

Date of compilation: 28.02.2020

Version: 0001



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

**1.1 Product identifier**

Trade name	<b>anaPAGE Gels</b>
Product number	anam0033
Item code	AP00/18
Formulation	AP10110, AP10112, AP10115, AP10510, AP10512, AP10515, AP12110, AP12112, AP12115, AP12510, AP12512, AP12515, AP41210, AP41212, AP41215, AP41250, AP41252, AP41255
Formulation number	01/20

**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](mailto: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**

Eye Dam. 1; H318

Trade name:	<b>anaPAGE Gels</b>	
Company/Undertaking:	<b>anamed Elektrophorese GmbH</b> <b>Ringstraße 4, D-64401 Gross-Bieberau</b>	
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**2.2 Label elements**

Hazard pictogram(s):



Signal word(s):

Danger

Product identifier:

anaPAGE Gels  
contains 2-[bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)propane-1,3-diol

Hazard statements: H318

Causes serious eye damage.

Precautionary statements: P280  
P305 + P351 + P338 + P310Wear eye protection/face protection.  
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.

Supplemental hazard information:

Not required.

Remark: None.

**2.3 Other hazards**

The product is classified as slightly 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**

REACH registration number:

- 2-[bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)propane-1,3-diol: 01-2120768016-54-XXXX

**3.2.1 Characterisation**

Various forms of comparable **Bistris Gels** are combined with respect to various electrophoresis operations. The products are mixtures. They are precast gels on the basis of polyacrylamide for the separation of proteins and peptides by electrophoresis. Several specific substances are inserted into the low cross-linked polymer.

**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
6976-37-0	230-237-7	2-[bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)propane-1,3-diol	5 - < 10	Eye Dam. 1; H318

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.

**3.2.4 Additional information**

The product contains 1 – 5% sucrose.

National occupational exposure limit values for various EU member states have been assigned (see subsection 8.1).

**SECTION 4: First aid measures****4.1 Description of first aid measures****4.1.1 General information**

Remove contaminated clothing and wash before reuse.  
In the immediate working surroundings emergency 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.

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- 4.1.4 In case of contact with eyes**  
In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist immediately.  
Remove contact lenses, if present and easy to do.
- 4.1.5 In case of ingestion**  
If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting.  
Let water be swallowed in little sips (dilution effect).  
Take medical treatment.
- 4.2 Most important symptoms and effects, both acute and delayed**  
After contact with eyes: causes serious eye damage.
- 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, 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: hydrocarbons, carbon oxides, nitrogen oxides.  
Risk of formation of toxic pyrolysis products.
- 5.3 Advice for firefighters**  
Wear self-contained breathing apparatus.  
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.
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## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
- 6.1.1 For non-emergency personnel**  
Ensure adequate ventilation. Use personal protective clothing.  
Use respiratory protection if exposed to vapours.  
Keep away from unprotected people.
- 6.1.2 For emergency responders**  
For suitable fabric for personal protective clothing see Section 8.
- 6.2 Environmental precautions**  
Do not discharge into the drains, the aquatic environment and soil.
- 6.3 Methods and material for containment and cleaning up**  
Pick up with suitable material. Dispose of absorbed material in accordance with the regulations.  
Send in suitable containers for recovery or disposal.  
Clean contaminated floors and objects thoroughly with plenty of water observing environmental regulations.
- 6.4 Reference to other sections**  
For personal protective equipment see also Section 8.  
For disposal considerations see also Section 13.
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## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling**
- 7.1.1 Advice on safe handling**  
Keep container tightly closed; open and handle with care.  
Avoid contact with eyes and skin.  
Comply with the minimum standards in accordance with TRGS 500<sup>1</sup>.
- 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 and wash before reuse.  
Wash hands before breaks and after work.  
Use barrier skin cream.  
In the immediate working surroundings emergency 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**

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.

The information about joint storage given in Table 2 of TRGS 510<sup>1</sup> must be observed.**7.2.4 Further information on storage conditions**

None.

**7.2.5 Storage class (for Germany only)**LGK 10/11 (combustible liquids/combustible solids) in accordance with TRGS 510<sup>1</sup>.**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
57-50-1	sucrose		<b>National limit values – eight hours</b>
		10 mg/m <sup>3</sup>	Belgium
		10 mg/m <sup>3</sup>	Estonia
		10 mg/m <sup>3</sup>	France
		10 mg/m <sup>3</sup>	Ireland
		10 mg/m <sup>3</sup>	Spain
		10 mg/m <sup>3</sup>	United Kingdom
			<b>National limit values – short term</b>
	Ireland		
	United Kingdom		

**DNEL values****Additional limit values for 2-[bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)propane-1,3-diol in accordance with the registration dossier:**worker, long-term exposition: inhalation, systemic effect: 4.93 mg/m<sup>3</sup>worker, short-term exposition: inhalation, systemic effect: 4.93 mg/m<sup>3</sup>worker, long-term exposition: inhalation, local effect: 10 mg/m<sup>3</sup>worker, long-term exposition: dermal, systemic effect: 1.4 mg/kg<sub>bw</sub>/dworker, short-term exposition: dermal, systemic effect: 1.4 mg/kg<sub>bw</sub>/d

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 402<sup>1</sup>.**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:**

In case of operations where skin contact is possible, wear suitable protective gloves.

