

Revision date: 28.02.2020
Replacement of version 0016 of 07.01.2019

Version: 0017



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

1.1 Product identifier

| | |
|--------------------|---|
| Trade name | ArgentQuick, Silver Staining Kit Staining Solution B |
| Product number | anam0022 |
| Item code | GF10012 |
| Formulation | Färbelsg B |
| Formulation number | 11/05 |

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

Appropriate use:
The product is used for electrophoresis in analytical laboratories.

1.3 Details of the supplier of the safety data sheet

anamed Elektrophorese GmbH
Ringstraße 4
D-64401 Gross-Bieberau
Telephone: +49-6162-809840
e-mail-address of the competent person responsible for this Safety Data Sheet:
urban-finking.gefstoff@t-online.de

Technical contact:

anamed Elektrophorese GmbH
Frau Dr. Vera Kreis
Telephone +49-6162-809840
Fax +49-6162-8098420

1.4 Emergency telephone number

Poison Control Center Mainz (Giftinformationszentrum Mainz) or local poison centers
Telephone +49-6131 19 2 40

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Met. Corr. 1; H290
Skin Corr. 1B; H314
Eye Dam. 1; H318
STOT SE 3; H335

| | | |
|----------------------|---|---------------------------|
| Trade name: | ArgentQuick, Silver Staining Kit Staining Solution B | |
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| Telephone: | +49-6162-809840 | Revision date: 28.02.2020 |
| Product number: | anam0022 | |

2.2 Label elements

Hazard pictogram(s):



| | | |
|----------------------------------|--|--|
| Signal word(s): | Danger | |
| Product identifier: | ArgentQuick, Silver Staining Kit Staining Solution B contains ammonia 7.8%, sodium hydroxide | |
| Hazard statements: | H290 H314 H335 | May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. |
| Precautionary statements: | P280 P301 + P330 + P331 P304 + P340 P303 + 361 + P353 P305 + P351 + P338 P310 P501 | Wear protective gloves/protective clothing/eye protection/ face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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. Dispose of contents/container to approved waste disposal company or hazardous waste disposal. |
| Supplemental hazard information: | Not required. | |
| Remark: | <ul style="list-style-type: none"> - According to Annex I section 1.5.2 of Regulation (EC) No 1272/2008, the hazard statements and the precautionary statements linked to the hazard category "Specific target organ toxicity – single exposure of category 3" may be omitted from the label elements required by Article 17 where the contents of the package do not exceed 125 ml and if the mixture is not supplied to the general public. - According to Annex I section 1.5.2 of Regulation (EC) No 1272/2008, the hazard statement linked to the hazard category "Corrosive to metals" may be omitted from the label elements required by Article 17 where the contents of the package do not exceed 125 ml. - The precautionary statement P501 may be omitted from the label elements required by Articles 17 and 28 if the mixture is not supplied to the general public. | |

2.3 Other hazards

The product is classified as obviously hazardous to water. The product is a strong alkaline solution. The criteria for identifying substances as PBT and vPvB set out in Annex XIII of Regulation (EC) No 1907/2006 shall not apply to inorganic substances.

SECTION 3: Composition/information on ingredients

| | | |
|-----|----------------------------|----------------------------|
| 3.2 | Mixtures | Staining Solution B |
| | REACH registration number: | |
| | - Sodium hydroxide: | 01-2119457892-27-XXXX |

3.2.1 Characterisation

Product consists of an aqueous solution for gel staining containing special substances.

3.2.2 Substances presenting a health/environmental hazard within the meaning of Regulation (EC) No 1272/2008

| CAS No | EC No | Identification | % by weight | Classification |
|-----------|-----------|------------------|-------------|--|
| 1310-73-2 | 215-185-5 | sodium hydroxide | > 0.5 - < 2 | Met. Corr. 1; H290 Skin Corr. 1A; H314 |
| 1336-21-6 | 231-635-3 | ammonia | > 5 - < 10 | Skin Corr. 1B; H314 Aquatic Acute 1; H400 |

See subsection 2.2 for further details. Full text of the hazard statements see subsection 16.2.

| | | |
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3.2.3 Substances for which Union workplace exposure limits have been assigned and which are not already included under point 3.2.2 (see also Section 8.)

