

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 Developer**

Product number anam0024
Item code GF10014
Formulation Entwickler
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

Carc. 1B; H350
Skin Sens. 1; H317

Trade name:	ArgentQuick, Silver Staining Kit Developer	
Company/Undertaking:	anamed Elektrophorese GmbH	
	Ringstraße 4, D-64401 Gross-Bieberau	
Telephone:	+49-6162-809840	Revision date: 28.02.2020
Product number:	anam0024	

2.2 Label elements

Hazard pictogram(s):



Signal word(s):	Danger
Product identifier:	ArgentQuick, Silver Staining Kit Developer contains formaldehyde 0.85%
Hazard statements:	H350 H317 May cause cancer. May cause an allergic skin reaction.
Precautionary statements:	P201 P280 P308 + P313 P405 P501 Obtain special instructions before use. Wear protective gloves/protective clothing/eye protection/ face protection. IF exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container at hazardous or special waste collection point.
Supplemental hazard information:	Not required

Demands on packaging:

The packaging must be marked visibly, legibly and indelibly as follows:
Restricted to professional users.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures Developer
REACH registration number:
- Formaldehyde: 01-2119488953-20-XXXX

3.2.1 Characterisation

The product consists of an aqueous solution 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
50-00-0	200-001-8	formaldehyde	> 0.1 - < 1	Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 Skin Corr. 1B; H314 Skin Sens. 1; H317 Muta. 2; H341 Carc. 1B; H350

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 formaldehyde in accordance with Annex VI of Regulation (CE) No 1272/2008:

Skin Corr. 1B:	$C \geq 25\%$
Skin Irrit. 2:	$5\% \leq C < 25\%$
Eye Irrit. 2:	$5\% \leq C < 25\%$
STOT SE 3:	$C \geq 5\%$
Skin Sens. 1:	$C \geq 0.2\%$

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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. 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.
In the event of symptoms 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. 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*

Risk of sensitisation of the skin.
Irritant effect on respiratory tract, gastrointestinal tract and skin.
Temporary symptoms such as coughing, headache, nausea and breathing difficulties may occur.
Carcinogenic potential based on animal evidence.

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

No information available. Treat symptomatically.

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: carbon oxides, hydrocarbons.
Risk of formation of toxic pyrolysis products.

5.3 *Advice for firefighters*

Wear self-contained breathing apparatus. Wear suitable protective clothing to prevent contact with skin.
Do not inhale explosion and combustion gases. Cool endangered containers with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 *Personal precautions, protective equipment and emergency procedures*

6.1.1 *For non-emergency personnel*

Evacuate the hazard area. Warn the affected surrounding area. Keep away from unprotected people.
Use personal protective clothing when entering the hazard area.
Ensure adequate ventilation. Use respiratory protection if exposed to vapours.
Avoid contact with product.

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.

6.4 *Reference to other sections*

For personal protective equipment see also Section 8.
For disposal considerations see also Section 13.

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SECTION 7: Handling and storage

7.1 *Precautions for safe handling*

7.1.1 *Advice on safe handling*

Handle and open container with care. Provide good room ventilation.
Always close containers tightly after the removal of product. Keep containers upright.
Avoid contact with product.
Limitation of the hazardous substances encountered at the workplace with respect to the quantity required to continue with the activities.
The product should be filled and transferred in tightly fitting systems with an adequate suctioning close to work place if possible.
Avoid spillage. Only fill in labelled containers.
Clean contaminated equipment before use in other work areas.
Delimit hazard areas where workers are exposed or may be exposed to this product, and mount warning and safety signs according to Annex II Number 3.1 of Directive 92/58/EEC.
Comply with the minimum standards in accordance with TRGS 500¹ and with the protective measures in accordance with TRGS 401¹.

