# SAFETY DATA SHEET

Revision Date *16-Apr-2012*

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Name** PBS 10x

**Recommended Use** For research use only
**Registration Number** No information available

**1.1 Product Identifier**

**Catalog Number:** PBS10X03

**Supplier:** MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
tel: 440-337-1200

**Emergency Telephone Number:** CHEMTREC: 1-800-424-9300 (1-703-527-3887)

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

## 2. HAZARDS IDENTIFICATION

**GHS - Classification**

**GHS Label elements, including precautionary statements**

**Physical Hazards** None

**Not Hazardous** Not classified

**NFPA rating:**

| | |
|---|---|
| **NFPA Health:** | 1 |
| **NFPA Flammability:** | 0 |
| **NFPA Reactivity:** | 0 |
| **NFPA Special Note:** | - |

**Precautionary Statements**

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**

**Synonyms:** Not Available

| Chemical Name | EC No. | CAS Number | Weight % | Classification (67/548) | Classification (Reg. 1272/2008) | REACH Registration Number |
|---|---|---|---|---|---|---|
| Water, Ultra-pure | EEC No. 231-791-2 | 7732-18-5 | 90.2 | - | | No data available |
| Sodium Chloride | EEC No. 231-598-3 | 7647-14-5 | 8 | - | | No data available |
| Sodium Phosphate Dibasic Anhydrous | EEC No. 231-448-7 | 7558-79-4 | 1.4 | - | | No data available |
| Potassium Chloride | EEC No. 231-211-8 | 7447-40-7 | 0.2 | - | | No data available |
| Potassium Phosphate Monobasic Anhydrous | EEC No. 231-913-4 | 7778-77-0 | 0.2 | - | | No data available |

For the full text of the R phrases and H statements mentioned in this section, see Section 2

## 4. FIRST AID MEASURES

### 4.1 Description of first-aid measures

**General Advice** If symptoms persist, call a physician.

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin Contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

**Inhalation** Move to fresh air.

**Rinse mouth** Clean mouth with water and afterwards drink plenty of water.

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

**Main Symptoms** No information available

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

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Extinguishing media which must not be used for safety reasons**
No information available

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

No information available.

### 5.3 Advice for firefighters

No information available.

## 6. ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation.

See Section 12 for additional information.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

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

No information available.

### 6.4 Reference to other sections

See Section 12 for additional information

## 7. HANDLING AND STORAGE

**Storage**
ROOM TEMPERATURE

### 7.1 Precautions for safe handling

Ensure adequate ventilation.

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

Keep containers tightly closed in a cool, well-ventilated place

### 7.3 Specific end uses

**Exposure Scenario**
No information available

**Other Guidelines**
No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

| | |
|---|---|
| **Exposure Limits** | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
| **Derived No Effect Level (DNEL)** | No information available |
| **Predicted No Effect Concentration (PNEC)** | No information available |

### 8.2 Exposure controls

| | |
|---|---|
| **Engineering Measures** | Ensure adequate ventilation, especially in confined areas. |
| **Personal Protective Equipment** | |
| **Eye Protection** | Tightly fitting safety goggles |
| **Skin and Body Protection** | Long sleeved clothing |

| | |
|---|---|
| **Hand Protection** | Protective gloves |
| **Respiratory Protection** | No special protective equipment required. |
| **Environmental Exposure Controls** | No information available. |
| **Hygiene Measures** | Handle in accordance with good industrial hygiene and safety practice. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**Appearance**

| | |
|---|---|
| **Physical State** | Liquid. |

**Physical Property Data**

| | |
|---|---|
| **pH Value** | No data available |
| **Flash Point** | No information available |
| **Autoignition Temperature** | No data available |
| **Melting/Freezing Point** | |
| **Boiling Point (°C)** | No information available. |
| **Vapor Pressure** | No data available |
| **Vapor Density** | No information available |
| **Water Solubility** | No data available |
| **Evaporation Rate** | No data available. |
| **Flammability (solid, gas)** | No data available |
| **Flammability Limits in Air** | |
| **upper flammability limit** | No data available |
| **lower flammability limit** | No data available |
| **Density** | No data available |
| **Specific Gravity** | No data available. |
| **Decomposition Temperature** | No data available |
| **Viscosity, Kinematic** | No data available. |
| **Viscosity, Dynamic** | No data available. |
| **Explosive Properties** | No information available. |
| **Oxidizing Properties** | No information available |
| **VOC Content (%)** | No information available |

### 9.2 Other Safety Information

Other Safety Information

## 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

None under normal processing.