No substances.

3.2.4 Additional information

Specific concentration limits for ammonia in accordance with Annex VI of Regulation (CE) No 1272/2008:

STOT SE 3: C ≥ 5%

Specific concentration limits for sodium hydroxide in accordance with Annex VI of Regulation (CE) No 1272/2008:

Skin Corr. 1B: 2% ≤ C < 5%

Skin Irrit. 2: 0.5% ≤ C < 2%

Skin Corr. 1A: C ≥ 5%

Eye Irrit. 2: 0.5% ≤ C < 2%

SECTION 4: First aid measures

4.1 Description of first aid measures

4.1.1 General information

Remove contaminated clothing immediately and wash before reuse.

In the immediate working surroundings emergency shower and eye wash must be installed.

Label their location conspicuously.

4.1.2 In case of inhalation

Remove the casualty into fresh air.

In the event of symptoms take medical treatment.

4.1.3 In case of contact with skin

In case of contact with skin rinse thoroughly with plenty of water.

Take medical treatment.

4.1.4 In case of contact with eyes

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

Remove contact lenses, if present and easy to do.

4.1.5 In case of ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting.

Let water be swallowed in little sips (dilution effect).

Take medical treatment immediately.

4.2 Most important symptoms and effects, both acute and delayed

After swallowing: mucosal irritations, gastric pain, bloody vomiting. Risk of perforation in the oesophagus and stomach.

After inhalation: coughing, bronchitis, pulmonary oedema.

The product causes burns.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

The product itself is not combustible. Extinguishing materials should be selected according to the surrounding area.

5.1.2 Unsuitable extinguishing media

The product itself is not combustible. Extinguishing materials should be selected according to the surrounding area.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released: ammonia gas, nitrogen oxides.

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear full protective suit.

Do not inhale explosion and combustion gases.

Cool endangered containers with water spray jet.

Fire residues and contaminated firefighting water (strong alkaline solution) must be disposed of in accordance with the local regulations.