Inhalation:

In case of possible release of medium and regardless of the amount of liberated product, there is 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 Sheet 120¹ must be taken into consideration in case of small-area skin contact (e.g. splashes) and short-term effect (duration of skin contact less than 15 minutes per shift). In case of long-term effect (duration of skin contact more than 15 minutes per shift), the model solutions of the Control Guidance Sheet 250¹ must be additionally taken into consideration.
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 eyes and skin.
At work do not eat, drink, smoke or take drugs. Food storage on workplace is forbidden.
Remove contaminated, soaked clothing immediately and dispose of safely. Store work clothing separately.
Used working clothes should not be worn outside the work area.
Remove contaminated clothing before entering areas in which food is consumed.
After worktime and before breaks the affected skin areas must be thoroughly cleaned.
Provide washing facilities at the workplace.
After work protect skin by using skin protective 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*

Store locked up or accessible only to specialists or people who are authorised.
Keep only in the original container.
Containers must be labelled clearly and permanently.
Keep container tightly closed.
Keep in a cool place.

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 6.1D (Non-combustible toxic substances or substances with chronic effects) 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
50-00-0	formaldehyde	0.3 ml/m ³ - 0.37 mg/m ³ 0.41 ml/m ³ - 0.5 mg/m ³ 0.3 ml/m ³ - 0.4 mg/m ³ 0.5 ml/m ³ - 0.6 mg/m ³ 0.3 ml/m ³ - 0.37 ml/m ³ 0.5 ml/m ³ 0.3 ml/m ³ - 0.37 ml/m ³ 0.6 mg/m ³ 2 ml/m ³ - 2.5 mg/m ³ 0.5 mg/m ³ 0.5 mg/m ³ 1 ml/m ³ - 1.2 mg/m ³ 0.3 ml/m ³ - 0.37 ml/m ³ 0.3 ml/m ³ - 0.37 mg/m ³ 0.3 ml/m ³ - 0.37 ml/m ³ 0.3 ml/m ³ - 0.37 mg/m ³ 0.15 mg/m ³ 2 ml/m ³ - 2.5 mg/m ³	National limit values – 8 hours Austria Czech Republic Denmark Estonia Finland France Germany Hungary Ireland Latvia Poland Romania Slovakia Spain Sweden Switzerland The Netherlands United Kingdom National limit values – short term Austria Belgium Czech Republic Denmark Estonia Finland France Germany Hungary Ireland Poland Romania Slovakia Spain Sweden Switzerland The Netherlands United Kingdom
		0.6 ml/m ³ - 0.74 mg/m ³ 0.3 ml/m ³ - 0.38 mg/m ³ 0.83 ml/m ³ - 1 mg/m ³ 0.3 ml/m ³ - 0.4 mg/m ³ 1 ml/m ³ - 1.2 mg/m ³ 1 ml/m ³ - 1.2 mg/m ³ 1 ml/m ³ 0.6 ml/m ³ - 0.74 mg/m ³ 0.6 mg/m ³ 2 ml/m ³ - 2.5 mg/m ³ 1 mg/m ³ 2 ml/m ³ - 3 mg/m ³ 0.6 ml/m ³ - 0.74 mg/m ³ 0.6 ml/m ³ - 0.74 mg/m ³ 0.6 ml/m ³ - 0.74 mg/m ³ 0.6 ml/m ³ - 0.74 mg/m ³ 0.5 mg/m ³ 2 ml/m ³ - 2.5 mg/m ³	

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

worker, long-term exposition: inhalation, systemic effect: 9 mg/m³
 worker, acute: inhalation, local effect: 0.375 mg/m³
 worker, long-term exposition: dermal, systemic effect: 240 mg/kg_{bw}/d
 worker, long-term exposition: dermal, local effect: 0.037 mg/cm²
 general population, long-term exposition: inhalation, systemic effect: 3.2 mg/m³
 general population, acute: inhalation, local effect: 0.1 mg/m³
 general population, long-term exposition: dermal, systemic effect: 102 mg/kg_{bw}/d
 general population, long-term exposition: dermal, local effect: 0.012 mg/cm²
 general population, long-term exposition: oral, systemic effect: 4.1 mg/kg_{bw}/d

