

Revision date: 28.02.2020
Replacement of version 0017 of 07.01.2019

Version: 0018



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

1.1 *Product identifier*

Trade name **ArgentQuick, Silver Staining Kit
Staining Solution A**

Product number anam0021

Item code GF10011

Formulation Färbelsg A

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

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

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2.2 Label elements

Hazard pictogram(s):



Signal word(s):	Danger	
Product identifier:	ArgentQuick, Silver Staining Kit Staining Solution A contains silver nitrate	
Hazard statements:	H290 H314 H410	May be corrosive to metals. Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting effects.
Precautionary statements:	P273 P280 P301 + P330 + P331 P303 + 361 + P353 P305 + P351 + P338 P310 P391 P501	Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. 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. Collect spillage. Dispose of contents/container to approved waste disposal company or hazardous waste disposal.
Supplemental hazard information:	Not required.	
Remark:	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 - "Corrosive to metals", - "Hazardous to the aquatic environment – Acute of category 1", - "Hazardous to the aquatic environment – Chronic of category 1" may be omitted from the label elements required by Article 17 where the contents of the package do not exceed 125 ml.	

2.3 Other hazards

The product is classified as highly hazardous to water.
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 A

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 on the basis of silver nitrate for gel staining.

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
7761-88-8	231-853-9	silver nitrate	> 5 - < 10	Ox. Sol. 2; H272 Corr. Met. 1; H290 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-factor (Chronic): 100 M-factor: 1000

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

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.

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3.2.4 *Additional information*

None.

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.
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*

After swallowing, gastrointestinal complaints may occur.
Irritating to eyes and skin. Risk of corneal opacity.
After inhalation irritations of mucous membranes.
Chronic overexposure to silver may cause blue or bluish-grey discolouration of the skin, eyes, nose and neck (argyria/argyrosis).

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: 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.
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.

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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.
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 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.
Do not pick up with the help of saw-dust or other combustible material.
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.
Protect from light. Do not allow to dry out.
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.
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 combustible substances.
The information about joint storage given in Table 2 of TRGS 510¹ must be observed.
- 7.2.4** *Further information on storage conditions*
Due to its sensitivity to light the product should be kept in brown glass or refined steel containers.
Protect from sunlight.
Storage temperature: 2 – 8°C. Shelf life: 8 months.
- 7.2.5** *Storage class (for Germany only)*
LGK 12 (non-combustible liquids) 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
7440-22-4	silver, soluble compounds (as Ag)	0.01 mg/m ³ (8 h) indicative occupational exposure limit value 0.1 mg/m ³ 0.03 mg/m ² 0.02 mg/m ³ 0.02 mg/m ³	EU-limit value according to Directive 2006/15/EC Different national limit values - 8 h Sweden Different national limit values - short term Czech Republic Denmark Germany
7761-88-1	silver nitrate (calculated as Ag)	0.01 mg/m ³ 0.03 mg/m ³	National limit values – 8 h Finland National limit values – short term Finland

DNEL values

Additional limit values for silver nitrate in accordance with the registration dossier:

worker, long-term exposition: inhalation, systemic effect:	0.016 mg/m ³
general population, long-term exposition: inhalation, systemic effect:	0.006 mg/m ³
general population, long-term exposition: oral, systemic effect:	0.02 mg/kg

PNEC values

Additional limit values for silver nitrate in accordance with the registration dossier:

aquatic, fresh water:	0.04 µg/l
aquatic, marine water:	0.86 µg/l
aquatic, sewage treatment plant:	0.025 mg/l
sediment, fresh water:	438.13 mg/kg _{dw}
sediment, marine water:	438.13 mg/kg _{dw}
soil environment:	1.41 mg/kg _{dw}

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.

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

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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:	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
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:	no data available
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 sensitive to light (risk of reduction).

10.3 Possibility of hazardous reactions

Reaction with strong oxidising agents possible.

10.4 Conditions to avoid

Exposure to light (reduction) and strong heating (decomposition) has to be avoided.

10.5 Incompatible materials

Reaction with strong oxidising agents possible.

