

Revision date: 28.02.2020
Replacement of version 0018 of 07.01.2019

Version: 0019



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

1.1 Product identifier

Trade name	ArgentQuick, Silver Staining Kit Sensitizer
Product number	anam0023
Item code	GF10013
Formulation	Sensibilisierer
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
Acute Tox. 3; H301
Acute Tox. 2; H330
Skin Corr. 1B; H314
Skin Sens. 1A; H317
Eye Dam. 1; H318
Resp. Sens. 1; H334
Aquatic Acute 1; H400
Aquatic Chronic 2; H411

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2.2 Label elements
 Hazard pictogram(s):



Signal word(s):	Danger	
Product identifier:	ArgentQuick, Silver Staining Kit Sensitizer contains glutaral	
Hazard statements:	H290 H301 H314 H317 H330 H334 H400	May be corrosive to metals. Toxic if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Fatal if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Very toxic to aquatic life with long lasting effects.
Precautionary statements:	P260 P273 P280 P310 P303 + P361 + P353 P304 + P340 P305 + P351 + P338 P405 P501	Do not breathe mist/vapours/spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Immediately call a POISON CENTER/doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents/container at hazardous or special waste collection point.
Supplemental hazard information:	EUH071	Corrosive to the respiratory tract.
Remark:	<p>- 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 categories "Hazardous to the aquatic environment – Acute of category 1", "Hazardous to the aquatic environment – Chronic of category 2" and "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.</p> <p>- 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.</p>	

2.3 Other hazards

The product is classified as highly hazardous to water.
 The mixture does not contain any substances classified as PBT/vPvB in a concentration of 0.1% or more.

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SECTION 3: Composition/information on ingredients

3.2 *Mixtures* Sensitizer

REACH registration number:

The ingredients do not require registration according to Regulation (EC) No 1207/2006 [REACH] (exempted from registration or the annual tonnage does not require a registration).

3.2.1 *Characterisation*

Product consists of an aqueous solution of glutaral.

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
111-30-8	203-856-5	glutaral	≥ 50	Met. Corr. 1; H290 Acute Tox. 3; H301 Acute Tox. 3; H331 Skin Corr. 1B; H314 Skin Sens. 1A; H317 Resp. Sens. 1; H334 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-factor = 1

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

3.2.3 *Substances which are assigned Community workplace exposure limits and which are not already included under points 3.2.2 and 3.2.3 (see also Section 8.)*

No substances.

3.2.4 *Additional information*

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

STOT SE 3: 0.5% ≤ C < 5%

SECTION 4: First aid measures

4.1 *Description of first aid measures*

4.1.1 *General information*

Remove contaminated, soaked clothing immediately and dispose of safely.

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. Call physician immediately.

4.1.3 *In case of contact with skin*

In case of contact with skin, wash off immediately with plenty of water. Call physician.

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 and spit out immediately (only if the person is conscious).

Do not induce vomiting. Risk of aspiration.

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: burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach. If swallowed, in the event of vomiting, risk of product entering the lungs and risk of pulmonary injury.

After inhalation: headache, dizziness, nausea, irritations of the mucous membranes, coughing, dyspnoea.

Risk of sensitisation of the respiratory tract.

After contact with eyes: lacrimal irritation (vapours), conjunctivitis. Risk of corneal clouding.

The product causes burns. Risk of sensitisation of the skin.

4.3 *Indication of any immediate medical attention and special treatment needed*

No information available.

