

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006

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## 1 Identification of the substance/mixture and of the company

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### 1.1 Product identifiers

Product: DPBS (Dulbeccos Phosphate Buffer) Ph. EUR and USP, pH 7,4, w/o (Ca, Mg), Powder

Catalog Number: GBP1626LK

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

Identified uses: Laboratory Reagent, for in vitro research use only.

Uses advised against: Not for diagnostic or therapeutic use. This is not a medical device.

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

**Supplier:** BIOZOL Diagnostica Vertrieb GmbH  
Leipziger Straße 4  
85386 Eching  
Phone +49 (89) 3799 666 6  
Fax +49 (89) 3799 666 99  
E-mail [info@biozol.de](mailto:info@biozol.de)

### 1.4 Emergency telephone number

Emergency telephone: +49 (89) 3799 666 6 (Available on weekdays 8:30 – 17:00 CEST)

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## 2 Hazards identification

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### 2.1 Classification of the substance or mixture

**CLP Regulation (EC) No 1272/2008**

The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

### 2.2 Label elements

**CLP Regulation (EC) No 1272/2008:**

None

### 2.3 Other hazards

Product fails to meet PBT/vPvB criteria

Endocrine-disrupting properties: The product fails to meet the criteria.

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## 3 Composition/information on ingredients

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### 3.1 Substance

Non-applicable

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## **3.2 Mixture**

**Chemical description:** Mixture composed of inorganic substances

### **Components**

None of the substances contained in the mixture are above the limits specified in Annex II of Regulation (EC) No 1907/2006

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## **4 First aid measures**

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### **4.1 Description of first aid measures**

Consult a doctor in case of discomfort showing the SDS for the product.

#### **By inhalation:**

In case of symptoms, move the person affected into fresh air.

#### **By skin contact:**

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

#### **By eye contact:**

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

#### **By ingestion/aspiration:**

In case of consumption in large quantities, it is recommended to seek medical assistance.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

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## **5 Firefighting measures**

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### **5.1 Extinguishing media**

#### **Suitable extinguishing media:**

Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

#### **Unsuitable extinguishing media:**

Non-applicable

### **5.2 Special hazards arising from the substance or mixture**

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Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

**5.3 Advice for firefighters**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

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**6 Accidental release measures**

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**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Isolate leaks provided that there is no additional risk for the people performing this task.

**For emergency responders**

Wear protective equipment. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions**

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

**6.3 Methods and materials for containment and cleaning up**

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

**6.4 Reference to other sections**

See sections 8 and 13

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**7 Handling and storage**

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**7.1 Precautions for safe handling**

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

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It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products. Consult section 10 for conditions and materials that should be avoided.

**C.- Technical recommendations on general occupational hygiene**

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

**D.- Technical recommendations to prevent environmental risks**

It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2

**7.2 Conditions for safe storage, including any incompatibilities****A.- Technical measures for storage**

Store in a cool, dry, well-ventilated location

**B.- General conditions for storage**

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s)**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

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**8 Exposure controls / personal protection**

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**8.1 Control parameters**

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Nuisance dust: Inhalable dust 10 mg/m<sup>3</sup> // Respirable dust 4 mg/m<sup>3</sup>

**DNEL (Workers)**

Non-applicable

**DNEL (General population)**

Non-applicable

**PNEC**

Non-applicable

**8.2 Exposure controls****A.- Individual protection measures, such as personal protective equipment**

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see

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subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

**B.- Respiratory protection**

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

**C.- Specific protection for the hands**

Non-applicable

**D.- Eye and face protection**

Non-applicable

**E.- Body protection**

Non-applicable

**F.- Additional emergency measures**

It is not necessary to take additional emergency measures.

**Environmental exposure controls**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**Volatile organic compounds**

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	0 % weight
V.O.C. density at 20 °C:	0 kg/m <sup>3</sup> (0 g/L)
Average carbon number:	Non-applicable
Average molecular weight:	Non-applicable

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**9 Physical and chemical properties**


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**9.1 Information on basic physical and chemical properties**
**Appearance**

Physical state at 20 °C	Solid
Appearance	Powdery
Colour	Not available
Odour	Not available
Odour threshold	Non-applicable *

**Volatility**

Boiling point at atmospheric pressure	Non-applicable *
Vapour pressure at 20 °C	Non-applicable *
Vapour pressure at 50 °C	Non-applicable *
Evaporation rate at 20 °C	Non-applicable *

**Product description**

Density at 20 °C	2062,2 kg/m <sup>3</sup>
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Relative density at 20 °C	2,062
Dynamic viscosity at 20 °C	Non-applicable *
Kinematic viscosity at 20 °C	Non-applicable *
Kinematic viscosity at 40 °C	Non-applicable *
Concentration	Non-applicable *
pH	7,2 - 7,8
Vapour density at 20 °C	Non-applicable *
Partition coefficient n-octanol/water 20 °C	Non-applicable *
Solubility in water at 20 °C	Non-applicable *
Solubility properties	Non-applicable *
Decomposition temperature	Non-applicable *
Melting point/freezing point	Non-applicable *
<b>Flammability</b>	
Flash Point	Non-applicable
Flammability (solid, gas)	Non-applicable *
Autoignition temperature	Non-applicable *
Lower flammability limit	Non-applicable *
Upper flammability limit	Non-applicable *
<b>Explosive (Solid)</b>	
Lower explosive limit	Non-applicable *
Upper explosive limit	Non-applicable *
<b>Particle characteristics</b>	
Median equivalent diameter	Non-applicable *

