

Safety Data Sheet  
According to Regulation (EC) 1907/2006



**3098 Silver Sulphate solution 10 g/l \*insulphuric acid**

**1. Identification of the substance/preparation and of the company or firm**

**1.1 Identification of the substance or preparation**

Name:

Silver Sulphate solution 10 g/l \*insulphuric acid

**Synonym:**

**REACH Registration Number:** A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

**1.2 Use of the substance/preparation:**

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**

Classification of the substance or the mixture.

**Classification Regulation (CE) n° 1272/2008.**

Skin Corr. 1A

**Hazard Pictograms**



**Signal word**

Danger

**Hazard statements**

H314 Causes severe skin burns and eye damage.

**Precautionary statements**

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

P264 Wash...thoroughly after handling.

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

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

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

C Corrosive

R35

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

**3. Component Composition/Information**

Name: Silver Sulphate solution 10 g/l \*insulphuric acid

Formula:  $\text{Ag}_2\text{SO}_4$  M.= 311,83

**Composition:****0001: Sulphuric Acid 93-98%**

Formula:  $\text{H}_2\text{SO}_4$  M.= 98,08 CAS [7664-93-9]

EC number (EINECS): 231-639-5

EC index number: 016-020-00-8

REACH Registration Number: 01-2119458838-20-XXXX

**Content:**  $\geq 95 \%$

**Classification Regulation (CE) n° 1272/2008.**

Skin Corr. 1A

**Hazard Pictograms****Signal word**

Danger

**Hazard statements**

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### **Precautionary statements**

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P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.  
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.  
P405 Store locked up.

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

**C** Corrosive

**R35** Causes severe burns.

## **4. First aid**

### **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. Take the product out with cotton wool soaked in polyethylene-glycol 400. 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). Seek immediate medical assistance.

## **5. Fire-fighting means**

### **5.1 Suitable fire-extinguishing means:**

As appropriate to the environment. Use atomized water to wash down any fumes given off.

### **5.2 Fire-fighting means which must NOT be used:**

No specific data.

### **5.3 Special risks:**

Incombustible. In the event of fire, toxic fumes may form: SO<sub>x</sub>. Upon contact with metals, hydrogen gas may form (there is a risk of explosion).

### **5.4 Protective equipment:**

Suitable clothing and footwear.

## **6. Measures to be taken in the event of accidental spillage**

### **6.1 Individual precautions:**

Do not inhale the fumes.

### **6.2 Precautions for care of the environment:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

### **6.3 Methods for collection/cleaning:**

Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water. Neutralize with diluted sodium hydroxide.

## **7. Handling and storage**

### **7.1 Handling:**

No special indications.

### **7.2 Storage:**

Well sealed containers. In well ventilated premises. Room temperature. Do not store in metal containers.

## **8. Staff exposure/protection controls**

### **8.1 Technical protective measures:**

Ensure good ventilation and renewal of the air in the premises.

### **8.2 Exposure limit control:**

: Data not available.

MAK (H<sub>2</sub>SO<sub>4</sub>) ; 1 mg/m<sup>3</sup>

### **8.3 Respiratory protection:**

In the event of fumes forming/aerosols, use suitable respiratory protection.

### **8.4 Hand protection:**

Use suitable gloves

### **8.5 Eye protection:**

Use suitable goggles.

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

Remove contaminated clothing. Use suitable work clothing. Wash hands 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: N/A  
Colour:  
N/A  
Granulometry: N/A  
Odour: Odourless.  
pH:  
N/A  
Melting point/freezing point: N/A  
Initial boiling point and boiling range:  
N/A  
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: (20/4) 1,84  
Solubility: in Miscible with water  
Partition coefficient: n-octanol/water:  
N/A  
Auto-ignition temperature:  
N/A  
Decomposition temperature: >340 °C  
Viscosity: N/A

## 10. Stability and reactivity

### 10.1 Conditions which should be avoided:

High temperatures.

### 10.2 Matter which should be avoided:

Water. (Caution! Heat is generated). Alkaline compounds. Alkaline metals. Ammonia. Alkali-earth compounds. Alkaline solutions. Acids. Metals and metal alloys. Phosphorus. Phosphorus Oxides. Hydrides. Halogen halides. Salts of oxyhalogenic acids. Nitrates. Carbides. Organic solvents. Flammable substances. Acetylides. Nitriles. Nitrogen organic compounds. Anilines. Peroxides. Picrates. Nitrides. Lithium silicide.

### 10.3 Hazardous decomposition products:

SO<sub>x</sub>.

### 10.4 Complementary information:

Light-sensitive.

## 11. Toxicological information

### 11.1 Acute toxicity:

: Data not available.

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

Taking the preparation's components into account, the likely dangerous characteristics are as follows: If fumes inhaled: Irritations to the respiratory tracts. Very corrosive substance. Upon contact with the skin: Causes burns Through contact with the eyes: burns sight disorders If swallowed: Burns in the digestive apparatus Severe pains, with risk of perforation. Can cause nausea vomiting diarrhoea After a period of latency: pylorostenosis. Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **12. Environmental information**

### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Fish (H<sub>2</sub>SO<sub>4</sub>) 1,2 mg/l

Classification:

Extr. toxic

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

Classification: Extr. toxic

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

Classification: Extr. toxic

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

Classification: Extr. toxic

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

Classification: Extr. toxic

Crustaceans (*Daphnia magna*) (Ag+) 0,004 mg/l

Classification: Extr. toxic

12.1.2. - Receptor medium:

Risk for the water environment

High

Risk for the land environment

High

12.1.3. - Observations:

The ecotoxicity is due to the ion Ag+.

The ecotoxicity is due to the pH deviation.

### **12.2 Persistence and Degradability :**

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

### **12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

### **12.4 Mobility in soil :**

Data not available.

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

Data not available.

## **12.6 Other possible effects on the environment:**

High pollutant product.

Do not allow it to enter soils or water channels.

DATA BASED on the components of the preparation.

## **13. Considerations regarding elimination**

### **13.1 Substance or preparation:**

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. Information concerning transport**

Overland (ADR):

Technical name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

UN 3264 Class: 8 CONTAM. MAR Packaging group: II (E)

By sea (IMDG):

Technical name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

UN 3264 Class: 8 CONTAM. MAR Packaging group: II

By air (ICAI-IATA):

Technical name: Corrosive liquid, acidic, inorganic, n.o.s.

UN 3264 Class: 8 CONTAM. MAR Packaging group: II

Packaging instructions: CAO 855 PAX 851

## **15. Regulatory information**

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

## **16. Other information**

### **Other precautionary statements**

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.

P405 Store locked up.

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

R-phrase(s):     **R35** Causes severe burns.

S-phrase(s):     **S45** In case of accident or if you feel unwell,  
seek medical advice immediately (show the label  
where possible).  
**S36/37/39** Wear suitable protective clothing,  
gloves and eye/face protection.  
**S30** Never add water to this product.  
**S26** In case of contact with eyes, rinse  
immediately with plenty of water and seek  
medical advice.

Review number and date: 3 3.11.10

Date published: 3.11.10

In respect of the previous review, changes have been made to the following  
sections: 2, 3, 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.