

VALID FROM: 11/12/2019

GENTLEVIT FREEZE KIT SAFETY DATA SHEET GENTLEVIT FREEZE KIT

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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 : GentleVit Freeze Kit

(GentleVit Pre-Vitrification Medium, GentleVit Freeze Medium 1-5)

Product code : 4 GVF KIT1

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 : Universal cell culture media for the vitrification of human oocytes and embryos.

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]

EUH phrases EUH210 – Safety data sheet available on request

2.3 Other hazards

No additional information available.

SECTION 3: Composition/information on ingredients

3.1 Substance

Not applicable

3.2 Mixture

GentleVit Pre-Vitrification Medium

Name	Product identifier	%	Classification according to
			Regulation (EC) No. 1272/2008
			[CLP]
Ultrapure water	(CAS No) 7732-18-5	90 - 99	Not classified
	(EC No) 231-791-2		
Human Serum Albumin	(CAS No) 70024-90-7	2	Not classified
Sodium Chloride	(CAS No) 7647-14-5	0.1 - 1	Not classified
	(EC No) 231-598-3		
HEPES	(CAS No) 7365-45-9	0.1 - 1	Not classified
	(EC No) 230-907-9		
Sodium lactate	(CAS No) 867-56-1	0.1 - 1	Not classified
	(EC No) 212-762-3		
D- (+)- Glucose	(CAS No) 50-99-7	< 0.1	Not classified
	(EC No) 200-075-1		
Sodium Hydrogen Carbonate	(CAS No) 144-55-8	< 0.1	Not classified
	(EC No) 205-633-8		
Sodium Pyruvate	(CAS No) 113-24-6	< 0.1	Not classified
	(EC No) 204-024-4		
Potassium Chloride	(CAS No) 7447-40-7	< 0.1	Not classified
	(EC No) 231-211-8		
Calcium Chloride Dihydrate	(CAS No)10035-04-8	< 0.1	Eye Irrit. 2, H319
Potassium Dihydrogen Phosphate	(CAS No) 7778-77-0	< 0.1	Not classified
	(EC No) 231-913-4		
Magnesium Sulphate	(CAS No) 10034-99-8	< 0.1	Not classified



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Name	Product identifier		%	Classification according to	
				Regulation (EC) No. 1272/2008	
				[CLP]	
Heptahydrate					
Full text of H-phrases: see section 16					
Comments	:	The media do not con	tain any raw materials of direct a	nimal-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.			

GentleVit Freeze Medium 1

Gentievit Freeze Medium 1			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ultrapure water	(CAS No) 7732-18-5 (EC No) 231-791-2	90 - 99	Not classified
Dimethyl sulphoxide (DMSO)	(CAS No) 67-68-5	1.25	Not classified
Ethylene Glycol	(CAS No) 107-21-1 (EC No) 203-473-3 (EC Index No) 603-027-00-1	1.25	Acute Tox. 4 (Oral), H302
Human Serum Albumin	(CAS No) 70024-90-7	2	Not classified
Sodium Chloride	(CAS No) 7647-14-5 (EC No) 231-598-3	0.1 - 1	Not classified
HEPES	(CAS No) 7365-45-9 (EC No) 230-907-9	0.1 - 1	Not classified
Sodium lactate	(CAS No) 867-56-1 (EC No) 212-762-3	0.1 - 1	Not classified
D- (+)- Glucose	(CAS No) 50-99-7 (EC No) 200-075-1	< 0.1	Not classified
Sodium Hydrogen Carbonate	(CAS No) 144-55-8 (EC No) 205-633-8	< 0.1	Not classified
Sodium Pyruvate	(CAS No) 113-24-6 (EC No) 204-024-4	< 0.1	Not classified
Potassium Chloride	(CAS No) 7447-40-7 (EC No) 231-211-8	< 0.1	Not classified
Calcium Chloride Dihydrate	(CAS No)10035-04-8	< 0.1	Eye Irrit. 2, H319
Potassium Dihydrogen Phosphate	(CAS No) 7778-77-0 (EC No) 231-913-4	< 0.1	Not classified
Magnesium Sulphate Heptahydrate	(CAS No) 10034-99-8	< 0.1	Not classified
Full text of H-phrases: see section 1	6		
Comments	been produced using a	•	ect animal-origin or materials that hav mponents have not been in contact wit efore pose no TSE risk.

material of animal origin during processing and therefore pose no TSE risk.

