

according to Regulation (EC) No 1907/2006

# Silver nitrate solution 0.5 mol/l - 0.5 N solution titrant for METROHM

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Silver nitrate solution 0.5 mol/l - 0.5 N solution titrant for METROHM

UFI: F16W-H2AD-500V-HT59

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

#### Use of the substance/mixture

Reagents and laboratory chemicals

Only for laboratory and analysis purposes.

#### Uses advised against

Do not use for private purposes (household).

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

Company name: AnalytiChem GmbH

ACD

Street: Stempelstraße 6
Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290

E-mail: info@analytichem.de

Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de

Responsible Department: Abteilung Produktsicherheit

1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

<u>number:</u> Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada:

1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls

accepted)

## **Further Information**

This product is a mixture. REACH Registration Number see section 3.

#### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

# Regulation (EC) No 1272/2008

## Hazard components for labelling

silver nitrate

Signal word: Danger

Pictograms:







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#### **Hazard statements**

H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

## **Precautionary statements**

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

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

# P310 **2.3. Other hazards**

No data available

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

#### **Chemical characterization**

Mixtures in aqueous solution

#### Relevant ingredients

| CAS No    | Chemical name  |          |          | Quantity |
|-----------|--|----------|----------|----------|
|           | EC No  | Index No | REACH No |          |
|           | Classification (Regulation (EC) No 1272/2008)  |          |          |          |
| 7761-88-8 | silver nitrate   |          |          |          |
|           | 231-853-9  |          |          |          |
|           | Ox. Sol. 2, Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H272 H290 H314 H318 H400 H410 |          |          |          |

Full text of H and EUH statements: see section 16.

# Specific Conc. Limits, M-factors and ATE

| CAS No    | EC No  | No Chemical name |            |  |
|-----------|--|------------------|------------|--|
|           | Specific Conc. Limits, M-factors and ATE   |                  |            |  |
| 7761-88-8 | 231-853-9  | silver nitrate   | 5 - < 10 % |  |
|           | dermal: LD50 = > 348 mg/kg; oral: LD50 = > 2000 mg/kg Aquatic Acute 1; H400: M=1000 Aquatic Chronic 1; H410: M=100 |                  |            |  |

## **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

# **General information**

First aider: Pay attention to self-protection!

# After inhalation

Provide fresh air.

Call a physician immediately.

# After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.



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Call a physician immediately.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

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

Protect uninjured eye.

# After ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk.

Call a physician immediately.

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

Causes burns.

Irritant

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

No data available

# **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

## Unsuitable extinguishing media

no restriction

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

Non-combustible liquids

Hazardous combustion products

In case of fire may be liberated:

Nitrogen oxides (NOx)

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

In case of fire and/or explosion do not breathe fumes.

Avoid contact with skin, eyes and clothes.

# **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

#### **SECTION 6: Accidental release measures**

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

# For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

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

# For emergency responders

Precautionary statements For emergency responders: Personal protection equipment: see section 8



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## 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation.

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

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

## Advice on safe handling

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Use personal protection equipment.

Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Do not breathe vapour/aerosol.

## Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

## Further information on handling

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

Take off immediately all contaminated clothing and wash it before reuse.

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

# Requirements for storage rooms and vessels

Unsuitable container/equipment material: Metal

Protect against: Light

# Hints on joint storage

national regulations

## Further information on storage conditions

Keep container tightly closed.

# 7.3. Specific end use(s)

Laboratory chemicals



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## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

## **DNEL/DMEL values**

| CAS No                   | Substance      |                |          |                      |
|--------------------------|----------------|----------------|----------|----------------------|
| DNEL type                |                | Exposure route | Effect   | Value                |
| 7761-88-8                | silver nitrate |                |          |                      |
| Worker DNEL, long-term   |                | inhalation     | systemic | 0,016 mg/m³          |
| Consumer DNEL, long-term |                | inhalation     | systemic | 0,006 mg/m³          |
| Consumer DNEL, long-term |                | oral           | systemic | 0,02 mg/kg<br>bw/day |

