

## Material Safety Data Sheet

### 1. Product and Company

**Product name:** pH Standard Buffer Solution

**Other name:** None

**Product number:** 8-04 pH 7.00 Buffer

**Recommended use and restrictions:** pH Meter Calibration(Correction)

**Manufacturer/Supplier:**

Suntex Instruments Co., Ltd.

13F., No.31, Ln. 169, Kangning St., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)

Telephone: +886-2-2695-9688 / FAX: +886-2-2695-9651

**Emergency telephone number:** TEL: +886-2-2695-9688

### 2. Hazard Identification

**Classification of the substance:**

Acute toxicity (Swallow)(the FIFTH grade)

Skin corrosion/ irritation(the THIRD grade)

Serious injury / eyes irritation(the SECOND grade)

**Pictogram:** Symbol of exclamation point

**Signal word:** Warning

**Hazard statement:**

May be harmful if swallowed.

Cause mild skin irritation.

Cause serious eyes irritation.

**Prevention:**

IF IN EYES: rinse cautiously with clean water for more than

15 minutes. If sensory stimulation is remained still, please go to see the oculist ASAP.

Avoid skin and eye contact / Wear suitable gloves / Avoid sunlight/Placed at a cool & dry place / Tightly covered container / placed in well-ventilated premises

**Other hazards:**



### 3. Component identification information

Pure substances:

<b>Name:</b> Neutral phosphate pH standard buffer
<b>Synonyms:</b> None
<b>CAS registry number (CAS No.):</b> KH <sub>2</sub> PO <sub>4</sub> Potassium dihydrogen phosphate raw materials CAS registration number 7778-77-0, Na <sub>2</sub> HPO <sub>4</sub> disodium hydrogen phosphate of the registration number 7558-79-4
<b>Composition of hazardous substances (The percentage composition):</b> 0.3% Potassium dihydrogen phosphate, 0.4% Disodium hydrogen phosphate

Mixture :

<b>Chemical properties:</b>		
Composition of hazardous substances	Concentration or concentration range (The percentage composition)	(CAS No.)
Potassium dihydrogen phosphate	0.3%	7778-77-0
Disodium hydrogen phosphate	0.4%	7558-79-4
Deionized Water	>99%	7732-18-5

### 4. First aid measures

<b>Emergency approaches for the first aid:</b>	
Inhalation:	Stay quiet after gargling and then keep warm.
Skin contact:	Rinse with plenty of water.
Eye contact:	Rinse with clean water for more than 15 minutes. If sensory stimulation is remained still, please go to see the oculist ASAP.
Ingestion:	When eating a large quantity of this material by mistake, please use plenty of lukewarm water or milk to help vomiting, and then please receive medical advice ASAP.
<b>The most important symptoms and hazardous effects:</b> Irritating to the skin	
<b>Protection of emergency personnel:</b> Wear gloves to avoid direct contact and eating by mistake.	
<b>Prompted by the doctor:</b> Give proper treatment to the symptoms of the injured.	

### 5. Fire-fighting measures

<b>Suitable extinguishing media:</b> Dry powder, carbon dioxide, foam, water
<b>Hazardous combustion products:</b> None
<b>Probable danger when putting out the fire:</b> None
<b>Special fire fighting procedures:</b> Need not
<b>Special protective equipment for firefighter:</b> General fireproof equipment

## 6. Accidental release measures

**Personal precautions:** Wear gloves and goggles

**Environmental Considerations:**

**Methods for cleaning up:**

Containers made of polyethylene should be treated as a waste-disposal.

## 7. Handling and Storage

**Disposal:** General location

**Storage:** Avoid exposure

## 8. Exposure prevention measures

**Engineering controls:**

Set wash, watering facilities.

**Control parameter:**

Averaged allowable concentration within 8 hours of daylight / averaged allowable concentration in a short time / maximum allowable concentration; In normal use, there is no limit to concentration.

Biological indicators: None

**Personal protective equipment:** None

**Respiratory Protection:** Need not

**Hand Protection:** Gloves

**Eye Protection:** Goggle

**Skin and body protection:** Lab coat

**Hygiene measures:** Wash your hands

## 9. Physical and chemical properties

<b>Appearance (physical state, color...):</b> Liquid, colorless	<b>Odor:</b> None
<b>Odor threshold:</b> no odor	<b>Melting point:</b> 0°C
<b>pH value:</b> 7.00 (25°C) °	<b>Boiling point / range:</b> approx. 100°C
<b>Flammability (solid, gas):</b> non-flammable liquids	
<b>Decomposition temperature:</b> The liquid does not decompose.	<b>Flash Point:</b> / °F / °C <b>Test approaches:</b> / Open cup / closed cup
<b>Ignition temperature:</b> Water solution does not combust spontaneously.	<b>Explosion:</b> Water Solution does not explode.

Vapor pressure: --	Vapor density: --
Density: 1g/cm <sup>3</sup>	Solubility:
Octanol / water partition coefficient (log K <sub>ow</sub> ) :	Evaporation rate:

## 10. Stability and reactivity

<b>Stability:</b> Very stable
<b>Special Conditions of Hazardous Reaction:</b> None
<b>Conditions to avoid:</b> None
<b>Materials to avoid:</b> None
<b>Hazardous Decomposition Products:</b> None

## 11. Toxicity Data

<b>Route of exposure:</b> Mouth, eyes
<b>Symptoms:</b> slight eye irritation if exposed
<b>Acute Toxicity:</b> No acute toxicity
<b>Chronic or long-term toxicity:</b> No opinion

## 12. Ecological information

<b>Ecology toxicity:</b> Weak acid
<b>Persistence and degradability:</b> biodegradable
<b>Bioaccumulation:</b> not accumulate
<b>Mobility in soil:</b> no opinion
<b>Other adverse effects:</b> None

## 13. Waste disposal methods

<b>Waste disposal methods:</b> Among the substances containing phosphorus compounds, disposal of wastewater should be treated to meet the regulations ruled by science parks or industrial areas.
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## 14. Transport information

<b>UN:</b> Not applicable <b>IATA:</b> not restricted.
<b>UN shipping name:</b> Not applicable. <b>IATA:</b> not restricted.
<b>Hazard Classification:</b> Not apply to non-hazardous materials
<b>Packing Type:</b> drum, bottle
<b>Marine pollutant (yes / no):</b> Yes
<b>Special delivery methods and precautions:</b> Avoid leakage

## 15. Regulatory information

### Applicable Regulations:

Occupational Safety and Health regulations, industrial waste treatment and storage facilities, standard clearance.

## 16. Other information

<b>References</b>	Japan Chemical Industry Co., Ltd. pharmacological material safety data sheets	
<b>Form maker</b>	Name: Suntex Instruments Co., Ltd.	
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<b>Lister</b>	Title: QC Chief	Name: Dolphin Jiang
<b>Date of issue</b>	2021.01.01	
<b>Note:</b> The above data "--" indicates no data or not applicable.		

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