

SAFETY DATA SHEET

United States

Section 1. Identification Product name

DPBS/Modified, with Calcium and Magnesium

Catalogue Number

SH30264

Other means of identification Not available. 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

Logan, Utah 84321 Phone: (435) 792-8000

HyClone Laboratories

925 West 1800 South

Cytiva USA 100 Results Way Marlborough, MÁ 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.
GHS label elements	
Signal word	No signal word.
Hazard statements	No known significant effects or critical hazards.
Precautionary statements	
Prevention	Not applicable.

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DPBS/Modified, with Calcium and Magnesium

	•
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	

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.

Not applicable.

Section 4. First aid measures

CAS number

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 any contact lenses. Get medical attention if irritation occurs. 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 effects Eye contact No known significant effects or critical hazards. Inhalation No known significant effects or critical hazards. Ingestion No specific data. Ingestion No specific data. Infalation No specific data. Inhalation	Description of necessary first a	aid measures
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Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.	Specific treatments	
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See toxicological information (Section 11)	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

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



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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

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: 15 to 30°C (59 to 86°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

Control parameters	
Occupational exposure limits None.	
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	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 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.

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Section 9. Physical and chemical properties

<u>Appearance</u> Physical state	Liquid.						
Color	Clear.						
Odor	Not available.						
Odor threshold	Not available.						
рН	7 to 7.2						
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	ure at 20°C	Va	por press	sure at 50°C
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	Ingredient name water	mm Hg 23.8	kPa 3.2	Method	mm Hg	kPa	Method
Relative vapor density	•	•		Method	mm Hg	kPa	Method
Relative vapor density Relative density	water	•		Method	mm Hg	kPa	Method
Relative density	water Not available.	•		Method	mm Hg	kPa	Method
	water Not available.	•		Method	mm Hg	kPa	Method
Relative density	water Not available. Not available.	•		Method	mm Hg	kPa	Method
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Relative density Solubility(ies) Solubility in water Partition coefficient: n-octano	water Not available. Not available. Not available. Not available.	•		Method	mm Hg	kPa	Method
Relative density Solubility(ies) Solubility in water Partition coefficient: n-octano water Auto-ignition temperature	water Not available. Not available. Not available. Not available. I/ Not applicable. Not available.	•		Method	mm Hg	kPa	Method
Relative density Solubility(ies) Solubility in water Partition coefficient: n-octano water Auto-ignition temperature Decomposition temperature	water Not available. Not available. Not available. Not available. Not applicable. Not available. Not available.	•		Method	mm Hg	kPa	Method
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Relative density Solubility(ies) Solubility in water Partition coefficient: n-octano water Auto-ignition temperature Decomposition temperature SADT Viscosity	water Not available. Not available. Not available. Not available. Not applicable. Not available. Not available. Not available. Not available. Not available. Not available.	•		Method	mm Hg	kPa	Method

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	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	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.

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Carcinogenicity

Not available.	
Reproductive toxicity Not available.	
<u>Teratogenicity</u> Not available.	
Specific target organ toxicity (s Not available.	ingle exposure)
<u>Specific target organ toxicity (r</u> Not available.	epeated exposure)
Aspiration hazard Not available.	
Information on the likely routes of exposure	Routes of entry anticipated: Oral, Dermal.
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	II, 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 a	nd 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	
N/A	
	r (*
Section 12. Ecological in	tormation

Toxicity

 Not available.

 Persistence and degradability

 Not available.

 Bioaccumulative potential

 Not available.

 Mobility in soil

 Soil/water partition coefficient (K 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

Section 14. Hansport in	IOMATION		
	DOT Classification	TDG Classification	Mexico Classification
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	-	-	-
		1	
	ADR/RID	IMDG	ΙΑΤΑ
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	-	-	-
Special precautions for user	secure. Ensure that persons tra spillage.	ises: always transport in closed cor nsporting the product know what to	
Transport in bulk according to IMO instruments	Not available.		
Proper	shipping name	Not available.	
Section 15. Regulatory	nformation		
U.S. Federal regulations	TSCA 8(a) CDR Exempt/Partia	Il exemption: Not determined	
	••••••	isodium hydrogenorthophosphate	
	ζ, ,	, , , , , , , , , , , , , , , , , , , ,	
Clean Air Act Section 112(b) Ha (HAPs)	zardous Air Pollutants	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 (Precurso	r Chemicals)	Not listed	
DEA List II Chemicals (Essentia	l Chemicals)	Not listed	
SARA 302/304			
Composition/information on ir	ngredients		
No products were found.			
•	Neterriteri		
SARA 304 RQ	Not applicable.		
SARA 311/312 Classification	Not applicable.		
Composition/information on in No products were found.	ngredients		
State regulations			

Massachusetts

None of the components are listed.

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Version 2

	Magnesium	SH3026
New York	None of the components are listed.	
New Jersey	None of the components are listed.	
Pennsylvania	None of the components are listed.	
California Prop. 65	na a Cafa Ulankan wamina wadan Califa	nie Deurs Af
i his product does not requir	re a Safe Harbor warning under Califor	nia Prop. 65.
nternational regulations		
Chemical Weapon Convention	List Schedules I, II & III Chemicals	
Not listed.		
Montreal Protocol		
Not listed.		
Stockholm Convention on Pers	sistent Organic Pollutants	
Not listed.		
Rotterdam Convention on Prio	r Informed Consent (PIC)	
Not listed.		
UNECE Aarhus Protocol on PC	Ps and Heavy Metals	
Not listed.		
nventory list		
United States	All components are active or exempt	ed.
Canada inventory	All components are listed or exempted	ed.
lational Fire Protection Associa	<u>tion (U.S.A.)</u>	
	Flammability	
		Reactivity
	Special haza	
Procedure used to derive the cla	assification	
Classi	ification	Justification
Classi		
Not classified.		
Not classified.		
Not classified. listory	12/22/2022	
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Not classified. <u>History</u> Date of printing Date of issue/Date of revision Date of previous issue Version	12/22/2022 3/9/2019 2 sds_author@cytiva.com ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor	
Not classified. <u>History</u> Date of printing Date of issue/Date of revision Date of previous issue Version	12/22/2022 3/9/2019 2 sds_author@cytiva.com ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System	of Classification and Labelling of Chemicals
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