

according to UK REACH Regulation

## PBS Buffer pH 7.2 - 10x concentrate

Revision date: 27.07.2023

Product code: 11232.xxxxx

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

PBS Buffer pH 7.2 - 10x concentrate

UFI:

8A30-31D5-600U-PRFQ

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

### Use of the substance/mixture

Use as laboratory reagent. Intended for scientific research and development.

### Uses advised against

Any non-intended use.

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

Company name:	MORPHISTO GmbH	
Street:	Schumannstr. 144	
Place:	D-63069 Offenbach	
Telephone:	+49 (0) 69 / 400 3019-60	Telefax: +49 (0) 69 / 400 3019-64
E-mail:	info@morphisto.de	
Contact person:	Morphisto GmbH	
E-mail:	gefahrstoffmanagement@morphisto.	de
Internet:	http://www.morphisto.de	
1.4. Emergency telephone	Morphisto GmbH, Tel: +49(0)69 400	3019-60, Mo-Fr.: 09-16Uhr

number:

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### **GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

## 2.2. Label elements

### Additional advice on labelling

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: none

#### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1% or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more have endocrine disrupting properties. No risks worthy of mention. Please observe the information on the safety data sheet at all times.

## **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

Chemical characterization

in aqueous solution

## Hazardous components

none (according to UK REACH Regulation)



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### **Further Information**

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

### After inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of of water. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

## Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam. Atomized water.

### Unsuitable extinguishing media

High power water jet.

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

Non-flammable. In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO2).

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

### **SECTION 6: Accidental release measures**

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

### General advice

Safe handling: see section 7 Personal protection equipment: see section 8 Clear danger zone. Follow emergency plan. Consult an expert. Ventilate affected area.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.



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### 6.3. Methods and material for containment and cleaning up

### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

### Advice on safe handling

Wear suitable protective clothing. (See section 8.)

### Advice on protection against fire and explosion

Usual measures for fire prevention.

## Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Take off contaminated clothing and wash it before reuse. Street clothing should be stored separately from work clothing. Draw up and observe skin protection programme. Always close containers tightly after the removal of product.

#### Further information on handling

General protection and hygiene measures: See section 8.

## 7.2. Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Keep container tightly closed. Keep container tightly closed in a cool, well-ventilated place.

### Hints on joint storage

Do not store together with: food and feed. pharmaceuticals. Infectious substances. Radioactive substances. Explosive substances. Oxidizing substances. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. Pyrophoric solids. Substances which in contact with water form flammable gases. Ammonium nitrate and preparations containing ammonium nitrate.

### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Recommended storage temperature: 15-25 °C Protect against: frost. UV-radiation/sunlight. heat. Humidity

#### 7.3. Specific end use(s)

See section 1.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	WEL



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### **DNEL/DMEL** values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
1310-73-2	Sodium hydroxide			
Worker DNEL, long-term     inhalation     local     1 mg/m³				
Consumer DNE	EL, long-term	inhalation	local	1 mg/m³

### 8.2. Exposure controls

## Appropriate engineering controls

Provide adequate ventilation. Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide washing facilities at the workplace, provide an eye shower or eyewash bottle and mark them.

### Individual protection measures, such as personal protective equipment

### Eye/face protection

Wear eye/face protection. Wear safety glasses; chemical goggles (if splashing is possible). EN 166

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

In case of prolonged or frequently repeated skin contact:

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time >= 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time >= 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Before using check leak tightness / impermeability.

### Skin protection

Use of protective clothing. Suitable protective clothing: Lab apron. Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required.

### Environmental exposure controls

Do not allow to enter into surface water or drains.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless, clear



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Odour:	odourless	
Melting point/freezing point:	not determined	
Boiling point or initial boiling point and	not determined	
boiling range:		
Flammability:	not determined	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	not determined	
Auto-ignition temperature:	not determined	
Decomposition temperature:	not determined	
pH-Value (at 20 °C):	7,1-7,3	
Viscosity / kinematic:	not determined	
Water solubility:	completely miscible	
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	not determined	
Density (at 20 °C):	1,05 g/cm³	
Relative vapour density:	not determined	
Particle characteristics:	not applicable	
9.2. Other information		
Information with regard to physical has	zard classes	
Explosive properties		
The product is not: Explosive. none		
Sustaining combustion:	Not sustaining combustion	
Self-ignition temperature		
Gas:	not determined	
Oxidizing properties		
none		
Other safety characteristics		
Evaporation rate:	not determined	
Solvent separation test:	not determined	
Solvent content:	not determined	
Solid content:	not determined	
Sublimation point: Softening point:	not determined not determined	
Pour point:	not determined	
Viscosity / dynamic:	not determined	
Flow time:	not determined	

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No information available.

## 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

## 10.3. Possibility of hazardous reactions

Refer to chapter 10.5.

## 10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.



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## 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.Substances which in contact with water, emit flammable gases.