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SECTION 5: Firefighting measures

- 5.1 Extinguishing media**
- 5.1.1 Suitable extinguishing media**
Water spray jet, carbon dioxide, dry powder, alcohol resistant foam.
- 5.1.2 Unsuitable extinguishing media**
Full water jet.
- 5.2 Special hazards arising from the substance or mixture**
In the event of fire the following can be released: carbon monoxide. Risk of formation of toxic pyrolysis products. In case of strong heating vapours can form an explosive mixture with air.
- 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.
Collect contaminated firefighting water separately, must not be discharged into the drains.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Fire class in accordance with EN 2: B (fires of liquid or liquefying substances).
-

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. Avoid contact with the product. 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.
In case of leakage into waters, ground or the drainage system, the appropriate authorities must be informed.
- 6.3 Methods and material for containment and cleaning up**
Pick up with suitable absorbent material (e.g. Chemizorb).
Dispose of absorbed material in accordance with the regulations. Send in suitable containers for recovery or disposal.
Clean contaminated floors and objects thoroughly, observing environmental regulations.
Avoid release to the environment. Refer to special instructions/Safety data sheets.
- 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 the product. Avoid formation of vapours/aerosols.
Work only in fume cupboards and obtain special operating instructions.
Comply with the minimum standards in accordance with TRGS 500¹.
Moreover, comply with the protective measures in accordance with TRGS 401¹ and TRGS 406¹.
- Inhalation:**
In designing the work process the model solutions of the Control Guidance Sheet 300¹ (closed system) must be taken into consideration in case of release of only small amounts of product (range of grams).
In case of possible release of medium up to large amounts of product (range of kilograms up to tons), there is additional demand for advice by experts in designing the work process (e.g. in-depth risk assessment, technical standards, information of the employers' liability insurance association).
- 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 additionally taken into consideration.
- 7.1.2 Advice on general occupational hygiene**
Do not inhale vapours. Avoid contact with the product.
At work do not eat, drink, smoke or take drugs. Storage of foodstuffs in work rooms is forbidden.
Remove contaminated, soaked clothing immediately and dispose of safely. Store work clothing separately.
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.

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7.2 Conditions for safe storage, including any incompatibilities**7.2.1 Advice on protection against fire and explosion**

No special measures necessary.

7.2.2 Requirements for storage rooms and vessels

Keep under lock and key or accessible only to specialists or people who are authorized.

Keep container tightly closed. Keep in a cool place.

Keep container in a well-ventilated place. Keep only in the original container.

7.2.3 Advice on storage compatibility

Do not store with with explosible and flammable material, oxidising agents, strong alkalies 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**

Storage temperature: 2 – 8°C.

Shelf life: 8 months

7.2.5 Storage class (for Germany only)LGK 6.1 A (Combustible substances of acute toxicity, categories 1 and 2) in accordance with TRGS 510¹.**7.3 Specific end use(s)**

The product is only intended for the uses mentioned under subsection 1.2.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

CAS number	Identification	Limit values	Remarks
111-30-8	glutaraldehyde	0.1 ml/m ³ - 0.4 mg/m ³ 0.045 ml/m ³ - 0.2mg/m ³ 0.2 ml/m ³ - 0.8 mg/m ³ 0.1 ml/m ³ - 0.4 mg/m ³ 0.05 ml/m ³ - 0.2 mg/m ³ 5 mg/m ³ 0.4 mg/m ³ 0,05 ml/m ³ - 0,2 mg/m ³ 0.05 ml/m ³ - 0.21 mg/m ³ 0.05 ml/m ³ - 0.2 mg/m ³	National limit values – 8 hours Austria Czech Republic Denmark France Germany Latvia Poland Slovakia Switzerland United Kingdom National limit values – short term Austria Belgium Czech Republic Denmark Estonia Finland France Germany Ireland Poland Slovakia Spain Sweden Switzerland United Kingdom

DNEL values**Additional limit values for glutaral in accordance with the registration dossier:**

worker, long-term exposition: inhalation, local effect:

0.21 mg/m³

worker, acute: inhalation, local effect:

0.42 mg/m³

worker, long-term exposition: dermal, systemic effect:

6.25 mg/kg_{bw}/d**PNEC values****Additional limit values for glutaral in accordance with the registration dossier:**

aquatic, fresh water:

0.003 mg/l

aquatic, marine water:

0 mg/l

aquatic, sewage treatment plant:

0.8 mg/l

sediment, fresh water:

0.091 mg/kg_{dw}

sediment, marine water:

0.009 mg/kg_{dw}

soil environment:

0.18 mg/kg_{dw}

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

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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.

