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GM501 HYALURONIDASE SAFETY DATA SHEET GM501 HYALURONIDASE

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

1.1 Product identifier

Product code

Product form : Mixture

Product name : GM501 Hyaluronidase

: 4 HY 0010 4 HY 0001-5

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 : Medium used in the oocyte denudation process in preparation of ICSI or other ART

procedures.

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 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

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hyaluronidase	(CAS No) 37326-33-3	80 IU/ml	Not classified
(from bovine	(EC No) 253-464-3		
source)			
Ultrapure	(CAS No) 7732-18-5	≥ 99	Not classified
water	(EC No) 231-791-2		
Sodium	(CAS No) 7647-14-5	< 1	Not classified
Chloride	(EC No) 231-598-3		
HEPES	(CAS No) 7365-45-9	< 1	Not classified
	(EC No) 230-907-9		
Human Serum	(CAS No) 70024-90-7	< 1	Not classified
Albumin			
Sodium	(CAS No) 867-56-1	< 1	Not classified
lactate	(EC No) 212-762-3		
Glucose	(CAS No) 14431-43-7	< 1	Not classified
monohydrate			
Sodium	(CAS No) 144-55-8	< 1	Not classified
Hydrogen	(EC No) 205-633-8		
Carbonate			
Potassium	(CAS No) 7447-40-7	< 1	Not classified
Chloride	(EC No) 231-211-8		
Calcium	(CAS No) 10035-04-8	< 1	Eye Irrit. 2, H319
chloride			
dihydrate			



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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium	(CAS No) 13472-35-0	< 1	Not classified
Dihydrogen			
Phosphate			
Dihydrate			
Magnesium	(CAS No) 10034-99-8	< 1	Not classified
Sulphate			
Heptahydrate			
Sodium	(CAS-No.) 113-24-6	< 1	Not classified
Pyruvate	(EC-No.) 204-024-4		
Full text of H-sta	atements: see section 16		
Comments	: The h	nvaluronidase	used in this product is derived from boyine testis is certified with a TSE risk evaluation

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SECTION 4: First aid measures

4.1 Description of first aid measures

First-aid measures general

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 : Allow affected person to breathe fresh air. 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/effects : 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 the 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.

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, well ventilated place away from direct

(sun)light.

 $\label{eq:Keep container closed when not in use.}$

Do not freeze.



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Do not use after the expiry date.

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After opening the container, the product can be used up to 7 days 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 sunlight.

Storage temperature : 2-8°C

7.3 Specific end use(s)

See instructions for use delivered with the device.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No additional information available.

8.2 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 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).

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).

No data available

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 : White/Yellow transparent liquid.

Odour Odourless. Odour threshold No data available 7.3 - 7.9Ηα Relative evaporation rate (butylacetate=1) No data available Melting point No data available No data available Freezing point **Boiling** point No data available Flash point No data available No data available

Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) Non flammable. Vapour pressure No data available Relative vapour density at 20°C No data available No data available Relativ density Highly soluble in water. Solubility Partition coefficient n-octanol/water (Log Pow) No data available No data available Viscosity, kinematic No data available Viscosity, dynamic **Explosive properties** No data available Oxidising properties No data available :

9.2 Other information

Explosive limits

No additional information available.



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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 12 months from date of manufacture.

10.3 Possibility of hazardous reactions

Not established.

Conditions to avoid 10.4

Direct sunlight. 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 (oral) Not classified

Acute toxicity (dermal) Extensive data on Mouse Embryo Assay have demonstrated that the medium is not toxic. Acute toxicity (inhalation)

In addition, the product has been evaluated for its cytotoxicity potential by an independent test laboratory using a XTT cytotoxicity test according to the ISO 10993-5 guidelines. The

medium was considered non-cytotoxic.

Skin corrosion/irritation Not classified Serious eye damage/irritation Not classified Not classified Respiratory or skin sensitisation Germ cell mutagenicity Not classified Not classified Carcinogenicity Reproductive toxicity Not classified Not classified Specific target organ toxicity (single exposure) : Specific target organ toxicity (repeated Not classified exposure)

Aspiration hazard

Potential adverse human health effects and

symptoms

Other information

Not classified

:

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

Human Serum Albumin: The plasma which is the source of the human serum albumin is tested for antibodies to HIV and HCV and non-reactive for HbsAg, HBV RNA, HCV RNA, HIV-1 RNA and syphilis. The albumin agrees with all the requirements set forth by the European and United States health authority regarding safety.

Hyaluronidase: The hyaluronidase used in this product is extracted and purified from bovine testes. The testes were collected from animals which were found healthy by pre- and postmortem inspection and which were exempt from Bovine Spongiform Encephalopathy

Route of exposure: Under normal conditions there is no exposure to the product.

SECTION 12: Ecological information

12.1 **Toxicity**

Not classified.

12.2 Persistence and degradability

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Persistence and degradability Not established

Sodium Chloride (7647-14-5)

Persistence and degradability Not established

12.3 Bioaccumulative potential

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Bioaccumulative potential Not established

Sodium Chloride (7647-14-5)

Bioaccumulative potential Not established

Mobility in soil

No additional information available



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12.5 Results of PBT and vPvB assessment

No additional information available

12.6 Other adverse effects

Avoid release to environment

SECTION 13: Disposal considerations

13.1 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

14.3 Transport hazard class(es)

Transport hazard class(es) (ADR) : Not applicable Transport hazard class(es) (IMDG) : Not applicable 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 applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing 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 4 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 20 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)

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.



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SECTION 16: Other information

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

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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-statements:

Eye Irrit. 2 Serious eye damage/eye irritation, Category 2
H319 _H_319_EU: 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.