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO2).

### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in GB CLP Regulation

### Acute toxicity

Based on available data, the classification criteria are not met.

### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

#### Irritation and corrosivity

Based on available data, the classification criteria are not met.

### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

## Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

## Other information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Based on available data, the classification criteria are not met.

### 12.2. Persistence and degradability

The product has not been tested.

## 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.



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### **Further information**

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

### **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

### List of Wastes Code - residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

### List of Wastes Code - used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

### **SECTION 14: Transport information**

### Land transport (ADR/RID)

 14.1. UN number or ID number:

 14.2. UN proper shipping name:

 14.3. Transport hazard class(es):

 14.4. Packing group:

 Inland waterways transport (ADN)

 14.1. UN number or ID number:

 14.2. UN proper shipping name:

 14.3. Transport hazard class(es):

 14.4. Packing group:

 Marine transport (IMDG)

 14.1. UN number or ID number:

 14.2. UN proper shipping name:

 14.3. Transport hazard class(es):

 14.4. Packing group:

 Marine transport (IMDG)

 14.3. Transport hazard class(es):

 14.4. Packing group:

 Air transport hazard class(es):

 14.3. Transport hazard class(es):

 14.4. Packing group:

 Air transport (ICAO-TI/IATA-DGR)

 14.1. UN number or ID number:

 14.2. UN proper shipping name:

 14.3. Transport hazard class(es):

 14.4. Packing group:

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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## 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

### 14.6. Special precautions for user

### Refer to section 6-8 14.7. Maritime transport in bulk according to IMO instruments

not relevant

Entry 75

## **SECTION 15: Regulatory information**

15.1. Safety, I	health and environmental	l regulations/legislatio	n specific for the substand	ce or mixture

No

### EU regulatory information

Restrictions on use (REACH, annex XVII):

2010/75/EU (VOC):	No information available.
2004/42/EC (VOC):	No information available.
Information according to 2012/18/EU	Not subject to 2012/18/EU (SEVESO III)
(SEVESO III):	

### Additional information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

### National regulatory information

Water hazard class (D):

1 - slightly hazardous to water

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 5,7,9,11,12,14,15,16. Rev. 2,0, 14.06.2023, Individual safety data sheet based on10384\_collect Rev. 2,1; 27.07.2023; general adjustment(s)

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen AGW: Arbeitsplatzgrenzwert AVV: Abfallverzeichnisverordnung CAS Chemical Abstracts Service CLP: Classification, Labelling and Packaging of substances and mixtures DNEL: Derived No Effect Level d: day(s) EAKV: Europäisches Abfallverzeichnis gemäß Entwurf Abfallverzeichnisverordnung EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European LIst of Notified Chemical Substances ECHA: European Chemicals Agency EWC: European Waste Catalogue IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals



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GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)	
h: hour	
LOAEL: Lowest observed adverse effect level	
LOAEC: Lowest observed adverse effect concentration	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
NOAEL: No observed adverse effect level	
NOAEC: No observed adverse effect level	
NLP: No-Longer Polymers	
N/A: not applicable	
OECD: Organisation for Economic Co-operation and Development	
PNEC: predicted no effect concentration	
PBT: Persistent bioaccumulative toxic	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de for (Regulations Concerning the International Transport of Deparerous Conde by Rail.)	
fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) REACH: Registration, Evaluation, Authorisation of Chemicals	
SVHC: substance of very high concern	
TRGS Technische Regeln fuer Gefahrstoffe	
UN: United Nations	
VOC: Volatile Organic Compounds	
VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe	
WGK: Wassergefaehrdungsklasse	
CLP: Classification, labelling and Packaging	
REACH: Registration, Evaluation and Authorization of Chemicals	
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals	
UN: United Nations	
CAS: Chemical Abstracts Service	
DNEL: Derived No Effect Level	
DMEL: Derived Minimal Effect Level	
PNEC: Predicted No Effect Concentration	
ATE: Acute toxicity estimate	
LL50: Lethal loading, 50%	
EL50: Effect loading, 50%	
EC50: Effective Concentration 50%	
ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration	
BCF: Bio-concentration factor	
PBT: persistent, bioaccumulative, toxic	
vPvB: very persistent, very bioaccumulative	
ADR: Accord européen sur le transport des marchandises dangereuses par Route	
(European Agreement concerning the International Carriage of Dangerous Goods by Road)	
RID: Regulations concerning the international carriage of dangerous goods by rail	
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterway	/S
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation	
intérieures)	
EmS: Emergency Schedules	
MFAG: Medical First Aid Guide	
MARPOL: International Convention for the Prevention of Marine Pollution from Ships	
IBC: Intermediate Bulk Container	
For abbreviations and acronyms, see table at http://abbrev.esdscom.eu	
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety	
assessment, chapter R.20 (Table of terms and abbreviations).	

## **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of



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product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)