

# SAFETY DATA SHEET

United States

Section 1. Identification Product name

# DMEM/High Modified, with 4500 mg/L Glucose, with 110 mg/L Sodium Pyruvate, without L-Glutamine

**Catalogue Number** 

SH30285

9 0 S H 3 0 2 8 5

Other means of identification Product type

 Product type
 Liquid.

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

For Further Manufacturing or Research Use. Not for Diagnostic or Therapeutic Use. Not available.

#### Supplier / Manufacturer

Cytiva Austria Kremplstr. 5 4061 Pasching AUSTRIA Tel. (+43) 7229 64865 Fax (+43) 7229 64866

Cytiva Singapore 1 Maritime Square #13-01 Harbourfront Centre Singapore 099253

Cytiva Amersham Place Little Chalfont Buckinghamshire HP7 9NA United Kingdom +44 0800 515 313 HyClone Laboratories 925 West 1800 South Logan, Utah 84321 Phone: (435) 792-8000

Cytiva USA 100 Results Way Marlborough, MA 01752 1-800-526-3593

In case of emergency

INFOTRAC - 24 Hour number: 1-800-535-5053 Outside of the United States, call 24 Hour number: 001-352-323-3500 (Call Collect)

## Section 2. Hazards identification

OSHA/HCS status	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	Not classified.
<u>GHS label elements</u> Signal word Hazard statements	No signal word. No known significant effects or critical hazards.

Article Number: SH30285



Page: 1/7 Validation date 7 July 2023 Version 1.01

Precautionary statements	
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Hazards not otherwise classified	None known.

## Section 3. Composition/information on ingredients

Substance/mixture	Mixture
Other means of identification	Not available.
CAS number/other identifiers CAS number	Not applicable.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

#### Section 4. First aid measures

Description of necessary first aid measures			
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.		
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.		
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.		
Ingestion	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.		

#### Most important symptoms/effects, acute and delayed

Potential acute health ef	fects			
Eye contact	No known significant effects or critical hazards.			
Inhalation	No known significant effects or critical hazards.			
Skin contact	No known significant effects or critical hazards.			
Ingestion	No known significant effects or critical hazards.			
Over-exposure signs/syr	nptoms			
Eye contact	No specific data.			
Inhalation	No specific data.			
Skin contact	No specific data.			
Ingestion	No specific data.			
Indication of immediate medical attention and special treatment needed, if necessary				
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.			
Specific treatments	No specific treatment.			

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### Extinguishing media

<u>Extinguioning mound</u>	
Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	No specific data.
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.



-	
Special protective equipment	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus
for fire-fighters	(SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for conta	inment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water- soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Precautions for safe handling	
Protective measures	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### **Control parameters Occupational exposure limits** None **Biological exposure indices** No exposure indices known. Appropriate engineering Good general ventilation should be sufficient to control worker exposure to airborne contaminants. controls **Environmental exposure** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters controls or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Individual protection measures Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Eye/face protection Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. Skin protection Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. **Body protection** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.



Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

<u>Appearance</u>							
Physical state	Liquid.						
Color	Clear. Reddish						
Odor	Not available.						
Odor threshold	Not available.						
рН	7 to 7.4						
Melting point/freezing point	Not available.						
Boiling point, initial boiling point, and boiling range	Not available.						
Flash point	Not available.						
Burning time	Not applicable.						
Burning rate	Not applicable.						
Evaporation rate	Not available.						
Flammability	Not available.						
Lower and upper explosive (flammable) limits	Not available.						
Vapor pressure	Not available.						
		Va	por Press	sure at 20°C	Va	por pres	sure at 50°C
	Ingredient name water	<b>Va</b> mm Hg 23.8	por Press kPa 3.2	sure at 20°C Method	Va mm Hg	por pres kPa	sure at 50°C Method
Relative vapor density	•	mm Hg	kPa			• •	
Relative vapor density Relative density	water	mm Hg	kPa			• •	
	water Not available.	mm Hg	kPa			• •	
Relative density	water Not available. Not available. Not available.	mm Hg	kPa			• •	
Relative density Solubility in water Partition coefficient: n-octano	water Not available. Not available. Not available.	mm Hg	kPa			• •	
Relative density Solubility in water Partition coefficient: n-octano water	water Not available. Not available. Not available. I/ Not applicable.	mm Hg	kPa			• •	
Relative density Solubility in water Partition coefficient: n-octano water Auto-ignition temperature	water Not available. Not available. Not available. I/ Not applicable. Not available.	mm Hg	kPa			• •	
Relative density Solubility in water Partition coefficient: n-octano water Auto-ignition temperature Decomposition temperature	water Not available. Not available. Not available. I/ Not applicable. Not available. Not available.	mm Hg	kPa			• •	
Relative density Solubility in water Partition coefficient: n-octano water Auto-ignition temperature Decomposition temperature SADT	water Not available. Not available. Not available. I/ Not applicable. Not available. Not available. Not available.	mm Hg	kPa			• •	
Relative density Solubility in water Partition coefficient: n-octano water Auto-ignition temperature Decomposition temperature SADT Viscosity	water Not available. Not available. Not available. I/ Not applicable. Not available. Not available. Not available. Not available. Not available.	mm Hg	kPa			• •	

# Section 10. Stability and reactivity

Reactivity Chemical stability	No specific test data related to reactivity available for this product or its ingredients. The product is stable.
Possibility of hazardous reactions Conditions to avoid	Under normal conditions of storage and use, hazardous reactions will not occur. No specific data.
Incompatible materials	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

Acute toxicity Not available.