#### **PNEC values**

| CAS No   | Substance                     |              |  |
|--|-------------------------------|--------------|--|
| Environmenta                                     | Environmental compartment Val |              |  |
| 7761-88-8  | silver nitrate                |              |  |
| Freshwater                                       |                               | 0,00004 mg/l |  |
| Marine water                                     |                               | 0,00086 mg/l |  |
| Freshwater s                                     | ediment                       | 438,13 mg/kg |  |
| Marine sediment                                  |                               | 438,13 mg/kg |  |
| Micro-organisms in sewage treatment plants (STP) |                               | 0,025 mg/l   |  |
| Soil   | 1,41 mg/kg                    |              |  |

# 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

## Individual protection measures, such as personal protective equipment

# Eye/face protection

goggles

Wear eye/face protection.

## Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11mm Wearing time with permanent contact: >480min

By short-term hand contact

Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11mm Wearing time with occasional contact (splashes): >480min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and



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under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

## Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: colourless
Odour: odourless

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

No data available

boiling range:

No data available Flammability: No data available Lower explosion limits: No data available Upper explosion limits: No data available Flash point: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available pH-Value: No data available Viscosity / kinematic: completely miscible Water solubility:

Solubility in other solvents

No data available

Partition coefficient n-octanol/water:

Vapour pressure:

Vapour pressure:

No data available

1,069 g/cm³

Bulk density:

No data available

Relative vapour density:

No data available

# 9.2. Other information

# Information with regard to physical hazard classes

Explosive properties

No data available

Sustained combustibility: No data available

Self-ignition temperature

Solid: No data available
Gas: No data available

Oxidizing properties
Oxidizing

# Other safety characteristics



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Evaporation rate:

Solvent separation test:

No data available

Solvent content:

No data available

Solid content:

O

Sublimation point:

No data available

Sublimation point:

Softening point:

No data available

No data available

Pour point:

No data available

No data available:

Viscosity / dynamic: No data available Flow time: No data available

Further Information
No data available

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Corrosive to metals.

## 10.2. Chemical stability

Protect against: Light

# 10.3. Possibility of hazardous reactions

Alkali (lye)

# 10.4. Conditions to avoid

Light

# 10.5. Incompatible materials

Metal

# 10.6. Hazardous decomposition products

In case of fire may be liberated: SECTION 5: Firefighting measures

#### **Further information**

No data available

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity**

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

# ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No    | Chemical name  |               |        |         |   |                    |
|-----------|----------------|---------------|--------|---------|---|--------------------|
|           | Exposure route | Dose          |        | Species | Source                                      | Method             |
| 7761-88-8 | silver nitrate |               |        |         |   |                    |
|           | oral           | LD50<br>mg/kg | > 2000 | Rat     | Study report (1993)                         | OECD Guideline 401 |
|           | dermal         | LD50<br>mg/kg | > 348  | . •     | J. Vet. Med. Sci.73:<br>1417 - 1423. (2011) | OECD Guideline 434 |



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#### Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage. Serious eye damage/eye irritation: Causes serious eye damage.

## Sensitising effects

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

## Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: 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.

#### Specific effects in experiment on an animal

There are no data available on the mixture itself.

## Additional information on tests

There are no data available on the mixture itself.

## **Practical experience**

There are no data available on the mixture itself.

## 11.2. Information on other hazards

#### Other information

There are no data available on the mixture itself.

#### **Further information**

There are no data available on the mixture itself.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.



