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

VALID FROM:

1.1 **Product identifier**

Product form : Mixture

Product name GM501 Gradient 100% Product code 4 GM 501G-100-XX

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Industrial/Professional use spec For professional use only.

Use of the substance/mixture GM501 Gradient 100 % can be used for semen preparation in combination with IUI, IVF and

ICSI.

Uses advised against

No additional information available.

Details of the supplier of the material safety data sheet

Gynemed GmbH & Co. KG Lübecker Straße 9 D-23738 Lensahn Germany

info@gynemed.de

1.4 **Emergency telephone number**

Emergency number +49 (0)4363 90 32 90

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available.

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable.

2.3 Other hazards

No additional information available.

SECTION 3: Composition/information on ingredients

3.1 **Substance**

Not applicable

3.2 Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No.
			1272/2008 [CLP]
Ultrapure water	(CAS No) 7732-18-5	< 20	Not classified
	(EC No) 231-791-2		
Calcium chloride	(CAS No) 10035-04-8	< 1	Eye Irrit. 2, H319
dihydrate			
Potassium Chloride	(CAS No) 7447-40-7	<1	Not classified
	(EC No) 231-211-8		
Magnesium Sulphate	(CAS No) 10034-99-8	< 1	Not classified
Heptahydrate			
Sodium Chloride	(CAS No) 7647-14-5	<1	Not classified
	(EC No) 231-598-3		
Sodium Dihydrogen	(CAS No) 13472-35-0	<1	Not classified
Phosphate Dihydrate			
Glucose monohydrate	(CAS No) 14431-43-7	<1	Not classified
Sodium Hydrogen	(CAS No) 144-55-8	<1	Not classified
Carbonate	(EC No) 205-633-8		
HEPES	(CAS No) 7365-45-9	<1	Not classified
	(EC No) 230-907-9		
Sodium Pyruvate	(Cas No) 113-24-6	<1	Not classified
	(EC No) 204-024-4		
Silica Basic Solution	not applicable	90-99	Not classified
Full text of H-phrases: see	section 16		

Comments The media do not contain any raw materials of direct animal-origin or materials that have been produced using animal-origin components. Components have not been in contact with material of animal origin during processing and therefore pose no TSE risk.



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SECTION 4: First aid measures

Description of first aid measures

First-aid measures general Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation Assure fresh air breathing. Allow the victim to rest.

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First-aid measures after skin contact Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

Rinse immediately with plenty of water for at least 15 minutes. Obtain medical attention if First-aid measures after eye contact

pain, blinking or redness persists.

Rinse mouth. Do NOT induce vormiting. Obtain emergency medical attention. First-aid measures after ingestion

Most important symptoms and effects, both acute and delayed

Not expected to present a significant hazard under anticipated conditions of normal use. Symptoms/injuries

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

Extinguishing media

Foam. Dry powder. Carbon dioxide. Water spray. Sand. Suitable extinguishing media

Unsuitable extinguishing media Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture

No additional information available.

5.3 Advice for firefighters

Firefighting instructions Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

For emergency responders

Protective equipment Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up Collect spillage. Store away from other materials.

6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or Precautions for safe handling

smoking and when leaving work. Provide good ventilation in process area to prevent

formation of vapour.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Keep only in the original container in a cool ventilated place away from direct (sun)light.

Keep container closed when not in use.

Do not freeze. Do not use after expiry date. The product can be safely used up to 7 days after opening the container when sterile conditions are maintained and the products are stored at

2-8°C. Content cannot be resterilized after opening.

Incompatible products Strong bases, Strong acids,

Incompatible materials Sources of ignition. Direct (sun)light. 2-8°C

Storage temperature

7.3 Specific end use(s)

See instruction for use delivered with the device.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

Obtain medical attention if any discomfort should occur.

8.2 **Exposure controls**

Handle in accordance with good industrial hygiene and safety. Avoid all unnecessary Appropriate engineering controls

exposure.



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Personal protective equipment

Skin protection

Wear fire/flame resistant/retardant clothing.

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Complete suit protecting against chemicals, flame retardant antistatic protective clothing. The type of protection must be selected according to the concentration and volume of the

dangerous substance at the specific workplace.

Hand protection Wear protective gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good

laboratory practices. Wash and dry hands.

The selected protective gloves have to meet the specifications of regulation EU 2016/425 and

the standard FN374.

Eye/Face protection Face shield and safety glasses. Use equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166 (EU).

