

## SAFETY DATA SHEET

Version 1.0 Revision Date N/A Print Date 04/24/2020

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

#### **1.1 Product identifiers**

Product name : Phosphate Buffered Saline(PBS) solution

Product Number : 101018

Brand : World Precision Instruments, Inc.

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

Identified uses : Laboratory chemical, buffer solution for various applications

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

Company : World Precision Instruments, Inc.  
175 Sarasota Center Blvd  
Sarasota, FL 34240

Telephone : +1 941-371-1003

Fax : +1 941-377-5428

#### **1.4 Emergency telephone number**

Emergency Phone # : +1-941-371-1003

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

#### **2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture.

#### **2.2 GHS Label elements, including precautionary statements**

Not a hazardous substance or mixture.

#### **2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none**

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

### **3.2 Mixtures**

No components need to be disclosed according to the applicable regulations.

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

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

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

#### **In case of eye contact**

Remove contact lenses if present and easy-to-do; rinse thoroughly with plenty of water for at least 15 min; consult a physician.

#### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth immediately with plenty of water; get medical attention.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

### **Suitable extinguishing media**

Use water spray, fog or alcohol-resistant foam, dry chemical powder.

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

Nature of decomposition products not known.

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus and full turnout gear for firefighting if necessary.

### **5.4 Further information**

No data available

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

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

Use personal protective equipment; ensure adequate ventilation.

For personal protection see section 8.

### **6.2 Environmental precautions**

Do not let product enter drains.

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

Sweep up and shovel; keep in suitable, closed containers for disposal.

### **6.4 Reference to other sections**

For disposal see section 13.

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

### **7.1 Precautions for safe handling**

Wear suitable protective clothing; avoid contact with skin, eyes and clothing. For precautions see section 2.2.

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

Store at 2-8°C in a tightly closed container; use original container.

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

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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

### **8.1 Control parameters**

#### **Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and off hours and at the end of the workday.

#### **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 glove's outer surface) 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 after use.

##### **Body Protection**

Lab coat/Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### **Respiratory protection**

For most conditions, no respiratory protection is needed. For nuisance exposures use type P95(US) or type P1(EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### **Control of environmental exposure**

Do not let product enter drains.

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

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

- a) Appearance              Form: colourless liquid
- b) Odour                      No data available
- c) Odour Threshold              No data available
- d) pH                              7.4 at 25°C (77 °F)
- e) Melting point/freezing point      No data available
- f) Initial boiling point and boiling range      No data available
- g) Flash point                      ()No data available
- h) Evaporation rate              No data available
- i) Flammability (solid, gas)      No data available
- j) Upper/lower flammability or explosive limits      No data available
- k) Vapour pressure              No data available
- l) Vapour density                      No data available
- m) Relative density              No data available
- n) Water solubility              Soluble
- o) Partition coefficient: n-octanol/water      No data available
- p) Auto-ignition temperature      No data available
- q) Decomposition temperature      No data available
- r) Viscosity                              No data available
- s) Explosive properties              No data available
- t) Oxidizing properties              No data available

### **9.2 Other safety information**

No data available

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

**10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

No data available

**10.5 Incompatible materials**

Strong oxidizing agents, Strong acids

**10.6 Hazardous decomposition products**

No data available.

In the event of fire: see section 5

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Inhalation: No data available

Dermal: No data available

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

## **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 a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

## **Reproductive toxicity**

No data available

### **Specific target organ toxicity - single exposure**

No data available

### **Specific target organ toxicity - repeated exposure**

No data available

## **Aspiration hazard**

No data available

## **Additional Information**

RTECS: Not available

Vomiting, Diarrhea, Dehydration and congestion may occur in internal organs. Hypertonic salt solutions can produce inflammatory reactions in the gastrointestinal tract. 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**

### **12.1 Toxicity**

No data available

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

No data available

## **12.4 Mobility in soil**

No data available

## **12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## **12.6 Other adverse effects**

No data available

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## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

#### **Product**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### **Contaminated packaging**

Dispose of as unused product.

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## **SECTION 14: Transport information**

### **DOT (US)**

Not dangerous goods

### **IMDG**

Not dangerous goods

### **IATA**

Not dangerous goods

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## **SECTION 15: Regulatory information**

### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **SARA 313 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

### **SARA 311/312 Hazards**

No SARA Hazards

### **Massachusetts Right To Know Components**

Disodium hydrogenorthophosphate	CAS-No. 7558-79-4	Revision Date 1993-04-24
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### **Pennsylvania Right To Know Components**

Sodium chloride	CAS-No. 7647-14-5	Revision Date 1993-04-24
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Disodium hydrogenorthophosphate	CAS-No. 7558-79-4	Revision Date 1993-04-24
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### **New Jersey Right To Know Components**

Sodium chloride	CAS-No. 7647-14-5	Revision Date 1993-04-24
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Disodium hydrogenorthophosphate	CAS-No. 7558-79-4	Revision Date 1993-04-24
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Potassium chloride	CAS-No. 7447-40-7	Revision Date 1993-04-24
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Potassium dihydrogenorthophosphate	CAS-No. 7778-77-0	Revision Date 1993-04-24
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### **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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## **SECTION 16: Other information**

### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. World Precision Instruments, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.wpiinc.com](http://www.wpiinc.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.