Chemical protective gloves needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled.

Information on appropriate protective gloves is currently not available. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

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 112-190<sup>2</sup> (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:	gel (liquid & solid)
Colour:	colourless
Odour:	odourless
Odour threshold:	not relevant
pH (as supplied):	6.2 – 6.6
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):	no data available
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 <sup>3</sup> ):	not determined
Relative density:	not determined
Solubility in water:	miscible
Soluble in:	not determined
Partition coefficient: n-octanol/water:	- 2.26 (2-[bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)propane-1,3-diol) (registration dossier) - 2.70 (sucrose) (LOGKOW® database)
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 possible.

**10.4 Conditions to avoid**

When used as intended, no particular conditions known.

**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)	> 2000	(2-[bis(2-hydroxyethyl)amino]-2-hydroxymethyl)propane-1,3-diol) (OECD Test Guideline 423)
		29700	(sucrose) (RTECS)
LD50 rabbit, dermal	(mg/kg)	No data available.	
LC50 rat, inhalation	(mg/l/4h)	No data available.	

#### 11.1.2 Skin corrosion/irritation

Irritant effect on skin (human) Not irritating (2-[bis(2-hydroxyethyl)amino]-2-hydroxymethyl)propane-1,3-diol)  
(OECD Test Guideline 439)

#### 11.1.3 Serious eye damage/irritation

Eye damage (chicken)  
Eye Dam. 1: Causes serious eye damage.  
(2-[bis(2-hydroxyethyl)amino]-2-hydroxymethyl)propane-1,3-diol (EU method B.48)

#### 11.1.4 Respiratory or skin sensitisation

The product contains substances classified as skin sensitiser and respiratory sensitiser below the generic cut-off values and below generic concentration limits triggering a classification or supplemental labels.

#### 11.1.5 Germ cell mutagenicity

The mixture does not contain substances classified as germ cell mutagens at concentration limits triggering a classification.

#### 11.1.6 Carcinogenicity

The mixture does not contain substances classified as carcinogenic at concentration limits triggering a classification.

#### 11.1.7 Reproductive toxicity

The mixture does not contain substances classified as toxic for the reproduction at concentration limits triggering a classification.

#### 11.1.8 Specific target organ toxicity (STOT)-single exposure

The mixture contains substances classified as being a specific target organ toxicant after single exposure below the generic cut-off values and below generic concentration limits triggering a classification.

#### 11.1.9 Specific target organ toxicity (STOT)-repeated exposure

The mixture contains substances classified as being a specific target organ toxicant after repeated exposure below the generic cut-off values and below generic concentration limits triggering a classification.

#### 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 contact with eyes: causes serious eye damage.

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

After contact with eyes: causes serious eye damage.

## ABSCHNITT 12: Umweltbezogene Angaben

### 12.1 Toxicity

#### Aquatic toxicity

96 h LC50	(fish)	> 100 mg/l	(Danio rerio; zebrafish) (2-[bis(2-hydroxyethyl)amino]-2-hydroxymethyl)propane-1,3-diol) (OECD Test Guideline 203)
48 h EC50	(daphnia)	> 100 mg/l	(Daphnia magna) (2-[bis(2-hydroxyethyl)amino]-2-hydroxymethyl)propane-1,3-diol) (OECD Test Guideline 202)
72 h EC50	(algae)	> 100 mg/l	(Pseudokirchneriella subcapitata) (2-[bis(2-hydroxyethyl)amino]-2-hydroxymethyl)propane-1,3-diol) (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.

Chemical oxygen demand (COD) No data available.

Biochemical oxygen demand (BOD<sub>5</sub>) No data available.

AOX-hint Not to apply.

### 12.3 Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water:	- 2.26	(2-[bis(2-hydroxyethyl)amino]-2-(hydroxymethyl)propane-1,3-diol) (registration dossier)
	- 2.70	(sucrose) (LOGKOW® database)

No bioaccumulation is to be expected.

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**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 slightly 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.

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**

Not relevant.

**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 09

Waste notation: Discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

**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 06

Waste notation: Mixed packaging

**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.

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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 in concentrations of more or equal than 0.1%.

- Conditions of restriction in accordance with Regulation (EC) No 1907/2006: Annex XVII: No 3
- Observe employment restrictions under the law for the protection of young people at work (94/33/EC).
- Observe Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

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

- Restriction of occupation: Youth Employment Protection Act has to be observed.
- Major-accident Ordinance: Not relevant
- Fire and explosion hazards: Not relevant
- Regulation on clean air (TA Luft): Not relevant
- Water hazard class: WGK 1 – slightly hazardous to water (deduction of the WGK according to Annex 1 No 5.2 AwSV)<sup>3</sup>  
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 Substances<sup>1</sup>: TRGS 400, 402, 500, 510, 555, 600
- Rules of the employers' liability insurance association<sup>2</sup>: DGUV Regel 112-189, 112-190, 112-192, 112-195
- 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).

### 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* H318 Causes serious eye damage.
- 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
  - 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*

- <http://www.baua.de>
- <http://www.arbeitssicherheit.de>
- <http://www.umweltbundesamt.de>



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**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.

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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