



# SAFETY DATA SHEET SDS/MSDS

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**SILVER NITRATE**  
**MSDS CAS: 007761-88-8**

**32215**

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

### 1.1. Product identifier

Trade name : SILVER NITRATE  
Product code : 32215  
Identification of the product : silver nitrate  
CAS No : 7761-88-8  
EC No : 231-853-9  
Annex No : 047-001-00-2

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

Use : Laboratory. For professional use only.

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

Company identification : BIOCHEM CHEMOPHARAMA France  
82 AV du 85eme de ligne 58200 Cosne Sur Loire  
FRANCE  
Tel : +33 3.86.27.24.96

### 1.4. Emergency telephone number

Phone nr : +33 3.86.27.24.96 (9:00am – 4:15pm)

## 2. Hazards identification -DSD

### 2.1. Classification of the substance or mixture

#### Classification EC 67/548 or EC 1999/45

Classification : C; R34  
N; R50-53

#### Hazard Class and Category Code(s). Regulation (EC) No 1272/2008 (CLP)

Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1) H400

### 2.2. Label elements

#### Labelling EC 67/548 or EC 1999/45

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**2. Hazards identification -DSD (continued)**

**Symbol(s)**



**Symbol(s)**

: O : Oxidizing  
C : Corrosive  
N : Dangerous for the environment

**R Phrase(s)**

:  
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 when 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.

**Contains**

: silver nitrate

**Labelling Regulation EC 1272/2008 (CLP)**

**Hazard pictograms**



**Signal words**

: Warning

**Hazard statements**

: H400 : Very toxic to aquatic life.

**Precautionary statements**

• **Prevention**

: P273: Avoid release to the environment.

• **Response**

: P391: Collect spillage.

• **Disposal considerations**

: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Contains**

: silver nitrate

**2.3. Other hazards**

**Other hazards**

: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.



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### 3. Composition/information on ingredients

**Substance / Preparation** : silver nitrate  
CAS No :7761-88-8  
EC No :231-853-9  
Annex No :047-001-00-2  
Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
silver nitrate	: 100 %	7761-88-8	231-853-9	047-001-00-2	----	C; R34 N; R50-53 ----- Aquatic Acute 1 _ H400

Contains no other components or impurities which will influence the classification of the product.

### 4. First aid measures

#### 4.1. Description of first aid measures

**Inhalation** : Assure fresh air breathing. Allow the victim to rest.  
**Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.  
**Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.  
**Ingestion** : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

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

**Symptoms relating to use** : Not expected to present a significant hazard under anticipated conditions of normal use.

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

**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

### 5. Fire-fighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
**Unsuitable extinguishing media** : Do not use a heavy water stream.  
**Surrounding fires** : Use water spray or fog for cooling exposed containers.

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

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

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## 5. Fire-fighting measures (continued)

### 5.3. Advice for fire-fighters

- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

## 6. Accidental release measures

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

- For emergency responders** : Equip cleanup crew with proper protection. Ventilate area.
- For non-emergency personnel** : Evacuate unnecessary personnel.

### 6.2. Environmental precautions

- Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

## 7. Handling and storage

### 7.1. Precautions for safe handling

- Handling** : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
- Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

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

- Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
- Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

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## 7. Handling and storage (continued)

### 7.3. Specific end use(s)

Specific end use(s) : None.

## 8. Exposure controls/personal protection

### 8.1. Exposure controls

**Personal protection** : Avoid all unnecessary exposure.

- **Respiratory protection** : Wear approved mask.
- **Hand protection** : Wear protective gloves.
- **Eye protection** : Chemical goggles or safety glasses.
- **Others** : When using, do not eat, drink or smoke.

### 8.2. Control parameters

Occupational Exposure Limits : No data available.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state at 20 °C** : Solid.

**Colour** : White crystalline

**Odour** : Odorless

**Odour threshold** : No data available.

**pH value** : No data available.

**Melting point [°C]** : 212 °C

**Decomposition point [°C]** : N/A

**Critical temperature [°C]** : N/A

**Auto-ignition temperature [°C]** : N/A

**Flammability (solid, gas)** : N/A

**Flash point [°C]** : N/A

**Boiling point [°C]** : 440 °C

**Initial boiling point [°C]** : N/A

**Final boiling point [°C]** : N/A

**Evaporation rate** : N/A

**Vapour pressure [20°C]** : N/A

**Vapour pressure mm/Hg** : N/A

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Vapour density	: 4,4
Density [g/cm <sup>3</sup> ]	: 4,352
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: 219g/100g water @ 20
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 6
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A

**9.2. Other information**

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

**10. Stability and reactivity****10.1. Reactivity**

Reactivity : Not established.

**10.2. Chemical stability**

Chemical stability : Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions : Not established.

**10.4. Conditions to avoid**

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Materials to avoid : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

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## 11. Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

- Inhalation : Based on available data, the classification criteria are not met.
- Dermal : Based on available data, the classification criteria are not met.
- Ingestion : Based on available data, the classification criteria are not met.

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

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

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

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

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

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

## 12. Ecological information

### 12.1. Toxicity

Toxicity information : Very toxic to aquatic life.

### 12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

### 12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

### 12.4. Mobility in soil

Mobility in soil : Not established.

### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### 12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

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**13. Disposal considerations**

**13.1. Waste treatment methods**

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.  
Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**14. Transport information**

**14.1. Land transport (ADR-RID)**

**Proper shipping name** : SILVER NITRATE  
**UN N°** : 1493  
**H.I. nr** :50  
**ADR - Class** : 5.1  
**Labelling - Transport** : 5.1 : Oxidizing substances.



**ADR - Classification code** :O2  
**ADR - Group** :II  
**ADR - Packing instructions** : P002  
**ADR - Limited Quantity** : 1 KG  
**ADR - Tunnel code** : E : Passage forbidden through tunnels of category E.



**14.2. Sea transport (IMDG) [English only]**

**Proper shipping name** : SILVER NITRATE  
**UN N°** : 1493  
**IMO-IMDG - Class or division** : 5.1 : Oxidizing substances.  
**IMO-IMDG - Packing group** :II  
**IMO-IMDG - Packing instructions** : P002  
**IMO-IMDG - Limited quantities** : 1 kg  
**IMO-IMDG - Marine pollution** : Yes  
**EMS-Nr** : F-A S-Q





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Proper shipping name : SILVER NITRATE  
UN N° : 1493  
IATA - Class or division : 5.1 : Oxidizing substances.  
IATA - Packing group : II  
IATA - Passenger and Cargo Aircraft : ALLOWED  
- Passenger and Cargo - Packing instruction : 558  
- Passenger and Cargo - Maximum Quantity/Packing : 5 kg  
IATA - Cargo only : ALLOWED  
- Cargo only - Packing instruction : 562  
- Cargo only - Maximum Quantity/Packing : 25 kg  
IATA - Limited Quantities : 2.5 kg  
ERG-Nr : 5L

**15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.  
REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.  
REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

**15.2. Chemical Safety Assessment**


Chemical Safety Assessment : It has not been carried out.

**16. Other information**

Revision : Revision - See : \*  
Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.  
vPvB: very persistent and very bioaccumulative  
Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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**16. Other information (continued)**

**List of relevant R phrases (heading 3) :** R34 : Causes burns.  
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**List of full text of H-statements in section 3 :** H400 : Very toxic to aquatic life.

**Further information :** None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

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