## 9.2 Other safety information

### Information with regard to physical hazard classes

Explosive properties	Non-applicable *
Oxidising properties	Non-applicable *
Corrosive to metals	Non-applicable *
Heat of combustion	Non-applicable *
Aerosols-total percentage (by mass) of flammable components	Non-applicable *

### Other safety characteristics

Surface tension at 20 °C	Non-applicable *
Refraction index	Non-applicable *

\*Not relevant due to the nature of the product, not providing information property of its hazards.

## 10 Stability and Reactivity

### 10.1 Reactivity

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7

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**10.2 Chemical stability**

Chemically stable under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected

**10.4 Conditions to avoid**

Applicable for handling and storage at room temperature

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

**10.5 Incompatible materials**

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

**10.6 Hazardous decomposition products**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: Mixture based on inorganic substances.

**11 Toxicological information**
**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

LD50 oral &gt; 2000 mg/kg (rat)

**Dangerous health implications**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure.

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met
- Corrosivity/Irritability: Based on available data, the classification criteria are not met

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met
- Corrosivity/Irritability: Based on available data, the classification criteria are not met

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met
- Contact with the eyes: Based on available data, the classification criteria are not met

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met  
IARC: Non-applicable
- Mutagenicity: Based on available data, the classification criteria are not met

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- Reproductive toxicity: Based on available data, the classification criteria are not met

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met

- Skin: Based on available data, the classification criteria are not met

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met

- Skin: Based on available data, the classification criteria are not met

H- Aspiration hazard:

Based on available data, the classification criteria are not met

**Other information**

Non-applicable

**Specific toxicology information on the substances**

Non-applicable

**11.2 Information on other hazards****Endocrine disrupting properties**

Endocrine-disrupting properties: The product fails to meet the criteria.

**Other information**

Non-applicable

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**12 Ecological information**

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**12.1 Toxicity**

Not available

**12.2 Persistence and degradability**

Not available

**12.3 Bioaccumulative potential**

Not available

**12.4 Mobility in soil**

Not available

**12.5 Results of PBT and vPvB assessment**

Product fails to meet PBT/vPvB criteria

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**12.6 Endocrine disrupting properties**

Endocrine-disrupting properties: The product fails to meet the criteria.

**12.7 Other adverse effects**

Not described

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## 13 Disposal considerations

### 13.1 Waste treatment methods

Code	Description	Waste class (Regulation (EU) No1357/2014)
16 03 04	inorganic wastes other than those mentioned in 16 03 03	Non dangerous

#### Type of waste (Regulation (EU) No 1357/2014)

Non-applicable

#### Waste management (disposal and evaluation)

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.Product

#### Regulations related to waste management

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

## 14 Transport information

### Transport of dangerous goods by land

With regard to ADR 2021 and RID 2021

14.1	UN number or ID number	Non-applicable
14.2	UN Proper shipping name	Non-applicable
14.3	Transport hazard class(es)	Non-applicable
	Labels	Non-applicable
14.4	Packaging group	Non-applicable
14.5	Environmental hazards	No
14.6	Special precautions for user	
	Special regulations:	Non-applicable
	Tunnel restriction code	Non-applicable
	Physico-Chemical properties	see section 9
	Limited quantities	Non-applicable
14.7	Maritime transport in bulk	Non-applicable

according to IMO

instruments:

### Transport of dangerous goods by sea

With regard to IMDG 40-20:

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<b>14.1 UN number or ID number</b>	Non-applicable
<b>14.2 UN Proper shipping name</b>	Non-applicable
<b>14.3 Transport hazard class(es)</b>	Non-applicable
Labels	Non-applicable
<b>14.4 Packaging group</b>	Non-applicable
<b>14.5 Marine pollutant</b>	No
<b>14.6 Special precautions for user</b>	

Special regulations: Non-applicable

EmS Codes

Physico-Chemical properties see section 9

Limited quantities Non-applicable

Segregation group Non-applicable

<b>14.7 Maritime transport in bulk</b>	Non-applicable
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according to IMO

instruments:

**Transport of dangerous goods by air**

With regard to IATA/ICAO 2023:

<b>14.1 UN number or ID number</b>	Non-applicable
<b>14.2 UN Proper shipping name</b>	Non-applicable
<b>14.3 Transport hazard class(es)</b>	Non-applicable
Labels	Non-applicable
<b>14.4 Packaging group</b>	Non-applicable
<b>14.5 Environmental hazards</b>	No
<b>14.6 Special precautions for user</b>	

Physico-Chemical properties see section 9

<b>14.7 Maritime transport in bulk</b>	Non-applicable
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according to IMO

instruments:

## 15 Regulatory Information

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

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REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products:

Non-applicable

**Seveso III:**

Non-applicable

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Non-applicable

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation**

The product could be affected by sectorial legislation

**15.2 Chemical safety assessment**

The supplier has not carried out evaluation of chemical safety.

**16 Other information**

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

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