

**SAFETY DATA SHEET**

Create Date: 2021-04-18

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**SECTION 1: COMPANY AND PRODUCT INFORMATION**

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**1.1 Product identifiers**

Product name : PBS Tablets  
Cat. Number : ZXB-06-118  
CAS number : 7647-14-5, 7558-79-4, 7778-77-0, 7447-40-7  
Synonyms : Phosphate Buffered Saline Tablets

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

Identified uses : For research and laboratory use only.

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

Address : Hinter den Garten 56  
89173 Lonsee  
Deutschland

Email : [info@zellx.de](mailto:info@zellx.de)  
Phone : +49(0)731 55211521  
Fax : +49(0)731 55211719

**1.4 Emergency telephone number**

Emergency phone : +49(0)731 55211521

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**SECTION 2: HAZARDS IDENTIFICATION**

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**2.1 Classification of substance or mixture**

Substance/mixture is not classified as hazardous.

**2.2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Not classified as hazardous under the GHS.

**2.3 NFPA Rating**

Health hazard : 0  
Fire hazard : 0  
Reactivity hazard : 0

**2.6 HMIS Rating**

Health hazard : 0  
Chronic health hazard : -  
Reactivity hazard : 0  
Flammability : 0  
Physical hazard : 0

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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**3.1 Substances**

Substance	CAS#	EC#	Concentration
Sodium chloride M.F: NaCl M.W: 58.44 g/mol	7647-14-5	-	80%
Disodium hydrogenorthophosphate M.F: HNa <sub>2</sub> O <sub>4</sub> P M.W: 141.96 g/mol	7558-79-4	-	12.5 - 14%
Potassium dihydrogenorthophosphate M.F: H <sub>2</sub> KO <sub>4</sub> P M.W: 136.09 g/mol	7778-77-0	-	2.5% - 4%
Potassium chloride M.F: KCl M.W: 74.55 g/mol	7447-40-7	-	2%

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**SECTION 4: FIRST AID MEASURES**

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**4.1 Description of first aid measures****General advice**

Consult a physician if symptoms are severe or persistent. Provide this data sheet to medical personnel. If product is spilled or leaked, evacuate area.

**In case of inhalation**

If inhaled, move person to fresh air and monitor breathing. If not breathing, give artificial ventilation. Consult a physician if symptoms are severe or persistent.

**In case of skin contact**

Immediately wash with excess soap and water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Flush eyes with water or eye wash solution as a precaution for 15 minutes. Consult a physician.

**In case of ingestion**

Only induce vomiting if recommended by medical personnel. If subject is unconscious, do not give anything by mouth. If conscious, rinse mouth with water and drink plenty of water. Consult a physician.

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

All known important symptoms are described in Section 2 and/or Section 11. No other important symptoms to report.

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

No special treatment indicated. Provide treatment in accordance with exhibited systems

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## SECTION 5: FIRE FIGHTING MEASURES

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### 5.1 Conditions of flammability

This product considered not flammable or combustible.

### 5.2 Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical, and carbon dioxide extinguishers are suitable.

### 5.3 Special hazards arising from the substance

During a fire, highly toxic gases may be generated by thermal decomposition or combustion  
– Oxides of Phosphorus, Hydrogen Chloride Gas, Potassium Oxides, Sodium Oxides.

### 5.4 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Provide suitable ventilation. Use any necessary personal protective equipment. Avoid breathing vapors, mist or gas.

**For personal protection see section 8**

### 6.2 Environmental precautions

Do not let product enter drains.

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

Soak up with absorbent material, and discard.

**For proper disposal see section 13**

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## SECTION 7: HANDLING AND STORAGE

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### 7.1 Precautions for safe handling

Wear any necessary personal protective equipment.

**For precautions see section 2**

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

Storage conditions : Keep container tightly closed.  
Storage Temperature: room temperature

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 Control parameters

This product is not known to contain any substances with occupational exposure limit values.

### 8.2 Engineering controls

This product is not known to contain any substances with occupational exposure limit values.

