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VALID FROM: 24/07/2023

GM501 GRADIENT 45% / GM501 GRADIENT 90% SAFETY DATA SHEET GM501 GRADIENT 45% / GM501 GRADIENT 90%

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

### 1.1 Product identifier

Product form : Mixture

 Product name
 : GM501 Gradient 45% / GM501 Gradient 90%

 Product code
 : 4 GM 501G-45-XX / 4 GM 501G-90-XX

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

### 1.2.1 Relevant identified uses

Industrial/Professional use spec : For professional use only.

Use of the substance/mixture : GM501 Gradient 45 % and 90 % is a gradient system for semen preparation. GM501 Gradient

45 % and 90 % can be used in combination with IUI, IVF and ICSI.

#### 1.2.2. Uses advised against

No additional information available.

### 1.3 Details of the supplier of the material safety data sheet

Gynemed GmbH & Co. KG Wagrienring 24b D-23730 Sierksdorf Germany

info@gynemed.de

# 1.4 Emergency telephone number

Emergency number : +49 (0)4561 51325 00

# **SECTION 2: Hazards identification**

### 2.1 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.

# 2.2 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

J.E WIIXEGIC			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ultrapure water	(CAS No) 7732-18-5	10 - 45	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	45 (Gradient 45 %)	Not classified
		90 (Gradient 90 %)	



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Phenol Red Sodium Salt	(Cas No) 34487-61-1		< 1	Skin Irrit. 2, H315			
				Eye irrit. 2, H319			
				Stot.se 3, H335			
Full text of H-phrases: see section 16							
Comments :		produc	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.				

### **SECTION 4: First aid measures**

### 4.1 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.

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.

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

blinking or redness persists.

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

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

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

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available.

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media

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

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**

# 6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2 For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2 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

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

Storage temperature : 2-8°C



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#### 7.3 Specific end use(s)

See instruction for use delivered with the device.

### SECTION 8: Exposure controls/personal protection

### **Control parameters**

Obtain medical attention if any discomfort should occur.

### Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety. Avoid all unnecessary exposure.

Personal protective equipment Wear fire/flame resistant/retardant clothing.

Skin protection 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 EN374.

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).

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

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 Liquid

Colour Reddish hazy solution

Odour Odourless

Odour threshold No data available рΗ 7.20 - 7.90 (release criteria: 7.20-7.60)

Relative evaporation rate (butylacetate=1) No data available No data available Melting point Freezing point No data available **Boiling point** No data available Flash point No data available No data available Auto-ignition temperature Decomposition temperature No data available Non flammable Flammability (solid, gas) Vapour pressure No data available No data available

Gradient 90%: 1.1050-1.1150 g/ml Relative density

Solubility Soluble in water. Partition coefficient n-octanol/water (Log Pow) No data available Gradient 90%: < 1.65 cP Viscosity **Explosive properties** No data available Oxidising properties No data available **Explosive limits** No data available

#### 9.2 Other information

Relative vapour density at 20°C

No additional information available.

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

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.

#### 10.3 Possibility of hazardous reactions

Not established.

#### 10.4 Conditions to avoid

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

# **Incompatible materials**

Strong acids. Strong bases.



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#### 10.6 **Hazardous decomposition products**

Fume. Carbon monoxide. Carbon dioxide.

### **SECTION 11: Toxicological information**

Information on toxicological effects

Not classified. Acute toxicity

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.

Skin/eye/mucosa corrosion/irritation 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 Not classified.

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 Not classified. exposure) Aspiration hazard Not classified.

Potential adverse human health effects and Based on available data, the classification criteria are not met.

symptoms

# **SECTION 12: Ecological information**

#### 12.1 **Toxicity**

Not classified.

#### 12.2 Persistence and degradability

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Persistence and degradability Not established

**Bioaccumulative potential** 

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Not established Bioaccumulative potential

12.4 Mobility in soil

No additional information available

Results of PBT and vPvB assessment

No additional information available

12.6 Other adverse effects

Avoid release to environment

# **SECTION 13: Disposal considerations**

Waste treatment methods

Product/Packaging disposal recommendations

Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials Avoid release to the environment.

### **SECTION 14: Transport information**

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

14.1 UN number

Not regulated for transport

14.2 **UN proper shipping name** 

Proper Shipping Name (ADR) Not applicable 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) 14.3

Transport hazard class(es) (ADR) Not applicable Transport hazard class(es) (IMDG) Not applicable



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Transport hazard class(es) (IATA) : Not applicable Transport hazard class(es) (ADN) : Not applicable Transport hazard class(es) (RID) : Not applicable

14.4 Packing group

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

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

SZW-list of mutagenic substances

NON-exhaustive list of reproductive toxins - Breastfeeding

NON-exhaustive list of reproductive toxins - Fertility

NON-exhaustive list of reproductive toxins - Development

NON-exhaustive list of reproductive toxins - Development

None of the components are listed

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
Skin Irrit. 2, Skin corrosion/irritation, Category 2

H315 Causes skin irritation

Stot.se 3 Specific Target Organ Toxicity – Single exposure, Category 3, Respiratory tract irritation

H335 May cause respiratory 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.