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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
- 6.1.1 For non-emergency personnel**
Ensure adequate ventilation. Use personal protective clothing.
Use respiratory protection if exposed to vapours.
Keep away from unprotected people.
- 6.1.2 For emergency responders**
For suitable fabric for personal protective clothing see Section 8.
- 6.2 Environmental precautions**
Do not discharge into the drains, the aquatic environment and soil.
- 6.3 Methods and material for containment and cleaning up**
Pick up with suitable material. Dispose of absorbed material in accordance with the regulations.
Send in suitable containers for recovery or disposal.
Clean contaminated floors and objects thoroughly with plenty of water observing environmental regulations.
- 6.4 Reference to other sections**
For personal protective equipment see also Section 8.
For disposal considerations see also Section 13.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling**
- 7.1.1 Advice on safe handling**
Keep container tightly closed; open and handle with care.
Avoid contact with eyes and skin.
Comply with the minimum standards in accordance with TRGS 500¹.
Moreover, comply with the protective measures in accordance with TRGS 401¹.
Inhalation:
In designing the work process the model solutions of the Control Guidance Sheets 100¹, La-101¹ and 110¹ must be taken into consideration in case of release of only small amounts of product (range of grams).
In designing the work process the model solutions of the Control Guidance Sheet 200¹ must be additionally taken into consideration in case of release of medium up to large amounts of product (range of kilograms up to tons).
Skin contact:
In designing the work process the model solutions of the Control Guidance Sheets 120¹ and 250¹ must be taken into consideration in case of small-area skin contact (e.g. splashes) and regardless on the duration of skin contact.
In case of large-area skin contact (wetting of the skin) and short-term effect (duration of skin contact less than 15 minutes per shift), the model solutions of the Control Guidance Sheets 120¹ and 250¹ must be taken into consideration as well. In case of long-term effect (duration of skin contact more than 15 minutes per shift), the model solutions of the Control Guidance Sheet 300¹ (closed system) must be taken into consideration.
- 7.1.2 Advice on general occupational hygiene**
Do not inhale vapours.
Avoid contact with eyes and skin.
At work do not eat, drink, smoke or take drugs.
Remove contaminated clothing immediately and wash before reuse.
Wash hands before breaks and after work.
Use barrier skin cream.
Set out skin protection guidelines.
In the immediate working surroundings emergency shower and eye wash must be installed.
Label their location conspicuously.
- 7.2 Conditions for safe storage, including any incompatibilities**
- 7.2.1 Advice on protection against fire and explosion**
None.
- 7.2.2 Requirements for storage rooms and vessels**
Keep container tightly closed.
Keep in a cool place.
Keep only in the original container.
- 7.2.3 Advice on storage compatibility**
Do not store with strong oxidising agents and acids.
The information about joint storage given in Table 2 of TRGS 510¹ must be observed.
- 7.2.4 Further information on storage conditions**
Protect from sunlight. Storage temperature: 2 – 8°C.
Shelf life: 8 months.
- 7.2.5 Storage class (for Germany only)**
LGK 8 B (Non-combustible corrosive substances) in accordance with TRGS 510¹.
- 7.3 Specific end use(s)**
The product is only intended for the uses mentioned under subsection 1.2.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| CAS number | Identification | Limit values | Remarks |
|------------|--------------------|---|--|
| 7664-41-7 | ammonia, anhydrous | 14 mg/m ³ (8 h) indicative occupational exposure limit value 36 mg/m ³ (short term) indicative occupational exposure limit value 7 mg/m ³ 18 mg/m ³ 28 mg/m ³ 14 mg/m ³ 28 mg/m ³ 28 mg/m ³ 28 mg/m ³ 25 mg/m ³ | EU-limit value according to Directive 2000/39/EC Different national limit values: 8 hours France United Kingdom Different national limit values: short term Denmark France Germany Poland Switzerland United Kingdom |
| 1336-21-6 | liquid ammonia | 14 mg/m ³ 36 mg/m ³ | National limit values – 8 h Finland National limit values – short term Finland |
| 1310-73-2 | sodium hydroxide | 2 mg/m ³ inhalable aerosol 2 mg/m ³ 1 mg/m ³ 2 mg/m ³ 2 mg/m ³ 2 mg/m ³ 0,5 mg/m ³ 0,5 mg/m ³ 1 mg/m ³ 2 mg/m ³ 2 mg/m ³ 1 mg/m ³ 2 mg/m ³ inhalable aerosol 4 mg/m ³ inhalable aerosol 2 mg/m ³ 2 mg/m ³ 2 mg/m ³ 2 mg/m ³ 2 mg/m ³ 2 mg/m ³ 2 mg/m ³ 1 mg/m ³ 3 mg/m ³ 2 mg/m ³ inhalable fraction 2 mg/m ³ inhalable aerosol 2 mg/m ³ | National limit values – 8 hours Austria Belgium Czech Republic Denmark France Hungary Latvia Poland Romania Slovakia Spain Sweden Switzerland National limit values – short term Austria Czech Republic Denmark Estonia Finland Hungary Ireland Poland Romania Sweden Switzerland United Kingdom |

DNEL values

Additional limit values for sodium hydroxide in accordance with the registration dossier:

worker, long-term exposition: inhalation, systemic effect: 1 mg/m³

general population, long-term exposition: inhalation, systemic effect: 1 mg/m³

The methods for measuring chemical agents in workplace atmosphere must meet the general requirements of EN 482 and EN 689.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See also subsection 7.1. The effectiveness of suitable protective measures must be controlled. Suitable assessment methods are described in the German TRGS 402¹.

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8.2.2 *Individual protection measures, such as personal protective equipment*

Personal protective equipment needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer/supplier of the personal protective equipment.