### 10.4 Conditions to avoid

None in particular

### 10.5 Incompatible Materials

None in particular

**10.6 Hazardous Decomposition Products**

None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects**

**Acute Toxicity** Product does not present an acute toxicity hazard based on known or supplied information

**Inhalation** No information available.

**Eye Irritation** No information available.

**Acute toxicity** 0% of the mixture consists of ingredient(s) of unknown toxicity

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| Water, Ultra-pure<br>7732-18-5 | 90 mL/kg ( Rat ) | | |
| Sodium Chloride<br>7647-14-5 | 3 g/kg ( Rat ) | 10 g/kg (Rabbit) | 42 g/m$^3$ ( Rat ) 1 h |
| Sodium Phosphate Dibasic Anhydrous<br>7558-79-4 | 17 g/kg ( Rat ) | | |
| Potassium Chloride<br>7447-40-7 | 2600 mg/kg ( Rat ) | | |
| Potassium Phosphate Monobasic Anhydrous<br>7778-77-0 | | 4640 mg/kg (Rabbit) | |

**Mutagenic Effects** Contains no ingredient listed as a mutagen.

**Carcinogenic Effects** None known.

**Reproductive Toxicity** None known

**Developmental Toxicity** None known.

**Aspiration hazard** None known

## 12. ECOLOGICAL INFORMATION

**12.1 Toxicity**

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

| Chemical Name | Ecotoxicity - Freshwater Algae - Acute Toxicity Data | Ecotoxicity - Freshwater Fish - Acute Toxicity Data | Ecotoxicity - Water Flea - Acute Toxicity Data |
|---|---|---|---|
| Sodium Chloride<br>7647-14-5 | | LC50 (96 h) 5560-6080 mg/L (Lepomis macrochirus) flow-through<br>LC50 (96 h) 6420-6700 mg/L (Pimephales promelas) static<br>LC50 (96 h) 6020-7070 mg/L (Pimephales promelas) static<br>LC50 (96 h) 4747-7824 mg/L (Oncorhynchus mykiss) flow-through<br>LC50 (96 h) 12946 mg/L (Lepomis macrochirus) static<br>LC50 (96 h) 7050 mg/L (Pimephales promelas) semi-static | EC50 (48 h) 340.7 - 469.2 mg/L Daphnia magna, static<br>EC50 (48 h) 1000 mg/L Daphnia magna |
| Potassium Chloride<br>7447-40-7 | | LC50 (96 h) 1060mg/L (Lepomis macrochirus) static<br>LC50 (96 h) 750 - 1020mg/L (Pimephales promelas) static | |

**12.2 Persistence and degradability**

No data is available on the product itself

**12.3 Bioaccumulative potential**

No information available

**12.4 Mobility in soil**

No information available

**12.5 Results of PBT and vPvB assessment**

No information available.

**12.6 Other adverse effects**

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors

## 13. DISPOSAL CONSIDERATIONS

**Waste from Residues/Unused Products** Dispose of in accordance with local regulations

**Contaminated Packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

**IMDG/IMO** Not regulated

**ICAO** Not regulated

**ICAO/IATA** Not regulated

**DOT** Not regulated

**TDG** Not regulated

## 14. TRANSPORT INFORMATION

**MEX** Not regulated

## 15. REGULATORY INFORMATION

**International Inventories**

| Chemical Name | TSCA | EINECS / ELINCS | DSL / NDSL | PICCS | ENCS | IECSC | AICS | KECL |
|---|---|---|---|---|---|---|---|---|
| Water, Ultra-pure | Listed | Listed | Listed | Listed | | Listed | Listed | Listed |
| Sodium Chloride | Listed | Listed | Listed | Listed | Listed | Listed | Listed | Listed |
| Sodium Phosphate Dibasic Anhydrous | Listed | Listed | Listed | Listed | Listed | Listed | Listed | Listed |
| Potassium Chloride | Listed | Listed | Listed | Listed | Listed | Listed | Listed | Listed |
| Potassium Phosphate Monobasic Anhydrous | Listed | Listed | Listed | Listed | Listed | Listed | Listed | Listed |

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances / EU List of Notified Chemical Substances
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**PICCS** - Philippine Inventory of Chemicals and Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Subtances
**AICS** - Australian Inventory of Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances

## 16. OTHER INFORMATION

**Disclaimer**
**The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text**

**End of Material Safety Data Sheet**

**Key literarure references and sources for data**
www.ChemADVISOR.com/