

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Europe SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifier

Product name

## DPBS (10X) Liquid, without Calcium or Magnesium SH30378

**Catalogue Number** 

Not available. **Product description** Product type Liquid. Other means of identification Not available.

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

Not applicable.

## 1.3 Details of the supplier of the safety data sheet

Supplier

Cytiva Austria Kremplstr. 5 4061 Pasching AUSTRIA Phone: +43 7229 64865

HyClone Laboratories 925 West 1800 South Logan, Utah 84321 Phone; (435) 792-8000

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

Person who prepared the SDS: sds\_author@cytiva.com

Europe

Cytiva Austria Kremplstr. 5 4061 Pasching AUSTRIA Phone: +43 7229 64865

## National advisory body/Poison Centre

Europe

http://www.eapcct.org -> Go to: Links

Hours of operation Mo. - Fr. 08.30 - 17.00

1.4 Emergency telephone number

Call INFOTRAC 24 Hour number: 001-352-323-3500 (Calll Collect).

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

 

 Ingredients of unknown toxicity
 Is percent of the mixture consists of component(s) of unknown acute oral toxicity 10.4 percent of the mixture consists of component(s) of unknown acute dermal toxicity 10.4 percent of the mixture consists of component(s) of unknown acute inhalation toxicity

 Ingredients of unknown ecotoxicity
 Isometic acute acu

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements	
Hazard pictograms	
Signal word	No signal word.
Hazard statements	No known significant effects or critical hazards.
Precautionary statements	
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Hazardous ingredients	
Supplemental label elements	Not applicable.
Annex XVII - Restrictions on the	Not applicable.
manufacture, placing on the market and use of certain	
dangerous substances,	
mixtures and articles	
Special packaging requirements	
Containers to be fitted with child-resistant fastenings	Not applicable.
ciniu-resistant lastenings	
Tastila warning of danger	Natapplicable
Tactile warning of danger	Not applicable.
2.3 Other hazards	
Due durat manufa the suiteria for DDT	an upup assenting to Degulation (EQ) No. 4005

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

 $\overline{\mathbf{x}}$  his mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not None known. result in classification

## SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

#### <u>Type</u>

[1] Substance classified with a physical, health or environmental hazard

- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

## SECTION 4: First aid measures

## 4.1 Description of 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

## 4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms		
Eye contact	No specific data.	
Inhalation	No specific data.	
Skin contact	No specific data.	
Ingestion	No specific data.	

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.
See toxicological information (Section 11)	

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known.

## 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	Decomposition products may include the following materials: phosphorus oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special precautions 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

## 6.1 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 spilt material. Put on appropriate personal protective equipment.
For emergency responders	If specialised 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".
6.2 Environmental precautions	Avoid dispersal of spilt 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).

6.3 Methods and material for containment and cleaning up

PBS (10X) Liquid, without Calcium or Magnesium		$\checkmark$	SH30378
Small spill	Stop leak if without risk. Move containers soluble. Alternatively, or if water-insolubl appropriate waste disposal container. Di	e, absorb with an inert dry material and	l place in an
Large spill	Stop leak if without risk. Move containers basements or confined areas. Wash spil follows. Contain and collect spillage with vermiculite or diatomaceous earth and pla Dispose of via a licensed waste disposal	lages into an effluent treatment plant o non-combustible, absorbent material e ace in container for disposal according	r proceed as e.g. sand, earth,
6.4 Reference to other sections	See Section 1 for emergency contact info See Section 8 for information on appropri See Section 13 for additional waste treat	iate personal protective equipment.	

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 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.	
7.2 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.	
7.3 Specific end use(s)		
Recommendations	For Further Manufacturing or Research Use. Not for Diagnostic or Therapeutic Use.	
Industrial sector specific solutions	Not available.	

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

No DELs available.

#### PNECs

No PECs available.

#### 8.2 Exposure controls

Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe

PBS (10X) Liquid, without Calc	ium or Magnesium		SH30378
Hygiene measures	Wash hands, forearms and face thoroughly a smoking and using the lavatory and at the en should be used to remove potentially contam reusing. Ensure that eyewash stations and s	d of the working period. Appr inated clothing. Wash contan	opriate techniques ninated clothing before
Eye/face protection	Safety eyewear complying with an approved indicates this is necessary to avoid exposure possible, the following protection should be w of protection: safety glasses with side-shield	to liquid splashes, mists, gase vorn, unless the assessment in	es or dusts. If contact is
Skin protection			
Hand protection	Chemical-resistant, impervious gloves compl times when handling chemical products if a ri		
Body protection	Personal protective equipment for the body s and the risks involved and should be approve		
Other skin protection	Appropriate footwear and any additional skin task being performed and the risks involved a handling this product.		
Respiratory protection	Based on the hazard and potential for expose standard or certification. Respirators must be ensure proper fitting, training, and other impo	e used according to a respirat	
Environmental exposure controls	Emissions from ventilation or work process e with the requirements of environmental prote filters or engineering modifications to the pro- to acceptable levels.	ction legislation. In some cas	es, fume scrubbers,

## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

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<u>Appearance</u>	
Physical state	Liquid.
Colour	Clear.
Odour	Not available.
Odour threshold	Not available.
рН	6.7 to 6.9
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient: n-octanol/ water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.
9.2 Other information	
Burning time	Not applicable.
Burning rate	Not applicable.
Solubility in water	Not available.