### 8.3 Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

- Skin protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique - without touching outer surface of glove - to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Body protection : Wear appropriate clothing. Ensure clothing is in good condition, with no holes or tears. When selecting clothing, consider the concentration and amount of substance to be handled.
- Respiratory protection : Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

- a) Appearance : White
- b) Physical states : liquid
- c) Odor : Not available
- d) Odor threshold : Not available
- e) Melting point : Not available
- f) Freezing point : Not available
- g) Boiling point range : Not available
- h) pH : 7.2 – 7.6 at 25°C
- i) Density : Not available
- j) Flash point : Not available
- k) Evaporation rate : Not available
- l) Upper/lower flammability or explosive limits: : Not available
- m) Vapor pressure : Not available
- n) Vapor density : Not available
- o) Relative density : Not available
- p) Solubility : Not available
- q) Partition coefficient:n-octanol/water : Not available
- r) Autoignition temperature : Not available
- s) Decomposition temperature : Not available
- t) Viscosity : Not available

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## SECTION 10: STABILITY AND REACTIVITY

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### 10.1 Reactivity

No special reactivity is known.

### 10.2 Chemical stability

Product is stable when stored and used as recommended.

### 10.3 Possibility of hazardous reactions

No possibility of hazardous reactions is available.

### 10.4 Incompatible materials

Strong acids and strong oxidizing agents are incompatible with this product and must be avoided.

### 10.5 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Oxides of Phosphorus, Hydrogen Chloride Gas, Potassium Oxides, Sodium Oxides.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### 11.1 Acute toxicity

Disodium hydrogenorthophosphate

Oral : RAT LD50: 17 g/kg

### 11.2 Skin corrosion/irritation

No skin/corrosion irritation data available.

### 11.3 Respiratory or skin sensitization

No Respiratory or skin sensitization data available.

### 11.4 Germ cell mutagenicity

No germ cell mutagenicity data available.

### 11.5 Carcinogenicity

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

#### **11.6 Reproductive toxicity**

No reproductive toxicity data available.

#### **11.7 Specific target organ toxicity – single exposure**

No specific organ toxicity data available.

#### **11.8 Specific target organ toxicity – repeated exposure**

No specific organ toxicity data available.

#### **11.9 Aspiration hazard**

No aspiration hazard data available.

#### **11.10 Likely routes of exposure**

Respiratory organs, mouth, skin, and eyes.

#### **11.11 Symptoms of exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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### **SECTION 12: ECOLOGICAL INFORMATION**

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#### **12.1 Toxicity**

No ecological toxicity data available.

#### **12.2 Persistence and degradability**

No persistence/degradability data available.

#### **12.3 Bioaccumulative potential**

No bioaccumulation data available.

#### **12.4 Mobility in soil**

No soil mobility data available.

#### **12.5 Other adverse effect**

No other adverse effect data available.

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### **SECTION 13: DISPOSAL CONSIDERATIONS**

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Disposal must be made according to official and local regulations.

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### **SECTION 14: TRANSPORTATION INFORMATION**

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#### **14.1 DOT (US)**

Not a dangerous good under DOT(US) regulations.

#### **14.2 IMDG**

Not a dangerous good under IMDG regulations.

#### **14.3 IATA**

Not a dangerous good under IATA regulations.

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## SECTION 15: REGULATORY INFORMATION

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### 15.1 SARA

SARA 302: This product and components are not subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This product does not contain any components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312: Chronic Health Hazard

### 15.2 Right to know components

Massachusetts : Disodium hydrogenorthophosphate, CAS No.: 7558-79-4 (12.5 - 14%).

Pennsylvania : Disodium hydrogenorthophosphate, CAS No.: 7558-79-4 (12.5 - 14%).

New Jersey : Disodium hydrogenorthophosphate, CAS No.: 7558-79-4 (12.5 - 14%).

California : This product contains no chemicals which are known to the State of  
proposition 65 California to cause cancer, or birth defects or other reproductive harm.  
components

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## SECTION 16: OTHER INFORMATION

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### 16.1 Disclaimer

This product offered by zellx-biochem.com for research, laboratory or further manufacturing use. Not for human use or consumption. The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant-ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall zellx-biochem.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if zellx-biochem.com has been advised of the possibility of such damages.

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### 16.2 Preparation Information

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