

Revision date: 28.02.2020
Replacement of version 0015 of 07.01.2019

Version: 0016



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

1.1 *Product identifier*

Trade name	ProGel
Product number	anam0001
Item code	TG04110, 04112, 04115, 04510, 04512, 04515 TG06110, 06112, 06115, 06510, 06512, 06515 TG08101, 08110, 08112, 08115, 08510, 08512, 08515 TG10101, 10102, 10105, 10110, 10112, 10115, 10510, 10512, 10515 TG12010, 12012, 12015, 12050, 12052, 12055, 12101, 12102, 12105, 12110, 12112, 12115, 12510, 12512, 12515 TG14110, 14112, 14115, 14510, 14512, 14515 TG16105, 16110, 16112, 16115, 16510, 16512, 16515 TG18110, 18112, 18115, 18117, 18510, 18512, 18515 TG41210, 41212, 41215, 41250, 41252, 41255 TG42001, 42002, 42005, 42010, 42012, 42015, 42050, 42052, 42055 TG81602, 81605, 81610, 81612, 81615, 81650, 81652, 81655, 81692
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*

The mixture does not meet the criteria for a classification as hazardous in accordance with the current version of Regulation (EC) No 1272/2008.

2.2 *Label elements*

Hazard pictogram(s):	No pictogram
Signal word(s):	No signal word
Product identifier:	Not required
Hazard statements:	Not required
Precautionary statements:	Not required
Supplemental hazard information:	Not required

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Company/Undertaking:	anamed Elektrophorese GmbH Ringstraße 4, D-64401 Gross-Bieberau	
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2.3 *Other hazards*

Possible health hazard if not used correctly.

Irritant effect on eyes and skin cannot be ruled out.

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:

- Trometamol:

01-2119957659-16-XXXX

3.2.1 *Characterisation*

Various forms of comparable **Tris/Glycine Gels** and **Tris/Glycine Gradient Gels** are combined with respect to various electrophoresis operations.

The products are mixtures. They are pre-cast gels on the basis of loosely crosslinked polyacrylamide and several special substances.

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

The mixture does not contain substances above cut-off values in accordance with Regulation (EC) No 1272/2008 above which this substances shall be indicated under this point.

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 5 – 10% trometamol.

DNEL/PNEC values have been assigned for this substance (see subsection 8.1).

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*

Change contaminated clothing and wash before reuse.

Emergency eyewash should be provided in the immediate working surroundings.

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.

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).

Put victim at rest. Take medical treatment immediately.

4.2 *Most important symptoms and effects, both acute and delayed*

Irritant effect on eyes and skin cannot be ruled out.

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. Flush away residues with plenty of water.
- 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**
The normal safety precautions for handling of chemicals must be observed. Avoid contact with eyes and skin.
Comply with the minimum standards in accordance with TRGS 500¹.
- 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. Change contaminated clothing and wash before reuse.
Wash hands before breaks and after work. Use barrier skin cream.
Emergency eyewash should be provided in the immediate working surroundings.
- 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.
- 7.2.3 Advice on storage compatibility**
The information about joint storage given in Table 2 of TRGS 510¹ must be observed.
- 7.2.4 Further information on storage conditions**
None.
- 7.2.5 Storage class (for Germany only)**
LGK 11 (combustible solids) 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 No	Identification	Limit values	Remarks
57-50-1	sucrose	10 mg/m ³ 10 mg/m ³ 10 mg/m ³ 10 mg/m ³ 10 mg/m ³ 10 mg/m ³	National limit values – eight hours Belgium Estonia France Ireland Spain United Kingdom
		20 mg/m ³ 20 mg/m ³	National limit values – short term Ireland United Kingdom

DNEL values

Additional limit values for trometamol in accordance with the registration dossier:

worker, long-term exposition: inhalation, systemic effect: 117.5 mg/m³
 worker, long-term exposition: dermal, systemic effect: 166.7 mg/kg_{bw}/d
 general population, long-term exposition: inhalation, systemic effect: 29 mg/m³
 general population, long-term exposition: dermal, systemic effect: 83.3 mg/kg_{bw}/d
 general population, long-term exposition: oral, systemic effect: 8.3 mg/kg_{bw}/d

PNEC values

Additional limit values for trometamol in accordance with the registration dossier:

aquatic, sewage treatment plant: 300 mg/l
 The methods for measuring chemical agents in workplace atmosphere must meet the general requirements of EN 481, 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 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.

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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	gel (solid)		
Colour:	colourless		
Odour:	odorless		
Odour threshold:	no relevant		
pH (as supplied):	8.5 – 8.8		
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):	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 ³):	not determined		
Relative density:	not determined		
Solubility in water:	miscible		
Soluble in:	not determined		
Partition coefficient: n-octanol/water:	- 2.3 (20°C) (trometamol)	(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

When used as intended, no hazardous reactions known.

10.4 Conditions to avoid

When used as intended, no particular conditions known.

10.5 Incompatible materials

No information available for the product.

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)	> 5000	(trometamol)	(OECD Test Guideline 425)
		29700	(sucrose)	(RTECS)
LD50 rat, dermal	(mg/kg)	> 5000	(trometamol)	(OECD Test Guideline 402)
LC50 rat, inhalation	(mg/l/4h)	No data available.		

11.1.2 Skin corrosion/irritation

Irritant effect on skin, rabbit Not irritating (trometamol) (OECD Test Guideline 404)

11.1.3 Serious eye damage/irritation

Irritant effect on eyes, rabbit Not irritating (trometamol) (OECD Test Guideline 405)

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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

Irritant effect on eyes and skin cannot be ruled out if the product is not used correctly.

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

Irritant effect on eyes and skin cannot be ruled out if the product is not used correctly.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:**

96 h LC50 (fish)	No data available.		
48 h EC50 (daphnia)	> 980 mg/l	(Daphnia magna)	(OECD Test Guideline 202)
72 h EC50 (algae)	397 mg/l	(Pseudokirchneriella subcapitata)	(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.

Trometamol: biodegradation 100.7%, exposure time 28 days (OECD Test Guideline 301 F); readily biodegradable.

Chemical oxygen demand (COD) No data available.

Biochemical oxygen demand (BOD5) No data available.

AOX-hint Not to apply.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water:	- 2.3 (20°C)	(trometamol)	(registration dossier)
	- 2.70	(sucrose)	(LOGKOW® database)

Bioaccumulation is not 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 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.

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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

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.

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

Restriction of occupation:	Not relevant
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) 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):

Article 6 must be observed
Articles 7, 8 and 14 must be observed as required

Technical Rules for Hazardous Substances¹:

TRGS 400, 500, 510

Rules of the employers' liability insurance association²:

DGUV Regel 112-190, 112-192, 112-195

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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)** Not relevant
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**
Not to apply.
- 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 |
| 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**
- <http://www.baua.de>
 - <http://www.arbeitssicherheit.de>
 - <http://www.umweltbundesamt.de>
- 16.5 Method used for the classification of the mixture**
The product does not meet the criteria for a classification as hazardous in accordance with the current version 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, 3.2.1, 8.1, 9.1, 11.1.1, 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.