8.2.2.1 *Eye/face protection*

Tightly fitting safety glasses in accordance with EN 166 (i.e. safety glasses with side shields).

8.2.2.2 *Skin protection*

Hand protection:

Protective gloves (resistant to alkaline solution).

Suitable: protective gloves of nitrile rubber (0.35 mm; breakthrough time ≥ 8 h);
 protective gloves of butyl rubber (0.5 mm; breakthrough time ≥ 8 h);
 protective gloves of fluorinated rubber (0.4 mm; breakthrough time ≥ 8 h);
 protective gloves of neoprene (0.5 mm; breakthrough time ≥ 4 h);
 protective gloves of natural rubber (0.5 mm; breakthrough time ≥ 2 h);
 protective gloves of PVC (0.5 mm; breakthrough time ≥ 2 h).

Totally unsuitable: protective gloves of leather or textile.

Wear cotton undermitten if possible.

Under practical conditions, the maximum wearing period can be significantly lower.

The protective gloves to be used must comply with the specifications of the standard EN 374.

Body protection:

Protective clothing (resistant to alkaline solution).

8.2.2.3 *Respiratory protection*

With correct and proper use, and adequate ventilation of the working place, respiratory protection is not required.

In case of inadequate ventilation, and in case of formation of vapours/aerosols, wear respiratory protection.

Information on appropriate respirator protection is currently not available.

The limitations in wearing time according to the the DGUV Regel 112-190² (rule of the German employers' liability insurance association) for the use of respirators have to observed.

8.2.2.4 *Thermal hazards*

Not relevant.

8.2.3 *Environmental exposure controls*

See Section 6.

SECTION 9: Physical and chemical properties

9.1 *Information on basic physical and chemical properties*

| | | |
|---|-----------------------------|------------------------------|
| Physical state: | liquid | |
| Colour: | colourless | |
| Odour: | pungent | |
| Odour threshold: | not relevant | |
| pH (as supplied): | > 10 | |
| pH (of an aqueous solution): | not determined | |
| Melting point/freezing point (°C): | not determined | |
| Boiling point and boiling range (°C): | not determined | |
| Flash point (°C), closed cup: | not relevant | |
| Evaporation rate: | no data available | |
| Flammability (solid, gas): | not relevant | |
| Upper flammability or explosive limit: | not relevant | |
| Lower flammability or explosive limit: | not relevant | |
| Vapour pressure (20°C) (mbar): | no data available | |
| Vapour density (20°C): | no data available | |
| Density (g/cm ³): | not determined | |
| Relative density: | not determined | |
| Solubility in water: | miscible | |
| Soluble in: | not determined | |
| Partition coefficient: n-octanol/water: | - 1.38 (ammonia, anhydrous) | (external safety data sheet) |
| Auto-ignition temperature (°C): | no data available | |
| Decomposition temperature (°C): | no data available | |
| Viscosity: | no data available | |
| Explosive properties: | not explosive | |
| Oxidising properties: | not relevant | |

9.2 *Other information*

The product is a strong alkaline solution.

| | | |
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SECTION 10: Stability and reactivity