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.

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 ≥ 8 h);
 protective gloves of PVC (0.5 mm; breakthrough time ≥ 8 h);
 protective gloves of natural rubber (0.5 mm; breakthrough time ≥ 4 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.

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.

Appropriate respirator protection: filter type A.

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 be 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 to yellowish
Odour:	pungent
Odour threshold:	not relevant
pH (as supplied):	not determined
pH (of an aqueous solution) (20°C):	3-4 (100g/l)
Melting point/freezing point (°C):	-18
Boiling point and boiling range (°C) (1013 hPa):	100
Flash point (°C), closed cup:	> 100
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) (hPa):	22
Vapour density (20°C):	no data available
Density (g/cm ³):	not determined
Relative density:	not determined
Solubility in water:	completely miscible
Miscible with:	ethanol, acetone
Partition coefficient: n-octanol/water:	- 0.36 (23°C, pH 7) (EU method A.8)
Auto-ignition temperature (°C):	225
Decomposition temperature (°C):	no data available
Viscosity:	no data available
Explosive properties:	not explosive
Oxidising properties:	not relevant

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9.2 Other information

None.

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

Violent reactions with strong oxidising agents, acids, strong alkalies and amines possible.

10.4 Conditions to avoid

No specific information available for the mixture.

10.5 Incompatible materials

Violent reactions with strong oxidising agents, acids, strong alkalies and amines possible.

Unsuitable working materials: aluminium and various metals.

Test of the stability of equipment necessary before use.

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)	134	(glutaral, pure)	(RTECS)
LD50 rat, dermal	(mg/kg)	> 2000	(glutaral, pure)	(OECD Test Guideline 402)
LC50 rat, inhalation	(mg/l/4h)	0.28	(glutaral, pure)	(OECD Test Guideline 403)

11.1.2 Skin corrosion/irritation

Skin Corr. 1B; causes severe skin burns.

Irritant effect on skin (rabbit) Severe skin burns (glutaral, pure) (OECD Test Guideline 404)

11.1.3 Serious eye damage/irritation

Eye Dam. 1; causes eye damage.

Irritant effect on eyes (rabbit) Corrosive (glutaral, pure) (OECD Test Guideline 404)

11.1.4 Respiratory or skin sensitisation

Patch-test (human): positive (glutaral solution) (IUCLID).

May cause sensitisation by inhalation and skin contact.

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: burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach. If swallowed, in the event of vomiting, risk of product entering the lungs and risk of pulmonary injury.

After inhalation: headache, dizziness, nausea, irritations of the mucous membranes, coughing, dyspnoea.

Risk of sensitisation of the respiratory tract.

After contact with eyes: lacrimal irritation (vapours), conjunctivitis. Risk of corneal clouding.

The product causes burns. Risk of sensitisation of the skin.

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

After swallowing: burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach. If swallowed, in the event of vomiting, risk of product entering the lungs and risk of pulmonary injury.

After inhalation: headache, dizziness, nausea, irritations of the mucous membranes, coughing, dyspnoea.

Risk of sensitisation of the respiratory tract.

After contact with eyes: lacrimal irritation (vapours), conjunctivitis. Risk of corneal clouding.

The product causes burns. Risk of sensitisation of the skin.

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ABSCHNITT 12: Umweltbezogene Angaben