PNEC values**Additional limit values for formaldehyde in accordance with the registration dossier:**

aquatic, fresh water: 0.44 mg/l
 aquatic, marine water: 0.44 mg/l
 aquatic, intermittent release: 4.44 mg/l
 aquatic, sewage treatment plant: 0.19 mg/l
 sediment, fresh water: 2.3 mg/ kg_{bw}
 Sediment, Meerwasser: 2.3 mg/ kg_{bw}
 soil environment: 0.2 mg/ kg_{bw}

Preliminary measure of the concentration of formaldehyde with test tubes, e.g.:

Compur (549 319 Typ: 171 SB); Dräger (67 33 081 Typ: Formaldehyd 0,2/a);

Auer (D5086813 Typ: Formaldehyd-01).

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.

Additional information on plant design:

If activities involving hazardous substances that are carcinogenic, mutagenic and toxic to reproduction of category 1 or 2 are performed in a working area, the air extracted there shall not be returned to the working area. This shall not apply if the air has been adequately decontaminated of such substances using processes or devices recognised by the authorities or the statutory accident insurance institutions. The air shall then be conducted or cleaned in such a way that hazardous substances that are carcinogenic, mutagenic and toxic to reproduction do not pass into the breathing air of other workers.

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).

Unsuitable:

protective gloves of natural rubber (0.5 mm; breakthrough time < 1 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:

Closed work clothing.

If handling large amounts of product and in case of increased risk, chemical protective clothing must be worn.

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.

Suitable respiratory protection, e.g. full mask/half mask/filtering half mask with

- gas filter, type B1 up to 1000ml/m³ (ppm);
- gas filter, type B2 up to 5000ml/m³ (ppm);
- gas filter, type B3 up to 10000ml/m³ (ppm).

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
Odour:	odorless
Odour threshold:	not relevant
pH (as supplied):	not determined
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

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(continued from 9.1 Information on basic physical and chemical properties)

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:	0.35 (25°C) (formaldehyde) (registration dossier)
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

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

Reaction with strong oxidising agents and acids possible.

In contact with hydrochloric acid, the product forms health hazardous gases and vapours (bis (chloromethyl) ether).

10.4 Conditions to avoid

When used as intended, no hazardous reactions known.

10.5 Incompatible materials

Reaction with strong oxidising agents and acids possible.

In contact with hydrochloric acid, the product forms health hazardous gases and vapours (bis (chloromethyl) ether).

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)	100	(formaldehyde)	(RTECS)
LD50 rabbit, dermal	(mg/kg)	220	(formaldehyde)	(IUCLID)
LC50 rat, inhalation	(mg/l/4h)	0.31	(formaldehyde)	(RTECS)

11.1.2 Skin corrosion/irritation

Irritant effect on skin (rabbit) Skin burns (formaldehyde) (OECD Test Guideline 404)

11.1.3 Serious eye damage/irritation

Irritant effect on eyes (rabbit) Eye burns (formaldehyde) (registration dossier)

11.1.4 Respiratory or skin sensitisation

Buehler-Test (guinea pig): positive (formaldehyd) (IUCLID).
Guinea pig-maximization test: positive (formaldehyd) (OECD Test Guideline 406)
Formaldehyde is classified as a sensitising substance.
May cause sensitisation by skin contact.

11.1.5 Germ cell mutagenicity

The mixture contains formaldehyde in a concentration which does not require a classification of the mixture as germ cell mutagen of the category Muta. 2 in accordance with annex VI of Regulation (EC) No 1272/2008 in the current version.

11.1.6 Carcinogenicity

Formaldehyde is classified as carcinogenic of the category Carc. 1B in accordance with annex VI of Regulation (EC) No 1272/2008 in the current version.

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 contains formaldehyde in a concentration which does not require a classification of the mixture as a specific target organ toxicant after single exposure in accordance with annex VI of Regulation (EC) No 1272/2008 in the current version.

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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

Risk of sensitisation of the skin.

Irritant effect on respiratory tract, gastrointestinal tract and skin.