- 10.1 Reactivity**
No data available for the mixture.
- 10.2 Chemical stability**
The product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
- 10.3 Possibility of hazardous reactions**
Reaction with strong oxidising agents possible.
Strong exothermic reaction with acids, acetaldehyde, acrolein, halogen compounds, sulphur compounds, nitrogen oxides.
Possible formation and release of ammonia in case of contact with strong alkalis.
Possible formation and release of flammable gases and vapours in case of contact with nitric acid, chlorine and oxides of phosphorus.
- 10.4 Conditions to avoid**
Avoid heating (decomposition under formation of hydrogen and hydrogen cyanide).
- 10.5 Incompatible materials**
Reaction with strong oxidising agents possible.
Strong exothermic reaction with acids, acetaldehyde, acrolein, halogen compounds, sulphur compounds, nitrogen oxides.
Possible formation and release of ammonia in case of contact with strong alkalis.
Possible formation and release of flammable gases and vapours in case of contact with nitric acid, chlorine and oxides of phosphorus.
Corrosive effect on various metals and their alloys possible (e.g. zinc, copper, aluminium, lead, nickel and silver).
Corrosive effect on quartz, various plastics and types of glass.
- 10.6 Hazardous decomposition products**
When used as intended, no hazardous decomposition products known.
For hazardous combustion products see subsection 5.2.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects**
The mixture has not been tested.
- 11.1.1 Acute toxicity**
- | | | | | |
|----------------------|-----------|--------------------|-------------------------|---------|
| LD50 rat, oral | (mg/kg) | 350 | (ammonia solution, 29%) | (RTECS) |
| LD50 rat, dermal | (mg/kg) | No data available. | | |
| LC50 rat, inhalation | (mg/l/4h) | No data available. | | |
- 11.1.2 Skin corrosion/irritation**
Skin Corr. 1B; causes severe skin burns.
Irritant effect on skin (rabbit)
- | | | |
|-------------------|-------------------------|---------|
| Severe skin burns | (ammonia solution, 29%) | (RTECS) |
| Severe skin burns | (sodium hydroxide) | (RTECS) |
- 11.1.3 Serious eye damage/irritation**
Eye Dam. 1; causes eye damage.
Irritant effect on eyes (rabbit)
- | | | |
|--------------------|-------------------------|---------|
| Severe irritations | (ammonia solution, 29%) | (RTECS) |
| Eye damage | (sodium hydroxide) | (RTECS) |
- 11.1.4 Respiratory or skin sensitisation**
No evidence of sensitive properties of ammonia solution and sodium hydroxide has been found.
- 11.1.5 Germ cell mutagenicity**
The mixture does not contain substances classified as germ cell mutagens.
- 11.1.6 Carcinogenicity**
The mixture does not contain substances classified as carcinogenic.
- 11.1.7 Reproductive toxicity**
The mixture does not contain substances classified as toxic for the reproduction.
- 11.1.8 Specific target organ toxicity (STOT)-single exposure**
The mixture is classified as being a specific target organ toxicant after single exposure.
- 11.1.9 Specific target organ toxicity (STOT)-repeated exposure**
The mixture does not contain substances classified as being a specific target organ toxicant after repeated exposure.
- 11.1.10 Aspiration hazard**
The mixture does not contain aspiration toxicants.
- 11.1.11 Symptoms related to the physical, chemical and toxicological characteristics**
After swallowing: mucosal irritations, gastric pain, bloody vomiting. Risk of perforation in the oesophagus and stomach.
After inhalation: coughing, bronchitis, pulmonary oedema.
In case of contact with eyes and skin: the product causes burns.

| | | |
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11.1.12 Delayed and immediate effects as well as chronic effects from short and long-term exposure

After swallowing: mucosal irritations, gastric pain, bloody vomiting. Risk of perforation in the oesophagus and stomach.
After inhalation: coughing, bronchitis, pulmonary oedema.
In case of contact with eyes and skin: the product causes burns.

ABSCHNITT 12: Umweltbezogene Angaben**12.1 Toxicity****Aquatic toxicity**

| | | |
|---------------------|--------------------|--|
| 96 h LC50 (fish) | 0.53 mg/l | (Oncorhynchus mykiss; rainbow trout) (ammonia, anhydrous) (external safety data sheet) |
| | 45.4 mg/l | (Oncorhynchus mykiss; rainbow trout) (sodium hydroxide, 50% solution) (IUCLID) |
| 48 h EC50 (daphnia) | 24 mg/l | (Daphnia magna) (ammonia, anhydrous) (external safety data sheet) |
| 72 h IC50 (algae) | No data available. | |

Behaviour in sewage works:

The product is an alkaline solution. Neutralisation is normally necessary before a waste water is discharged into sewage treatment plants.

12.2 Persistence and degradability

Biologic degradation: not readily degradable.

Chemical oxygen demand (COD) No data available.

Biochemical oxygen demand (BOD₅) No data available.

AOX-hint Not to apply.