10.6 Hazardous decomposition products

When used as intended, no hazardous decomposition products known.

For hazardous combustion products see subsection 5.2.

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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)	1173	(silver nitrate)	(RTECS)
LD50 rat, dermal	(mg/kg)	> 2000	(silver nitrate)	(OECD Test Guideline 402)
LC50 rat, inhalation	(µg/l/4h)	> 0.75	(silver nitrate)	(OECD Test Guideline 403)

11.1.2 Skin corrosion/irritation

Skin Corr. 1B; causes severe skin burns.

Irritant effect on skin (human) Burns (silver nitrate) (OECD Test Guideline 431)

11.1.3 Serious eye damage/irritation

Eye Dam. 1; causes eye damage.

Irritant effect on eyes (rabbit) Burns (silver nitrate) (external safety data sheet)

11.1.4 Respiratory or skin sensitisation

No evidence of sensitive properties of silver nitrate has been found.

Skin sensitisation (guinea pig) Not sensitising (silver nitrate) (EPA OPPTS 870.2600)

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 does not contain substances 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

Eye contact: eye irritation.

Skin contact: skin irritation.

Silver nitrate, solid:

After inhalation irritations of mucous membranes, coughing and dyspnoea.

After eye contact risk of permanent damage due to staining of the cornea; risk of blindness.

After swallowing burns in mouth, throat, oesophagus and gastrointestinal tract.

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

Chronic overexposure to silver may cause blue or bluish-grey discolouration of the skin, eyes, nose and neck (argyria/argyrosis).

ABSCHNITT 12: Umweltbezogene Angaben

12.1 Toxicity

Aquatic toxicity

96 h LC50	(fish)	silver nitrate	1.2 µg/l	(Pimephales promelas; fathead minnow) (registration dossier)
NOEC	32 d		0.351 µg/l	(Pimephales promelas; fathead minnow) (ASTM E1241-98)
48 h LC50	(daphnia)		0.22 µg/l	(Daphnia magna) (registration dossier)
NOEC	21 d	(daphnia)	0.32 µg/l	(Daphnia magna) (EPA OPPTS 850.1300)
72 h IC50	(algae)		No data available.	

Behaviour in sewage works:

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

12.2 Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Chemical oxygen demand (COD) No data available.

Biochemical oxygen demand (BOD₅) No data available.

AOX-hint Not to apply.

12.3 Bioaccumulative potential

The methods for determining the bioaccumulative potential are not applicable to inorganic substances.

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.

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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, may cause long-term adverse effects in the aquatic environment.

Biological effects: silver nitrate forms corrosive mixtures with water even if diluted.

Nitrates may contribute to the eutrophication of water supplies.

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

List II: silver and silver compounds

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 4 Recycling/reclamation of metals and metal compounds

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

HP 8: Corrosive

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: 06 03 13

Waste notation: Solid salts and solutions containing heavy metals

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 1760

14.2 UN proper shipping name

CORROSIVE LIQUID, N.O.S. (silver nitrate 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

The environmentally hazardous substance mark is necessary.

**14.6 Special precautions for user**

See Sections 6 to 8.

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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: C9

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
Segregation group: Segregation group 7
Heavy metals and their salts (including their organometallic compounds)

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.

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 category E1.
- 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: Annex I, hazard category E1

Fire and explosion hazards: Not relevant

Regulation on clean air (TA Luft): Not relevant

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 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: 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: 5818042

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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**
- H272 May intensify fire; oxidiser.
- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- 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
- ASTM: American Society for Testing and Materials
- 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
- EPA: Environmental Protection Act
- 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)
- NOEC: no observed effect level concentration (höchste Konzentration, bei der keine signifikante Wirkung beobachtet wird)
- OECD: Organisation for Economic Co-operation and Development
- OPPTS: Office of Prevention, Pesticides and Toxic Substances
- 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, 2.2, 8.1, 11.1.1, 11.1.2, 11.1.3, 11.1.4, 12.1, 14.7, 15.1.1, 16.3

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.