Irritation/Corrosion

Not available.

Sensitization Not available.



### Mutagenicity

Not available.

#### Carcinogenicity Not available.

Reproductive toxicity

Not available.

## **Teratogenicity**

Not available.

## Specific target organ toxicity (single exposure)

Not available.

# Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

Information on the likely routes Routes of entry anticipated: Oral, Dermal, Eyes. of exposure

#### Potential acute health effects

Eye contact	No known significant effects or critical hazards.			
Inhalation	No known significant effects or critical hazards.			
Skin contact	No known significant effects or critical hazards.			
Ingestion	No known significant effects or critical hazards.			
Symptoms related to the physica	I, chemical and toxicological characteristics			
Eye contact	No specific data.			
Inhalation	No specific data.			
Skin contact	No specific data.			
Ingestion	No specific data.			
Delayed and immediate effects and also chronic effects from short and long term exposure				
Short term exposure				
Potential immediate effects	Not available.			
Potential delayed effects	Not available.			
Long term exposure				
Potential immediate effects	Not available.			
Potential delayed effects	Not available.			
Potential chronic health effects				
Not available.				
General	No known significant effects or critical hazards.			
Carcinogenicity	No known significant effects or critical hazards.			
Mutagenicity	No known significant effects or critical hazards.			
Reproductive toxicity	No known significant effects or critical hazards.			
Numerical measures of toxicity				
Acute toxicity estimates				

#### Acute toxicity estim

N/A

# Section 12. Ecological information

#### <u>Toxicity</u>

Not available.

#### Persistence and degradability

Not available. Bioaccumulative potential Not available.

# Mobility in soil

 Soil/water partition coefficient (K
 Not available.

 oc)
 Other adverse effects
 No known significant effects or critical hazards.



## Section 13. Disposal considerations

Disposal methods	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
------------------	--

# Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	
UN number	DOT Classification Not available.	Not available.	Not available.	
UN proper shipping name	Not available.	Not available.	Not available.	
Transport hazard class(es)	Not available.	Not available.	Not available.	
Transport hazaru class(es)	Not available.	Not available.	Not available.	
Packing group	-	- 	-	
Environmental hazards	No.	No.	No.	
Additional information	-	-	-	
	ADR/RID	IMDG		
UN number	Not available.	Not available.	Not available.	
UN proper shipping name	Not available.	Not available.	Not available.	
Transport hazard class(es)	Not available.	Not available.	Not available.	
Packing group	_	_		
Environmental hazards	- No.	No.	- No.	
Additional information	-	-	-	
	-	<u> </u>		
Special precautions for user	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.			
Transport in bulk according to IMO instruments	Not available.			
Proper shipping name		Not available.		
Section 15. Regulatory	nformation			
U.S. Federal regulations	TSCA 4(a) proposed test rules: glycine TSCA 8(a) CDR Exempt/Partial exemption: Not determined Clean Water Act (CWA) 311: Nitric acid, iron(3+) salt, nonahydrate			
		· · · · ·		
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)		Not listed		
Clean Air Act Section 602 Class	I Substances	Not listed		
Clean Air Act Section 602 Class II Substances		Not listed		
DEA List I Chemicals (Precursor Chemicals)		Not listed		
DEA List II Chemicals (Essential Chemicals)		Not listed		
<u>SARA 302/304</u>				
Composition/information on ir	ngredients			
No products were found.				
SARA 304 RQ	Not applicable.			
SARA 311/312				
Classification	Not applicable.			
Composition/information on in No products were found.	<u>igreaients</u>			



Glutamine	g/L Glucose, with 110 mg/L Sodium Pyruvate, without L-	SH3028
State regulations		
Massachusetts	None of the components are listed.	
New York	None of the components are listed.	
New Jersey	None of the components are listed.	
Pennsylvania	None of the components are listed.	
<u>California Prop. 65</u>		
This product does not requir	e a Safe Harbor warning under California Prop. 65.	
International regulations		
Chemical Weapon Convention	List Schedules I, II & III Chemicals	
Not listed.		
Montreal Protocol		
Not listed.		
Stackholm Convention on Porc	intent Organia Ballutanta	
Stockholm Convention on Pers Not listed.	istent Organic Polititants	
Rotterdam Convention on Prio	r Informed Consent (PIC)	
Not listed.		
UNECE Aarhus Protocol on PO	Ps and Heavy Metals	
Not listed.		
Inventory list		
United States	Not determined.	
Canada inventory	Not determined.	
National Fire Protection Associa	tion (U.S.A.)	
	Flammability	
	Health 2 1 Instability/Reactivity	
	Special hazards	
Procedure used to derive the cla	ssification	
Classi	fication Jus	stification
Not classified.		
History		
Date of printing	7/6/2023	
Date of issue/Date of revision	7/7/2023	
Date of previous issue	10/4/2018	
Version	1.01	
Kauta akkus istiana	sds_author@cytiva.com	
Key to abbreviations	ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor	
	GHS = Globally Harmonized System of Classification and Labelli	ng of Chemicals
	IATA = International Air Transport Association	-
	IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods	
	LogPow = logarithm of the octanol/water partition coefficient	
	MARPOL = International Convention for the Prevention of Polluti	on From Ships, 1973 as modified
	by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available	
	V/A = Not available UN = United Nations	
Deferences	Net available	

#### References

✓ Indicates information that has changed from previously issued version.

Not available.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Article Number : SH30285

Page: 7/7 Validation date 7 July 2023