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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 : VitriStore Thaw Kit

(VitriStore Thaw Medium 1 VitriStore Thaw Medium 2 VitriStore Thaw Medium 3 VitriStore Thaw Medium 4)

Product code : 4 VT\_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 : Cell culture medium for warming human embryos following vitrification.

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

3.1 Mixture

## 3.2 Mixture

VitriStore Thaw 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	70 - 90	Not classified
Sucrose	(CAS No) 57-50-1 (EC No) 200-334-9	10 - 20	Not classified
Human Serum Albumin	(CAS No) 70024-90-7	1 - 5	Not classified
Sodium Chloride	(CAS No) 7647-14-5 (EC No) 231-598-3	0,1 - 1	Not classified
Disodium Phosphate Dihydrate	(CAS No) 10028-24-7	< 0,1	Not classified
Potassium Chloride	(CAS No) 7447-40-7 (EC No) 231-211-8	< 0,1	Not classified
Potassium Dihydrogen Phosphate	(CAS No) 7778-77-0 (EC No) 231-913-4	< 0,1	Not classified

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



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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
processing and therefore pose no TSE risk.				

## VitriStore Thaw 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
Sucrose	(CAS No) 57-50-1 (EC No) 200-334-9	5 - 10	Not classified
Human Serum Albumin	(CAS No) 70024-90-7	1 - 5	Not classified
Sodium Chloride	(CAS No) 7647-14-5 (EC No) 231-598-3	0,1 - 1	Not classified
Disodium Phosphate Dihydrate	(CAS No) 10028-24-7	0,1 - 1	Not classified
Potassium Chloride	(CAS No) 7447-40-7 (EC No) 231-211-8	< 0,1	Not classified
Potassium Dihydrogen Phosphate	(CAS No) 7778-77-0 (EC No) 231-913-4	< 0,1	Not classified
Comments	anim	al-origin comp	ontain any raw materials of direct animal-origin or materials that have been produced using conents. Components have not been in contact with material of animal origin during efore pose no TSE risk.

# VitriStore Thaw Medium 3

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ultrapure	(CAS No) 7732-18-5	90 - 99	Not classified
water	(EC No) 231-791-2		
Sucrose	(CAS No) 57-50-1 (EC No) 200-334-9	1 - 5	Not classified
Human	(CAS No) 70024-90-7	1 - 5	Not classified
Serum			
Albumin			
Sodium	(CAS No) 7647-14-5	0,1 - 1	Not classified
Chloride	(EC No) 231-598-3		
Disodium	(CAS No) 10028-24-7	0,1 - 1	Not classified
Phosphate			
Dihydrate			
Potassium	(CAS No) 7447-40-7	< 0,1	Not classified
Chloride	(EC No) 231-211-8		
Potassium	(CAS No) 7778-77-0	< 0,1	Not classified
Dihydrogen	(EC No) 231-913-4		
Phosphate			
Comments	anim	al-origin comp	contain any raw materials of direct animal-origin or materials that have been produced using conents. Components have not been in contact with material of animal origin during refore pose no TSE risk.

# VitriStore Thaw Medium 4

Ultrapure water (CAS No) 7732-18 (EC No) 231-791- Human (CAS No) 70024-9 Serum Albumin (CAS No) 7647-14 (EC No) 231-598- Disodium (CAS No) 10028-2 Phosphate Dihydrate (CAS No) 7447-40	-2 90-7 1 - 5 4-5 -3	Not classified  Not classified  Not classified
Human Serum Albumin Sodium (CAS No) 7647-14 Chloride (EC No) 231-598- Disodium Phosphate Dihydrate Potassium (CAS No) 7447-40	90-7 1 - 5 4-5 0,1 - 1 -3	
Serum Albumin  Sodium (CAS No) 7647-14 Chloride (EC No) 231-598- Disodium Phosphate Dihydrate  Potassium (CAS No) 7447-40	4-5 0,1 - 1 -3	
Albumin  Sodium (CAS No) 7647-14 Chloride (EC No) 231-598- Disodium (CAS No) 10028-2 Phosphate Dihydrate  Potassium (CAS No) 7447-40	-3	Not classified
Chloride (EC No) 231-598- Disodium (CAS No) 10028-2 Phosphate Dihydrate Potassium (CAS No) 7447-40	-3	Not classified
Phosphate Dihydrate Potassium (CAS No) 10028-2  (CAS No) 7447-40		
Phosphate Dihydrate Potassium (CAS No) 7447-40		
Dihydrate Potassium (CAS No) 7447-40	24-7 0,1 - 1	Not classified
Potassium (CAS No) 7447-40		
, , ,		
	0-7 < 0,1	Not classified
<b>Chloride</b> (EC No) 231-211-	-8	
Potassium (CAS No) 7778-77	7-0 < 0,1	Not classified
Dihydrogen (EC No) 231-913-	-4	
Phosphate		



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Name	Product identif	fier %	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Comments	:	The media do not	contain any raw materials of direct animal-origin or materials that have been produced using
		animal-origin com	ponents. 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. Obtain medical attention if pain, blinking or redness

persist

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. 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.

Tormation 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.



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#### **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 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 (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 : Clear, colorless liquid

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Melting point No data available No data available Freezing point **Boiling point** No data available No data available Flash point Auto-ignition temperature No data available No data available Decomposition temperature Flammability (solid, gas) Non flammable Vapour pressure No data available Relative vapour density at 20°C No data available Relativ density No data available Solubility Highly soluble in water. Water: complete

Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2 Other information

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 ( $\leq$  37° C). Stable for 12 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.

10.5 Incompatible materials

Strong acids. Strong bases.



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#### 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 Not classified Specific target organ toxicity (repeated

exposure)

Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

Other information

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

VitriStore Thaw Medium 1

Persistence and degradability : Not established

12.3 Bioaccumulative potential

VitriStore Thaw 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



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Packing 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 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

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

#### 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.