GentleVit Freeze Medium 2

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Ultrapure water	(CAS No) 7732-18-5 (EC No) 231-791-2	90 - 99	Not classified	
Dimethyl sulphoxide (DMSO)	(CAS No) 67-68-5	2.5	Not classified	
Ethylene Glycol	(CAS No) 107-21-1 (EC No) 203-473-3 (EC Index No) 603-027-00-1	2.5 Acute Tox. 4 (Oral), H3		
Human Serum Albumin	(CAS No) 70024-90-7	2	Not classified	
Sodium Chloride	(CAS No) 7647-14-5 (EC No) 231-598-3	0.1 - 1	Not classified	
HEPES	(CAS No) 7365-45-9 (EC No) 230-907-9	0.1 - 1	Not classified	
Sodium lactate	(CAS No) 867-56-1 (EC No) 212-762-3	0.1 - 1	Not classified	
D- (+)- Glucose	(CAS No) 50-99-7 (EC No) 200-075-1	< 0.1	Not classified	
Sodium Hydrogen Carbonate	(CAS No) 144-55-8 (EC No) 205-633-8	< 0.1	Not classified	
Sodium Pyruvate	(CAS No) 113-24-6 (EC No) 204-024-4	< 0.1	Not classified	
Potassium Chloride	(CAS No) 7447-40-7	< 0.1	Not classified	



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Name	Product identifier		uct identifier	%	Classification according to Regulation (EC) No. 1272/2008
					[CLP]
	(EC No) 231-211-8				
Calcium Chloride Dihydrate	(CAS No)10035-04-8			< 0.1	Eye Irrit. 2, H319
Potassium Dihydrogen Phosphate	(CAS No) 7778-77-0			< 0.1	Not classified
	(EC No) 231-913-4				
Magnesium Sulphate	(CAS No) 10034-99-8			< 0.1	Not classified
Heptahydrate					
Full text of H-phrases: see section 16	5				
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.			

GentleVit Freeze Medium 3

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Ultrapure water	(CAS No) 7732-18-5	80 - 89	Not classified	
	(EC No) 231-791-2			
Dimethyl sulphoxide (DMSO)	(CAS No) 67-68-5	5	Not classified	
Ethylene Glycol	(CAS No) 107-21-1	5	Acute Tox. 4 (Oral), H302	
	(EC No) 203-473-3			
	(EC Index No) 603-027-00-1			
Human Serum Albumin	(CAS No) 70024-90-7	1.8	Not classified	
Sodium Chloride	(CAS No) 7647-14-5	0.1 - 1	Not classified	
	(EC No) 231-598-3			
HEPES	(CAS No) 7365-45-9	0.1 - 1	Not classified	
	(EC No) 230-907-9			
Sodium lactate	(CAS No) 867-56-1	0.1 - 1	Not classified	
	(EC No) 212-762-3			
D- (+)- Glucose	(CAS No) 50-99-7	< 0.1	Not classified	
	(EC No) 200-075-1			
Sodium Hydrogen Carbonate	(CAS No) 144-55-8	< 0.1	Not classified	
	(EC No) 205-633-8			
Sodium Pyruvate	(CAS No) 113-24-6	< 0.1	Not classified	
	(EC No) 204-024-4			
Potassium Chloride	(CAS No) 7447-40-7	< 0.1	Not classified	
	(EC No) 231-211-8			
Calcium Chloride Dihydrate	(CAS No)10035-04-8	< 0.1	Eye Irrit. 2, H319	
Potassium Dihydrogen Phosphate	(CAS No) 7778-77-0	< 0.1	Not classified	
, , ,	(EC No) 231-913-4			
Magnesium Sulphate Heptahydrate	(CAS No) 10034-99-8	< 0.1	Not classified	
Full text of H-phrases: see section 16			1	
Comments		ntain any raw materials of direc	ct animal-origin or materials that have	
	been produced using animal-origin components. Components have not been in commaterial of animal origin during processing and therefore pose no TSE risk.			

GentleVit Freeze Medium 4

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ultrapure water	(CAS No) 7732-18-5 (EC No) 231-791-2	70 - 79	Not classified
Dimethyl sulphoxide (DMSO)	(CAS No) 67-68-5	10	Not classified
Ethylene Glycol	(CAS No) 107-21-1 (EC No) 203-473-3 (EC Index No) 603-027-00-1	10	Acute Tox. 4 (Oral), H302
Human Serum Albumin	(CAS No) 70024-90-7	1.6	Not classified
Sodium Chloride	(CAS No) 7647-14-5 (EC No) 231-598-3	0.1 - 1	Not classified
HEPES	(CAS No) 7365-45-9 (EC No) 230-907-9	0.1 - 1	Not classified
Sodium lactate	(CAS No) 867-56-1 (EC No) 212-762-3	0.1 - 1	Not classified
D- (+)- Glucose	(CAS No) 50-99-7	< 0.1	Not classified



