

## SPI Supplies Division

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Manufacturer's CAGE: 1P573

## Safety Data Sheet

Date Effective: June 7, 2018

SPI Catalog # 02591-AB  
SPI-Chem™ Karnovsky's Fixative Kit  
0.2M Phosphate Buffer Component

### Section 1.1: Identification

Chemical Name/Synonyms ..... 0.2M Phosphate Buffer

Product or Trade Name ..... Component of SPI-Chem™ Karnovsky's Fixative

CAS #'s ..... 10049-21-5, 7558-79-4, 7732-18-5

Chemical Formula..... Mixture

### Section 1.2: Relevant Uses/Restrictions

Buffer component of SPI-Chem™ Karnovsky's Fixative Kit.

### Section 1.3: Supplier of the Safety Data Sheet

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### Section 1.4: Emergency telephone number

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-741-5970

Toll-free phone: 1-(800)-424-9300 USA + Canada only

### Section 2: Hazard Identification

#### 2.1 Classification of the substance

**GHS Classification:** Non-Hazardous.

#### 2.2 Label elements

**Pictogram:** Not applicable.

**Signal Word:** Not applicable.

**Hazard statements:** Low hazard for normal industrial use.

**Precautionary statements:** Dispose of contents/container in accordance with local, regional, national and/or international regulations.

### 2.3 Other Hazards:

#### Hazardous Material Information System USA

Health ..... 0  
Fire Hazard ..... 0  
Reactivity ..... 0  
Personal Protection .....

#### NFPA Rating (estimated)

Health ..... 0  
Flammability..... 0  
Reactivity ..... 0

## **Section 3: Composition**

### 3.1 Substances: Mixture

### 3.2 Mixtures:

| <u>Component</u>                       | <u>CAS #</u> | <u>EC #</u> | <u>% in Product</u> |
|--|--------------|-------------|---------------------|
| Sodium phosphate monobasic monohydrate | 10049-21-5   | Unknown     | 0-5                 |
| Sodium phosphate dibasic anhydrous     | 7558-79-4    | 231-448-7   | 0-5                 |
| Water                                  | 7732-18-5    | 231-791-2   | 91-100              |

## **Section 4: First Aid Measures**

### 4.1 Description of first aid measures:

No first aid measures are indicated.

## **Section 5: Fire Fighting Measures**

**5.1 Extinguishing media:** No data available.

**5.2 Special hazards arising from the substance or mixture:** No data available.

**5.3 Hazardous combustion products:** No data available.

**5.4 Advice for firefighters:** No data available.

**5.5 Special protective equipment and precautions for firefighters:** No data available.

## ***Section 6: Accidental Release Measures***

### **6.1 Personal precautions:**

No special measures are indicated.

## ***Section 7: Handling and Storage***

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

Store at 4 °C.

## ***Section 8: Exposure Controls and Personal Protection***

### **8.1 Control parameter and Personal Protection:**

**Workplace exposure limits:** None known.

**Biological limit values:** None known.

### **8.2 Exposure controls:**

**8.2.1 Appropriate engineering controls:** None known.

**8.2.2 Individual protection measures:** No special protection is indicated.

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for the hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product.

Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product. Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

**8.2.3 Environmental exposure controls:** No special measures required.

## ***Section 9: Physical and Chemical Properties***

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

**Appearance:** clear, colorless liquid

**Odor:** No data available

**Odor threshold:** No data available

**pH:** No data available  
**Melting point/Freezing point:** 0 °C  
**Boiling point/Boiling point range:** 100 °C  
**Flash Point:** No data available  
**Evaporation rate:** No data available  
**Flammability (solid, gas):** No data available  
**Upper/lower flammability or explosive limits:** No data available  
**Vapor Pressure:** No data available  
**Vapor density:** No data available  
**Specific gravity:** 1.01  
**Solubility:** miscible  
**Partition coefficient (n-octanol/water):** No data available  
**Auto-ignition temperature:** No data available  
**Decomposition temperature:** No data available  
**Viscosity:** No data available  
**Explosive properties:** Not explosive  
**Oxidizing Properties:** Not an oxidizer

**9.2 Other information:** No further relevant information available.

## ***Section 10: Stability and Reactivity***

- 10.1 Reactivity:** Stable
- 10.2 Chemical Stability:** Stable
- 10.3 Possibility of Hazardous Reactions:** Hazardous polymerization will not take place.
- 10.4 Conditions to avoid:** No data available.
- 10.5 Incompatible materials:** No data available.
- 10.6 Hazardous decomposition products:** No data available.

## ***Section 11: Toxicological Information***

**Information on the likely routes of exposure:**

- 11.1 Information on toxicological effects:** No data available.

## ***Section 12: Ecological Information***

- 12.1 Toxicity:** No data available.
- 12.2 Persistence and degradability:** No data available.

**12.3 Bio-accumulative potential:** No data available.

**12.4 Mobility in soil:** No data available.

**12.5 Results of PBT and vPvB assessment:** No data available.

**12.6 Other adverse effects:** No data available.

## ***Section 13: Disposal Considerations***

### **13.1 Waste treatment methods:**

Dispose of the material in compliance with all Federal, State, and Local Regulations.

## ***Section 14: Transport Information***

**DOT:** Not regulated.

**IATA:** Not regulated.

**IMDG:** Not regulated.

## ***Section 15: Regulatory Information***

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

#### **U.S. Government Regulations:**

**TSCA Inventory:** All components of this product are on the TSCA public inventory.

**SARA Section 313:** None of the components of this product are listed under SARA Section 313.

**SARA Section 355 Extremely Hazardous Substances and TPQs:** None of the components of this product are listed and none have a TPQ listed.

#### **CERCLA Hazardous Substances and their Reportable Quantities (RQs):**

7558-79-4, Sodium phosphate, dibasic 5000 lbs. as listed in 40 CFR Part 302, Table 302.4.

**California Prop. 65:** None of the components are listed.

**State Right-to-Know Lists:** None of the components are listed.

### **15.2 Chemical Safety Assessment:** Has not been carried out.

Date of Preparation: 07 June 2018.

#### **Abbreviations and acronyms**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

CMRG: Chemical Manufacturer's Recommended Guidelines

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bio-accumulative and Toxicological  
vPvB: very Persistent and very Bio-accumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety Health  
ATE: Acute Toxicity Estimates  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
STEL: Short Term Exposure Limit  
CEIL: Ceiling

## ***Section 16: Other Information***

### **Disclaimer of Liability:**

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

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