



Safety Data Sheet  
According to Regulation (EC) 1907/2006  
and (EU) 453/2010

## 1459 Silver Nitrate

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Name:

Silver Nitrate

**CAS:** [7761-88-8]

**REACH Registration Number:** 01-2119513705-43-XXXX

#### 1.2 Relevant identified uses of the substance or mixture:

For laboratory utilisation, analysis, research and fine chemistry.

#### 1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

#### 1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

### 2. Identification of dangers

#### 2.1 Classification of the substance or the mixture.

**Classification Regulation (CE) nº 1272/2008.**

Ox. Sol. 2

Skin Corr. 1B

Aquatic Acute 1

Aquatic Chronic 1

## Classification (67/548/CEE or 1999/45/CE).

<b>O</b> Oxidizing	R8
<b>C</b> Corrosive	R34
<b>N</b> Dangerous for the environment	R50/53

## 2.2 Label elements:

### Hazard Pictograms



### Signal word

Danger

### Hazard statements

H272 May intensify fire; oxidiser.

H314 Causes severe skin burns and eye damage.

H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

For the full text of the R-phrases mentioned in this section, see section 16.

## 2.3 Other hazards:

No further relevant information available.

## 3. Composition/information on ingredients

Name: Silver Nitrate

Formula: AgNO<sub>3</sub> M.= 169,87 CAS [7761-88-8]

EC number (EINECS): 231-853-9

EC index number: 047-001-00-2

REACH Registration Number: 01-2119513705-43-XXXX

## 4. First aid measures

#### **4.1 General indications:**

Never provide drink or induce vomiting in the event of loss of consciousness.

#### **4.2 Inhaling:**

Take the person out into the fresh air. In the event sickness persists, seek medical assistance.

#### **4.3 Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing. In the event of irritation, seek medical assistance.

#### **4.4 Eyes:**

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek immediate medical assistance.

#### **4.5 Swallowing:**

Drink large amounts of water. Avoid vomiting (there is a risk of perforation). Do not neutralize. Call for medical help.

### **5. Firefighting measures**

#### **5.1 Suitable extinguishing media:**

As appropriate to the environment.

#### **5.2 Unsuitable extinguishing media:**

No specific data.

#### **5.3 Special hazards arising from the substance or mixture:**

Incombustible. In the event of fire, toxic fumes may form: Encourages fire to break out. Keep away from combustible substances.

#### **5.4 Advice for firefighters:**

Suitable clothing and footwear.

### **6. Accidental release measures**

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

Avoid contact with the skin, eyes or clothing.

#### **6.2 Environmental precautions:**

Avoid pollution of the soil, water supplies and drains.

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

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

### **7. Handling and storage**

#### **7.1 Precautions for safe handling:**

No special indications.

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

Well sealed containers. Dry atmosphere. Keep away from flammable substances, sources of ignition and heat. Away from light.

**Recommended storage temperature:** Room temperature.

## **8. Exposure controls/personal protection**

### **8.1 Exposure controls:**

No special indications.

### **8.2 Control parameters:**

VLA-ED(Ag): 0,01 mg/m<sup>3</sup>

### **8.3 Respiratory protection:**

If dust forms, use suitable respiratory protection.

### **8.4 Hand protection:**

Use suitable gloves

### **8.5 Eye/face protection:**

Use safety glasses.

### **8.6 Individual hygiene measures:**

Remove contaminated clothing. Use suitable work clothing. Wash hands and face before breaks and when the job is done.

### **8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

## **9. Physical and chemical properties**

Appearance: solid

Colour: White

Granulometry: N/A

Odour: Odourless.

pH: 5,4 - 6,4

Melting point/freezing point: 212 °C

Initial boiling point and boiling range: 444 °C

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density:

Insertar Aquí Grupo de repetición

(20/4) 4,352 g/ml

Solubility: 2.150 g/l in water ( 20 °C )

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: above 440 °C

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

## **10. Stability and reactivity**

### **10.1 Conditions to avoid:**

The product is chemically stable under standar ambient conditions (room temperature).

### **10.2 Incompatible materials:**

Acetylene. Acetylides. Alcohols. Aldehydes. Ammonia. Alcohols. Heat (decomposition). Carbides. Ammoniacal compounds Organic compounds. Nitrogen organic compounds. Hydrazine and derivatives. Alkaline hydroxides. Magnesium. powdered with water Nitriles. Non-metals. Flammable substances.

### **10.3 Hazardous decomposition products:**

Nitrous fumes.

### **10.4 Chemical stability:**

No specific data.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD L0 oral rbt : 800 mg/kg

LD50 oral mus : 50 mg/kg

### **11.2 Dangerous effects for health:**

Upon contact with the skin: irritations burns Through contact with the eyes: irritations burns If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **12. Environmental information**

### **12.1 Toxicity:**

#### **- EC50 test (mg/l):**

Bacteria (Ps. putida) 0,006 mg/l

Classification:

Extr. toxic

Algae (Sc. quadricauda) 0,009 mg/l

Classification:

Extr. toxic

Algae (M. aeruginosa) 0,0007 mg/l

Classification:

Extr. toxic

Protozoa (U. parduczi). 0,1 mg/l

Classification:

Extr. toxic

Crustaceans (Daphnia magna) 0,004 mg/l

Classification:

Extr. toxic

#### **- Receptor medium:**

Risk for the water environment

High

Risk for the land environment

High

#### **- Observations:**

The ecotoxicity is due to the ion Ag+.

## **12.2 Persistence and Degradability :**

- **Test:**

- **Biotic degradation classification:**

BOD5/COD

Biodegradability

- **Abiotic degradation depending on pH:**

- **Observations:**

## **12.3 Bioaccumulative potential:**

- **Test:**

- **Bioaccumulation:**

Risk

- **Observations:**

## **12.4 Mobility in soil :**

Data not available.

## **12.5 Assessment PBT and MPMB :**

Data not available.

## **12.6 Other adverse effects:**

High pollutant product.

Do not allow it to enter soils or water channels.

## **13. Disposal considerations**

### **13.1 Waste treatment methods:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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### **13.2 Contaminated containers:**

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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## **14. Transport information**

Overland (ADR):

Technical name: SILVER NITRATE

UN 1493 Class: 5.1 PELIG.M.AMB Packaging group: II (E)

By sea (IMDG):

Technical name: SILVER NITRATE

UN 1493 Class: 5.1 PELIG.M.AMB Packaging group: II

By air (ICAI-IATA):

Technical name: Silver nitrate

UN 1493 Class: 5.1 PELIG.M.AMB Packaging group: II

Packaging instructions: CAO 562 PAX 558

## 15. Regulatory information

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

## 16. Other information

### Other precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use for extinction.

P391 Collect spillage.

P405 Store locked up.

### Labelling (65/548/CEE or 1999/45/CE)

- R-phrase(s):     **R8** Contact with combustible material may cause fire.  
                      **R34** Causes burns.  
                      **R50/53** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S-phrase(s):     **S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
                      **S36/37/39** Wear suitable protective clothing, gloves and eye/face protection.  
                      **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
                      **S60** This material and its container must be disposed of as hazardous waste.  
                      **S61** Avoid release to the environment. Refer to special instructions/safety data sheets.

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In respect of the previous review, changes have been made to the following sections: 15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.