- 12.1 Toxicity**
- Aquatic toxicity**
- | | | | |
|---------------------|--------------------------------|---------------------------------------|-------------------|
| 96 h LC50 (fish) | glutaral solution (50%) | | |
| | 3.5 mg/l | (Onchorhynchus mykiss; rainbow trout) | (ECOTOX Database) |
| 48 h EC50 (daphnia) | 0.75 mg/l | (Daphnia magna) | (ECOTOX Database) |
| 72 h EC50 (algae) | 0.61 mg/l | (Desmodesmus subspicatus) | (IUCLID) |
- Behaviour in sewage works:**
Treat by state-of-the-art technology before discharging into drains.
- 12.2 Persistence and degradability**
- Glutaral solution (50%):
Abiotic degradation: slow degradation.
Biodegradability: 74%/28d (OECD Test Guideline 301 D). Readily biodegradable.
- | | | | |
|---|---------------|------------------|----------|
| Chemical oxygen demand (COD) | 1385 mg/g | (glutaral, pure) | (IUCLID) |
| Biochemical oxygen demand (BOD ₅) | 235 mg/g | (glutaral, pure) | (IUCLID) |
| AOX-hint | Not to apply. | | |
- 12.3 Bioaccumulative potential**
- Partition coefficient n-octanol/water: - 0.36 (23°C, pH 7) (glutaral) (OECD Test Guideline 107)
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 mixture does not contain any substances classified as PBT/vPvB in a concentration of 0.1% or more.
- 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 highly hazardous to water.
Very toxic to aquatic organisms. Bactericidal effect.
Despite dilution the product 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:
None.

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 3 | Recycling/reclamation of organic substances which are not used as solvents |
- Properties of waste which render it hazardous in accordance with Annex III of Directive 2008/98/EC**
- | | |
|--------|----------------|
| HP 6: | Acute Toxicity |
| HP 8: | Corrosive |
| HP 13: | Sensitising |
| HP 14: | Ecotoxic |
- 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: | 07 07 01 |
| Waste notation: | Aqueous washing liquids and mother liquors |
- 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 |

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SECTION 14: Transport information

- 14.1 **UN number**
UN 2927
- 14.2 **UN proper shipping name**
TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (glutaral solution)
- 14.3 **Transport hazard class(es)**
Classes 6.1 + 8 (Toxic substances + Corrosive substances)



- 14.4 **Packing group**
PG II (Substances presenting medium danger)
- 14.5 **Environmental hazards**
The environmentally hazardous substance mark is necessary.



- 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: 2
 Tunnel restriction code according to ADR: (D/E)
 Classification code: TC1

ADR/RID:
 Hazard identification number: 68
 Limited Quantities (LQ): 100 ml (per inner packaging)
 Excepted quantities (EQ): E4

IMDG-Code:
 EmS: F-A, S-B
 Limited Quantities (LQ): 100 ml (per inner packaging)
 Excepted quantities (EQ): E4

IATA-DGR:
 Limited Quantities (LQ): 0.1 litres (per inner packaging of glass)
 0.1 litres (per inner packaging of metall)
 0.1 litres (per inner packaging of plastic)
 0.5 litres (total net quantity per package)
 Excepted quantities (EQ): E4

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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
- Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances: Annex I, hazard categories H2 and E1.
- Observe employment restrictions under the law for the protection of young people at work (94/33/EC).
- Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
- 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: Law for the protection of expectant and nursing mothers and Youth Employment Protection Act must be observed
- Major-accident Ordinance: Annex I, hazard categories H2 and E1
- Fire and explosion hazards: Not relevant
- Regulation on clean air (TA Luft): Number 5.2.5 class I: glutaral, 50%
WGK 3 – highly hazardous to water
(deduction of the WGK according to Annex 1
No 5.2 AwSV)³
- Water hazard class: 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.
- Regulation on Occupational Medical Prevention (ArbMedVV): Annex, Part 1 (2) k: Prophylaxis offer for activities involving exposure to other respiratory or skin sensitising substances for which workers are to be afforded the opportunity to undergo.
- Technical Rules for Hazardous Substances¹: TRGS 400, 401, 402, 406, 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 D
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: 5818044
- ### 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.
- H301 Toxic if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

Trade name:	ArgentQuick, Silver Staining Kit Sensitizer	
Company/Undertaking:	anamed Elektrophorese GmbH Ringstraße 4, D-64401 Gross-Bieberau	
Telephone:	+49-6162-809840	Revision date: 22.08.2020
Product number:	anam0023	

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
PNEC:	Predicted No-Effect Concentration
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, 8.1, 9.1, 11.1.2, 11.1.3, 12.3, 14.7, 15.1.1, 16.2

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.