Temporary symptoms such as coughing, headache, nausea and breathing difficulties may occur.

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

May cause cancer.

Risk of sensitisation of the skin.

Irritant effect on respiratory tract, gastrointestinal tract and skin.

Temporary symptoms such as coughing, headache, nausea and breathing difficulties may occur.

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

96 h LC50	(fish)	6.7 mg/l	(Morone saxatilis; striped bass)	(registration dossier)
NOEC 28 d	(fish)	≥ 48 mg/l	(Oryzias latipes; Japanese rice fish)	(formaldehyde) (OECD Test Guideline 215)
48 h EC50	(daphnia)	5.8 mg/l	(Daphnia pulex)	(formaldehyde) (OECD Test Guideline 202)
NOEC 21 d	(daphnia)	≥ 6.4 mg/l	(Daphnia magna)	(formaldehyde) (OECD Test Guideline 211)
72 h EC50	(algae)	5.8 mg/l	(Desmodesmus subspicatus)	(formaldehyde) (OECD Test Guideline 201)

Behaviour in sewage works:

Treat by state-of-the-art technology before discharging into drains.

12.2 Persistence and degradability

The product has not been tested.

Formaldehyde:

biodegradation 99%/28 d (OECD Test Guideline 301 A); readily biodegradable.

Chemical oxygen demand (COD) No data available.

Biochemical oxygen demand (BOD₅) No data available.

TOD No data available.

AOX-hint Not to apply.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water: 0.35 (25°C) (formaldehyde) (registration dossier)

Formaldehyde: bioconcentration factor (BCF): 0.396

Bioaccumulation is not 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.

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. Sewage disposal must be avoided.

Consult the local waste disposal expert about waste disposal.

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 7: Carcinogenic

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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: 16 05 08
Waste notation: Discarded organic chemicals consisting or containing hazardous substances

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**

No dangerous good in accordance with the UN Model Regulations (ADR/RID/ADN/IMDG/ICAO/IATA).

14.2 UN proper shipping name

Not relevant.

14.3 Transport hazard class(es)

Not relevant.

14.4 Packing group

Not relevant.

14.5 Environmental hazards

Not relevant.

14.6 Special precautions for user

Not relevant.

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

Not relevant.

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, No 28 and No 72
- 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: Not relevant
- Fire and explosion hazards: Not relevant
- Regulation on clean air (TA Luft): Number 5.2.5 class I: formaldehyde 0.85%
Number 5.2.7.1.1 carcinogenic substances
WGK 3 – highly 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
- Water hazard class: WGK 3 – highly 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, 10, 14, 16, 18 must be observed
- Banned Chemicals Ordinance: The mixture is subject to this Ordinance.

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

Regulation on Occupational Medical Prevention (ArbMedVV):	Annex, Part 1 (2) d): <u>Prophylaxis offer</u> : for activities involving exposure to carcinogenic substances or mixtures for which workers are to be afforded the opportunity to undergo. Annex, Part 1 (3) a): <u>Subsequent prophylaxis</u> : for activities involving exposure to carcinogenic substances or mixtures for which workers are to be afforded the opportunity to undergo. Annex, Part 1 (2) k): <u>Prophylaxis offer</u> : 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 Substances ¹ :	TRGS 400, 401, 500, 510, 555, 600, 900
Rules of the employers' liability insurance association ² :	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, 2014 ⁴ :	inhalation: hazard group E skin contact: hazard group HC
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:	5818045

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), (6) and (7) 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	
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
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)
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

Trade name:	ArgentQuick, Silver Staining Kit Developer	
Company/Undertaking:	anamed Elektrophorese GmbH	
	Ringstraße 4, D-64401 Gross-Bieberau	
Telephone:	+49-6162-809840	Revision date: 28.02.2020
Product number:	anam0024	

16.4 Literature references and sources for data¹ <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, 11.1.1, 11.1.2, 11.1.3, 12.1, 12.2, 12.3, 15.1.1, 15.1.2, 16.4

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.

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