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| CAS No    | Chemical name            |                   |           |           |                                    |  |  |
|-----------|--------------------------|-------------------|-----------|-----------|------------------------------------|--|--|
|           | Aquatic toxicity         | Dose              |           | [h]   [d] | Species                            | Source   | Method   |
| 7761-88-8 | silver nitrate           |                   |           |           |                                    |  |  |
|           | Acute fish toxicity      | LC50<br>mg/l      | 0,0012    | 1         | Pimephales<br>promelas             | Environmental<br>Toxicology and<br>Chemistry.  | A guideline was not specified. The test        |
|           | Acute algae toxicity     | ErC50<br>mg/l     | 0,0099    | 96 h      | Pseudokirchneriella<br>subcapitata | Environmental<br>Science and<br>Technology. 44 | eline: U.S.<br>Environmental<br>Protection Age |
|           | Acute crustacea toxicity | EC50<br>mg/l      | 0,00022   | 48 h      | Daphnia magna                      | Environmental<br>Toxicology and<br>Chemistry.  | The protective effect of reactive sulphi       |
|           | Fish toxicity            | NOEC<br>0,00125 n | ><br>ng/l | 73 d      | Oncorhynchus mykiss                | Environmental<br>Toxicology and<br>Chemistry 2 | other: ASTM<br>1241-98                         |
|           | Algae toxicity           | NOEC<br>mg/l      | 0,0012    | 14 d      | Champia parvula                    | in Bishop WE,<br>Cardwell RD<br>Heidolph BB (E | The toxicity tests lasted 11 days for th       |
|           | Crustacea toxicity       | NOEC<br>mg/l      | 0,00031   | 20 d      | Isonychia bicolour                 | Environmental<br>Toxicology and<br>Chemistry.  | 20 day sublethal effects on representati       |

## 12.2. Persistence and degradability

There are no data available on the mixture itself.

## 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

## **BCF**

| CAS No    | Chemical name  | BCF | Species         | Source              |
|-----------|----------------|-----|-----------------|---------------------|
| 7761-88-8 | silver nitrate | 70  | Cyprinus carpio | Water, Air and Soil |

# 12.4. Mobility in soil

There are no data available on the mixture itself.

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7. Other adverse effects

There are no data available on the mixture itself.

## **Further information**

Do not allow to enter into surface water or drains.

Discharge into the environment must be avoided.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

# **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.



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# Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 1760

14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (silver nitrate)

14.3. Transport hazard class(es): 14.4. Packing group: Ш Hazard label: 8 C9 Classification code: 274 **Special Provisions:** 1 L Limited quantity: F2 Excepted quantity: 2 Transport category: 80 Hazard No: Ε Tunnel restriction code:

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1760

14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (silver nitrate)

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Classification code:C9Special Provisions:274Limited quantity:1 LExcepted quantity:E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1760

14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (silver nitrate)

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Special Provisions:274Limited quantity:1 LExcepted quantity:E2EmS:F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** UN 1760

14.2. UN proper shipping name: CORROSIVE LIQUID, N.O.S. (silver nitrate)

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Special Provisions:A3 A803Limited quantity Passenger:0.5 LPassenger LQ:Y840Excepted quantity:E2

IATA-packing instructions - Passenger: 851
IATA-max. quantity - Passenger: 1 L



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IATA-packing instructions - Cargo: 855
IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: silver nitrate

# **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Information according to Directive

2012/18/EU (SEVESO III):

E1 Hazardous to the Aquatic Environment

**National regulatory information** 

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

#### **SECTION 16: Other information**

## Changes

This data sheet contains changes from the previous version in section(s): 1,9,12.

# Abbreviations and acronyms

Ox. Sol. 2: Oxidising solids, hazard category 2
Met. Corr. 1: Corrosive to metals, hazard category 1
Skin Corr. 1B: Skin corrosion, sub-category 1B
Eye Dam. 1: Serious eye damage, hazard category 1

Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1

# Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Skin Corr. 1B; H314     | Calculation method       |
| Eye Dam. 1; H318        | Calculation method       |
| Aquatic Acute 1; H400   | Calculation method       |
| Aquatic Chronic 1; H410 | Calculation method       |

#### Relevant H and EUH statements (number and full text)

| H272 | May intensify fire; oxidiser. |
|------|-------------------------------|
| H290 | May be corrosive to metals.   |

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

# **Further Information**

Provide appropriate information, instructions and training to users

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be



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transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)