Respiratory protection Wear appropriate mask. Where risk assessment shows air-purifying respirators are

appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN

(EU).

Other information Do not eat, drink or smoke during use. Do not pipette liquid using a mouth pipette.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Liauid

Colour Bluish hazy solution.

Odour Odourless No data available Odour threshold

7.20 - 7.90 (release criteria: 7.20-7.60)

Relative evaporation rate (butylacetate=1) No data available Melting point No data available No data available Freezing point No data available **Boiling point** No data available Flash point No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) Non flammable No data available Vapour pressure Relative vapour density at 20°C No data available Relative density 1.1150-1.1250 g/ml Solubility Soluble in water. Partition coefficient n-octanol/water (Log Pow) No data available Viscosity < 1.75 cP **Explosive properties** No data available Oxidising properties No data available

9.2 Other information

No additional information available.

SECTION 10: Stability and reactivity

Reactivity

Explosive limits

No additional information available.

10.2 **Chemical stability**

Stable after transport (max. 5 days) at elevated temperature (≤ 37 °C). Stable for 18 months from date of manufacture.

No data available

10.3 Possibility of hazardous reactions

Not established.

10.4 Conditions to avoid

Direct (sun)light. Extremely high or low temperatures.

10.5 **Incompatible materials**

Strong acids. Strong bases.

10.6 Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity Not classified.

Extensive data on Sperm Survival Test have demonstrated that the medium is not toxic. The product has been evaluated for its toxicity by an independent test laboratory using the AGAR Diffusion test. The medium meets the requirements of the ISO 10993-5 guidelines.



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Skin/eye/mucosa corrosion/irritation

Not classified.

Not classified.

The product has been evaluated for its irritating potential by an independent test laboratory using the primary vaginal test-repeated exposure. The medium meets the requirements of

the ISO 10993-10 guidelines.

Respiratory or skin sensitization

The product has been evaluated for its sensitizing potential by an independent test

laboratory using the Kligman maximization test. The medium meets the requirements of the

ISO 10993 guidelines.

Germ cell mutagenicity Not classified. Carcinogenicity Not classified. Reproductive toxicity Not classified. Specific target organ toxicity (single exposure) Not classified.

The product has been evaluated for its biological reaction by an independent test laboratory

using the systemic injection test (single dose). The medium meets the requirements of the

ISO 10993 guidelines.

Specific target organ toxicity (repeated

exposure)

Not classified.

Not classified.

Aspiration hazard

Potential adverse human health effects and

symptoms

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 **Toxicity**

Not classified.

12.2 Persistence and degradability

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Persistence and degradability Not established

12.3 **Bioaccumulative potential**

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Bioaccumulative potential Not established

12.4 Mobility in soil

No additional information available

12.5 Results of PBT and vPvB assessment

No additional information available

Other adverse effects 12.6

Avoid release to environment

SECTION 13: Disposal considerations

Waste treatment methods

Dispose in a safe manner in accordance with local/national regulations. Product/Packaging disposal recommendations

Ecology - waste materials Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

UN number 14.1

Not regulated for transport

14.2 UN proper shipping name

Not applicable Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Not applicable Proper Shipping Name (IATA) Not applicable Proper Shipping Name (ADN) Not applicable Proper Shipping Name (RID) Not applicable

Transport hazard class(es)

Transport hazard class(es) (ADR) Not applicable Transport hazard class(es) (IMDG) Not applicable Not applicable Transport hazard class(es) (IATA) Transport hazard class(es) (ADN) Not applicable Transport hazard class(es) (RID) Not applicable

Packing group

Packing group (ADR) Not applicable Packing group (IMDG) Not applicable Packing group (IATA) Not applicable Packing group (ADN) Not applicable Packing group (RID) Not applicable



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14.5 Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6 Special precautions for user

Not applicable

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

Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU-Regulations

Contains no REACH substances with Annex XVII restrictions.

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of June 2019 on persistent organic pollutants.

15.1.2 National regulations

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-list of carcinogenic substances : None of the components are listed SZW-list of mutagenic substances : None of the components are listed NON-exhaustive list of reproductive toxins - Breastfeeding : None of the components are listed NON-exhaustive list of reproductive toxins - Fertility : None of the components are listed NON-exhaustive list of reproductive toxins - Development : None of the components are listed

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Data sources REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of

16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation

(EC) No 1907/2006.

Other information : None

Full text of H- and EUH-phrases

Eye Irrit. 2 Serious eye damage/eye irritation, Category 2

H319 Causes serious eye irritation

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.