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Name	Product identifier	%	Classification according to		
			Regulation (EC) No. 1272/2008		
			[CLP]		
	(EC No) 200-075-1				
Sodium Hydrogen Carbonate	(CAS No) 144-55-8	< 0.1	Not classified		
	(EC No) 205-633-8				
Sodium Pyruvate	(CAS No) 113-24-6	< 0.1	Not classified		
	(EC No) 204-024-4				
Potassium Chloride	(CAS No) 7447-40-7	< 0.1	Not classified		
	(EC No) 231-211-8				
Calcium Chloride Dihydrate	(CAS No)10035-04-8	< 0.1	Eye Irrit. 2, H319		
Potassium Dihydrogen Phosphate	(CAS No) 7778-77-0	< 0.1	Not classified		
	(EC No) 231-913-4				
Magnesium Sulphate	(CAS No) 10034-99-8	< 0.1	Not classified		
Heptahydrate					
Full text of H-phrases: see section 16	5				
Comments	: The media do not con	tain any raw materials of di	rect animal-origin or materials that hav		
	been produced using a	nimal-origin components. Co	omponents have not been in contact with		
	material of animal orig	material of animal origin during processing and therefore pose no TSE risk.			

GentleVit Freeze Medium 5

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Ultrapure water	(CAS No) 7732-18-5	30 – 50	Not classified	
	(EC No) 231-791-2			
Sucrose	(CAS No) 57-50-1	20 - 30	Not classified	
	(EC No) 200-334-9			
Dimethyl sulphoxide (DMSO)	(CAS No) 67-68-5	20	Not classified	
Ethylene Glycol	(CAS No) 107-21-1	20	Acute Tox. 4 (Oral), H302	
	(EC No) 203-473-3			
	(EC Index No) 603-027-00-1			
Ficoll	(CAS No) 26873-85-8	0.1 - 1	Not classified	
Human Serum Albumin	(CAS No) 70024-90-7	1	Not classified	
Sodium Chloride	(CAS No) 7647-14-5	0.1 - 1	Not classified	
	(EC No) 231-598-3			
HEPES	(CAS No) 7365-45-9	0.1 - 1	Not classified	
	(EC No) 230-907-9			
Sodium lactate	(CAS No) 867-56-1	< 0.1	Not classified	
	(EC No) 212-762-3			
D- (+)- Glucose	(CAS No) 50-99-7	< 0.1	Not classified	
	(EC No) 200-075-1			
Sodium Hydrogen Carbonate	(CAS No) 144-55-8	< 0.1	Not classified	
	(EC No) 205-633-8			
Sodium Pyruvate	(CAS No) 113-24-6	< 0.1	Not classified	
	(EC No) 204-024-4			
Potassium Chloride	(CAS No) 7447-40-7	< 0.1	Not classified	
	(EC No) 231-211-8			
Calcium Chloride Dihydrate	(CAS No)10035-04-8	< 0.1	Eye Irrit. 2, H319	
Potassium Dihydrogen Phosphate	(CAS No) 7778-77-0	< 0.1	Not classified	
. 3	(EC No) 231-913-4			
Magnesium Sulphate	(CAS No) 10034-99-8	< 0.1	Not classified	
Heptahydrate				
Full text of H-phrases: see section 10	5			
Comments		ain any raw materials of dir	ect animal-origin or materials that have	
	been produced using animal-origin components. Components have not been in			

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).

material of animal origin during processing and therefore pose no TSE risk.

First-aid measures after inhalation

- First-aid measures after skin contact
- : Assure fresh air breathing. Allow the victim to rest.
- : 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. Obtain medical attention if pain, blinking or redness persist.



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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.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage.

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 container closed when not in use.

Keep only in the original container away from direct (sun)light.

Do not freeze.

Do not use after expiry date.

After opening the container, the product can be safely 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 (sun)light.

Storage temperature : 2 - 8°C

7.3 Specific end use(s)

See instruction 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.



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The selected protective gloves have to meet the specifications of EU-directive 89/686/EEC

and the standard EN374 derived from it.

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 (FU).

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 : Clear, colorless liquid

Odour
Odour threshold
DH
Comparison of the state of the s

No data available **Boiling point** Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) Non flammable Vapour pressure No data available Relative vapour density at 20°C No data available Relativ density No data available No data available Solubility 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

No additional information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Explosive limits

No additional information available.

10.2 Chemical stability

Stable after transport (max. 5 days) at elevated temperature (≤ 37°C). Stable for 12 month 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

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity : Not classified.

Extensive data from Mouse Embryo Assay have demonstrated that the medium is not toxic.

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

exposure)



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Aspiration hazard

Potential adverse human health effects and

symptoms

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.

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

SECTION 12: Ecological information

12.1 Toxicity

No additional information available

12.2 Persistence and degradability

GentleVit Freeze Medium 1

Persistence and degradability : Not established

12.3 Bioaccumulative potential

GentleVit Freeze Medium 1

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

12.6 Other adverse effects

Avoid release to environment

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste 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 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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



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15.1.1 EU-Regulations

No REACH Annex XVII restrictions. Contains no REACH candidate substance.

15.1.2 National regulations

No additional information available.

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

Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4

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

H302 Harmful if swallowed
H319 Cause 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.