SECTION 10: Stabili	ty and reactivity
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10.1 Reactivity 10.2 Chemical stability 10.3 Possibility of hazardous reactions	No specific test data related to reactivity available for this product or its ingredients. The product is stable. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	No specific data.
10.5 Incompatible materials	No specific data.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SH30378

## SECTION 11: Toxicological information

11.1 Information on toxicological effects Acute toxicity		
Conclusion/Summary	Not available.	
Acute toxicity estimates		
N/A		
Irritation/Corrosion		
Conclusion/Summary	Not available.	
<u>Sensitiser</u>		
Conclusion/Summary	Not available.	
<b>Mutagenicity</b>		
Conclusion/Summary	Not available.	
<b>Carcinogenicity</b>		
Conclusion/Summary	Not available.	
Reproductive toxicity		
Conclusion/Summary	Not available.	
<u>Teratogenicity</u>		
Conclusion/Summary	Not available.	
Specific target organ toxicity (s	<u>single exposure)</u>	
Not available.		
Specific target organ toxicity (r	<u>epeated exposure)</u>	
Not available.		
Aspiration hazard		
Not available		
Not available.		

Information on likely routes of exposure	Routes of entry anticipated: Oral, Dermal.	
Potential acute health effects		
Inhalation	No known significant effects or critical hazards.	
Ingestion	No known significant effects or critical hazards.	
Skin contact	No known significant effects or critical hazards.	
Eye contact	No known significant effects or critical hazards.	
Symptoms related to the physical, chemical and toxicological characteristics		
Inhalation	No specific data.	
Ingestion	No specific data.	
Skin contact	No specific data.	
Eye contact	No specific data.	
Delayed and immediate effects as well as chronic effects from short and long-term exposure		

#### Short term exposure

PBS (10X) Liquid, without Calciu		SH30378
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 effect	<u>s</u>	
Not available.		
Conclusion/Summary	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.	
Teratogenicity	No known significant effects or critical hazards.	
Developmental effects	No known significant effects or critical hazards.	
Fertility effects	No known significant effects or critical hazards.	
Other information	Not available.	

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Conclusion/Summary Not available.

## 12.2 Persistence and degradability

Conclusion/Summary Not available.

## 12.3 Bioaccumulative potential

Not available.

## 12.4 Mobility in soil

 
 Soil/water partition coefficient (Koc)
 Not available.

 Mobility
 Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

The generation of waste should be avoided or minimised 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.
Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
The generation of waste should be avoided or minimised wherever possible. 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	Not available.	Not available.	Not available.	Not available.
14.2 UN proper shipping name	Not available.	Not available.	Not available.	Not available.
14.3 Transport hazard class(es)	Not available.	Not available.	Not available.	Not available.
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

SH30378

**14.6 Special precautions**<br/>for user**Transport within user's premises:** always transport in closed containers that are upright and secure.<br/>Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

#### Annex XIV - List of substances subject to authorisation

Not available.

Annex XIV

None of the components are listed.

## Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the Not applicable. manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

## Other EU regulations

Industrial emissions Not listed (integrated pollution prevention and control) - Air

Industrial emissions Not listed (integrated pollution prevention and control) -Water

Ozone depleting substances (1005/2009/EU)

Not listed.

## Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

## Seveso Directive

This product is not controlled under the Seveso Directive.

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

PBS (10X) Liquid, without C	Calcium or Magnesium		SH30378
Montreal Protocol (Annexe	es A, B, C, E)		
Not listed.			
Stockholm Convention on	Persistent Organic Pollutants		
Not listed.			
Rotterdam Convention on	Prior Informed Consent (PIC)		
Not listed.			
UNECE Aarhus Protocol o	n POPs and Heavy Metals		
Not listed.			
Inventory list			
Europe	All components are listed or exempted.		
United States	All components are listed or exempted.		
Canada inventory	All components are listed or exempted.		
China	All components are listed or exempted.		
Japan	Japan inventory (ENCS): All componen Japan inventory (ISHL): Not determined		
15.2 Chemical safety	This product contains substances for wh	ch Chemical Safety Assessments are	e still required.

## assessment

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements	Not applicable.
Full text of classifications [CLP/ GHS]	Not applicable.
Date of printing	15 April 2020
Date of issue/ Date of revision	29 June 2019
Date of previous issue	23 October 2015
Version	1

#### Notice to reader

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