12.3 Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water: - 1.38 (ammonia, anhydrous)
(external safety data sheet)

No bioaccumulation is to be expected.

12.4 Mobility in soil

The product has not been tested.

12.5 Results of PBT and vPvB assessment

The criteria for identifying substances as PBT and vPvB set out in Annex XIII of Regulation (EC) No 1907/2006 shall not apply to inorganic substances.

12.6 Other adverse effects

Ozone depletion potential No data available.

Photochemical ozone creation potential No data available.

Global warming potential No data available.

The product is classified as obviously hazardous to water.

Harmful effect due to pH shift. Despite dilution ammonia forms toxic mixtures in water.

Contains according to the formulation following heavy metals and compounds of EC-Directives 2006/11/EC and 80/68/EEC:

List II: ammonia.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste disposal according to official state regulations. Consult the local waste disposal expert about waste disposal. Sewage disposal must be avoided.

Disposal operations/recovery operations according to Directive 2008/98/EC

Disposal operations: D 9 Physico-chemical treatment

Recovery operations: R 5 Recycling/reclamation of other inorganic materials

Properties of waste which render it hazardous in accordance with Annex III of Directive 2008/98/EC

HP 8: Corrosive

13.1.1 Product / unused product

Waste disposal corresponding to European Waste Catalogue. Wastes must be classified with respect to their origin and depending on different processing steps. The waste codes mentioned as follows are only constituted as our recommendations. Referring to the particular case they should be completed or revised.

EC waste code: 06 02 05

Waste notation: Other bases

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13.1.2 Contaminated packaging

| | |
|-----------------------------------|---|
| Recommendation: | Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. |
| Recommended cleansing agent: | Water |
| Packaging that cannot be cleaned: | |
| EC waste code: | 15 01 10 |
| Waste notation: | Packaging containing residues of or contaminated by hazardous substances |

SECTION 14: Transport information**14.1 UN number**

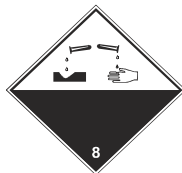
UN 3266

14.2 UN proper shipping name

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (ammonia solution, sodium hydroxide solution)

14.3 Transport hazard class(es)

Class 8 (Corrosive substances)

**14.4 Packing group**

PG III (Substances presenting low danger)

14.5 Environmental hazards

Not relevant.

14.6 Special precautions for user

See Sections 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not relevant.

The product is delivered only in suitable packagings that are authorised in accordance with the transport regulations.

Further information**ADR:**

| | |
|---|-----|
| Transport category: | 3 |
| Tunnel restriction code according to ADR: | (E) |
| Classification code: | C5 |

ADR/RID:

| | |
|-------------------------------|--------------------------------|
| Hazard identification number: | 80 |
| Limited Quantities (LQ): | 5 litres (per inner packaging) |
| Excepted quantities (EQ): | E1 |

IMDG-Code:

| | |
|---------------------------|--------------------------------|
| EmS: | F-A, S-B |
| Limited Quantities (LQ): | 5 litres (per inner packaging) |
| Excepted quantities (EQ): | E1 |

IATA-DGR:

| | |
|---------------------------|---|
| Limited Quantities (LQ): | 0.5 litres (per inner packaging of glass) |
| | 0.5 litres (per inner packaging of metall) |
| | 0.5 litres (per inner packaging of plastic) |
| | 1.0 litres (total net quantity per package) |
| Excepted quantities (EQ): | E1 |

Special provision A803: Notwithstanding the assignment of a packing group III in column E of the List of Dangerous Goods, substances assigned to this entry must be packed in UN Specification packagings that meet packing group II performance standards.

