutes  
If symptoms develop or persist, seek medical attention

**After ingestion:**

Rinse mouth thoroughly  
Seek medical attention if irritation, discomfort, or vomiting persists

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

**Acute symptoms and effects:**

Not determined or not available.

**Delayed symptoms and effects:**

Not determined or not available.

#### Immediate medical attention and special treatment

**Specific treatment:**

Not determined or not available.

**Notes for the doctor:**

Not determined or not available.

### SECTION 5: Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media:**

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

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### Unsuitable extinguishing media:

Not determined or not applicable.

### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

### Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing  
Refer to Section 8

### Special precautions:

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols  
Avoid contact with skin, eyes and clothing

## SECTION 6: Accidental release measures

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

Ensure adequate ventilation  
Ensure air handling systems are operational  
Wear protective eye wear, gloves and clothing

### Environmental precautions:

Should not be released into the environment  
Prevent from reaching drains, sewer or waterway

### Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

### Reference to other sections:

Not determined or not applicable.

## SECTION 7: Handling and storage

### Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.  
Avoid breathing mist or vapor.

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

Store in a cool, well-ventilated area.

## SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

### Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

### Biological limit values:

No biological exposure limits noted for the ingredient(s).

### Information on monitoring procedures:

Not determined or not applicable.

### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

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### Personal protection equipment

#### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

#### Skin and body protection:

Select glove material impermeable and resistant to the substance.

#### Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

### General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

|   |   |
|---|---|
| <b>Appearance (physical state, color):</b>      | White solid   |
| <b>Odor:</b>                                    | Odorless  |
| <b>Odor threshold:</b>                          | Not determined or not available.  |
| <b>pH-value:</b>                                | ~6 (1% aq. sol.)  |
| <b>Melting/Freezing point:</b>                  | 455°C (851.00°F)  |
| <b>Boiling point/range:</b>                     | 1550°C (2,822°F)  |
| <b>Flash point:</b>                             | Not applicable  |
| <b>Evaporation rate:</b>                        | Not determined or not available.  |
| <b>Flammability (solid, gaseous):</b>           | Not applicable  |
| <b>Explosion limit upper:</b>                   | Not determined or not available.  |
| <b>Explosion limit lower:</b>                   | Not determined or not available.  |
| <b>Vapor pressure:</b>                          | Negligible at ambient temperatures; 1 Pa at 670°C, 10 Pa at 769°C, 100 Pa at 873°C, 1 kPa at 1052°C, 10 kPa at 1264°C and 100kPa at 1561°C. |
| <b>Vapor density:</b>                           | Not determined or not available.  |
| <b>Density:</b>                                 | 5.54 g/cm <sup>3</sup>  |
| <b>Relative density:</b>                        | 5.56 g/cm <sup>3</sup>  |
| <b>Solubilities:</b>                            | Soluble in water.; 1.9mg/L at 25°C.   |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined or not available.  |
| <b>Auto/Self-ignition temperature:</b>          | Not determined or not available.  |
| <b>Decomposition temperature:</b>               | Not determined or not available.  |
| <b>Dynamic viscosity:</b>                       | Not determined or not available.  |
| <b>Kinematic viscosity:</b>                     | Not determined or not available.  |
| <b>Explosive properties</b>                     | Not determined or not available.  |
| <b>Oxidizing properties</b>                     | Not determined or not available.  |

### Other information

## SECTION 10: Stability and reactivity

### Reactivity:

Does not react under normal conditions of use and storage.

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### Chemical stability:

Stable under normal conditions of use and storage.

### Possibility of hazardous reactions:

None under normal conditions of use and storage.

### Conditions to avoid:

Dust. Excess heat. Incompatible materials. Contamination. Heating to decomposition.

### Incompatible materials:

Ammonia, aluminum, bromine trifluoride, potassium sodium, and sodium peroxide+ charcoal.

### Hazardous decomposition products:

Chlorine, silver fumes.

## SECTION 11: Toxicological information

### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### Skin corrosion/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### Serious eye damage/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### Respiratory or skin sensitization

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

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**Product data:** No data available.

**Substance data:** No data available.

### Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**Information on likely routes of exposure:** No data available.

**Symptoms related to the physical, chemical and toxicological characteristics:** No data available.

**Other information:** No data available.

## SECTION 12: Ecological information

### Acute (short-term) toxicity

**Assessment:** Very toxic to aquatic life

**Product data:** No data available.

**Substance data:**

| Name                 | Result   |
|----------------------|--|
| Silver Chloride, ACS | LC50 - Fish - 96 H - 0.053 mg/l - 5.6 mg/l         |
|                      | LC50 - Crustaceans - 48 H - 0.103 mg/l - 1.13 mg/l |

### Chronic (long-term) toxicity

**Product data:** No data available.

**Substance data:** No data available.

### Persistence and degradability

**Product data:** No data available.

**Substance data:** No data available.

### Bioaccumulative potential

**Product data:** No data available.

**Substance data:** No data available.

### Mobility in soil

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.

## SECTION 13: Disposal considerations

### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

## SECTION 14: Transport information

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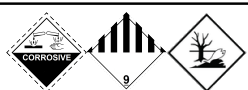
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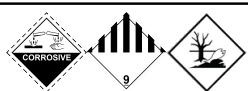
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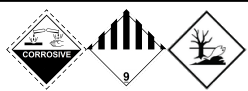
### Canadian Transportation of Dangerous Goods (TDG)

|                               |   |
|-------------------------------|---|
| UN number                     | UN1759  |
| UN proper shipping name       | Corrosive solid, n.o.s.   |
| UN transport hazard class(es) | 8 (9)  |
| Packing group                 | III   |
| Environmental hazards         | Marine Pollutant  |
| Special precautions for user  | None  |

### International Maritime Dangerous Goods (IMDG)

|                               |   |
|-------------------------------|---|
| UN number                     | UN1759  |
| UN proper shipping name       | Corrosive solid, n.o.s.   |
| UN transport hazard class(es) | 8 (9)  |
| Packing group                 | III   |
| Environmental hazards         | Marine Pollutant  |
| Special precautions for user  | None  |

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

|                               |   |
|-------------------------------|---|
| UN number                     | UN1759  |
| UN proper shipping name       | Corrosive solid, n.o.s.   |
| UN transport hazard class(es) | 8 (9)  |
| Packing group                 | III   |
| Environmental hazards         | Marine Pollutant  |
| Special precautions for user  | None  |

## SECTION 15: Regulatory information

### Canada regulations

#### Domestic substances list (DSL):

|           |                      |        |
|-----------|----------------------|--------|
| 7783-90-6 | Silver Chloride, ACS | Listed |
|-----------|----------------------|--------|

Non-domestic substances list (NDSL): Not determined.

## SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

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This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**NFPA:** 1-0-0-cor

**HMIS:** 1-0-0-X

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**End of Safety Data Sheet**