This does not apply when the substances are prepared for transport in accordance with the limited quantity provisions.

| | | |
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SECTION 15: Regulatory information

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

15.1.1 *Information regarding relevant Union safety, health and environmental provisions*

- Regulation (EC) No 1907/2006: The mixture does not contain substances classified as substances of very high concern (SVHC) in accordance with Article 57 of the regulation.
- Conditions of restriction in accordance with Regulation (EC) No 1907/2006: Annex XVII, No 3
- Observe employment restrictions under the law for the protection of young people at work (94/33/EC).
- Observe Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

15.1.2 *Information regarding national laws/national measures that may be relevant (for Germany only)*

- Restriction of occupation: Youth Employment Protection Act has to be observed.
 - Major-accident Ordinance: Not relevant
 - Fire and explosion hazards: Not relevant
 - Regulation on clean air (TA Luft): Number 5.2.4 class III: ammonia, gaseous
 - Water hazard class: WGK 2 – obviously hazardous to water (deduction of the WGK according to Annex 1 No 5.2 AwSV)³
The German Ordinance on facilities for handling substances that are hazardous to water (AwSV) has to be observed
 - German Ordinance on Hazardous Substances (in accordance with EC-Directive 98/24/EC): Articles 6, 7, 8, 9 and 14 must be observed.
 - Technical Rules for Hazardous Substances¹: TRGS 400, 401, 402, 500, 510, 555, 600, 900
 - Rules of the employers' liability insurance association²: DGUV Regel 112-189, 112-190, 112-192, 112-195
 - Classification in accordance with the easy-to-use workplace control scheme for hazardous substances of the Federal Institute for Occupational Safety and Health, version 2.2, 2014⁴: inhalation: hazard group C
skin contact: hazard group HD
 - In accordance with Article 16e of the German Chemicals Act there is an obligation to notify the product at the Federal Institute of Risk Assessment (BfR).
 - Number of the product in the Poison Information Database: 5818043
- 15.2 *Chemical safety assessment***
No chemical safety assessment has been carried out for a substance in the product.

SECTION 16: Other information

- 16.1 *Keeping (restrictions)*** Article 8 (5) and (6) German Ordinance on Hazardous Substances (for Germany only)
- Supply** University (college, academy), industry consumer
- 16.2 *Full text of the hazard statements referred to under subsection 2.1 and point 3.2.2 of the Safety Data Sheet***
 - 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.
- 16.3 *Key to abbreviations and acronyms used in the safety data sheet***
 - ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 - ADR: Accord européen relatif au transport international des marchandises dangereuses par route
 - AOX: adsorbable organically bound halogens
 - AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances that are hazardous to water)
 - DNEL: Derived No-Effect Level
 - ICAO/IATA: International Civil Aviation Organisation/International Air Transport Association-Dangerous Goods Regulations
 - IMDG-Code: International Maritime Dangerous Goods-Code
 - IUCLID: International Uniform Chemical Information Database
 - KBwS: Commission for the Evaluation of substances hazardous to waters (Kommission Bewertung wassergefährdende Stoffe)
 - LGK: Lagerklasse (storage class)
 - OECD: Organisation for Economic Co-operation and Development
 - PBT: persistent, bioaccumulative and toxic

| | | |
|----------------------|--|---------------------------|
| Trade name: | ArgentQuick, Silver Staining Kit Staining Solution B | |
| Company/Undertaking: | anamed Elektrophorese GmbH Ringstraße 4, D-64401 Gross-Bieberau | |
| Telephone: | +49-6162-809840 | Revision date: 28.02.2020 |
| Product number: | anam0022 | |

(continued from 16.3 Key to abbreviations and acronyms used in the safety data sheet)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
RTECS: Registry of Toxic Effects of Chemical Substances
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)
vPvB: very persistent and very bioaccumulative

16.4 Literature references and sources for data

- ¹ <http://www.baua.de>
- ² <http://www.arbeitssicherheit.de>
- ³ <http://www.umweltbundesamt.de>
- ⁴ <http://www.baua.de/emkg>

16.5 Method used for the classification of the mixture

The classification was undertaken in accordance with the classification criteria of Annex I of Regulation (EC) No 1272/2008.

16.6 Changes which have been made to the previous version of the safety data sheet

Revised sections: 1.3, 7.1.1, 8.1, 11.1.2, 11.1.3, 14.7, 15.1.1

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 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.