


Material Safety Data Sheet

1. Product and Company

Product name: pH Standard Buffer Solution
Other name: None
Product number: 8-03 pH 4.01 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

<p>Classification of the substance: Acute toxicity (Swallow)(the FIFTH grade) Skin corrosion/ irritation(the THIRD grade) Serious injury / eyes irritation(the SECOND grade)</p>	
<p>Pictogram: Symbol of exclamation point</p>	 <p>急毒性物質第4級 腐蝕/刺激皮膚物質第2級 嚴重損傷/刺激眼睛物質第2級 皮膚過敏物質</p>
<p>Signal word: Warning</p>	
<p>Hazard statement: May be harmful if swallowed. Cause mild skin irritation. Cause serious eyes irritation.</p>	
<p>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</p>	
<p>Other hazards:</p>	

3. Component identification information

Pure substances:

Name: Phthalate pH Standard Solution
Synonyms: None
CAS registry number (CAS No.): 877-24-7
Composition of hazardous substances (The percentage composition): 1%Potassium Hydrogen Phthalate

Mixture :

Chemical properties:		
Composition of hazardous substances	Concentration or concentration range (The percentage composition)	(CAS No.)
Potassium Hydrogen Phthalate	1%	877-24-7
Deionized Water	>99%	7732-18-5

4. First aid measures

Emergency approaches for the first aid:	
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.
The most important symptoms and hazardous effects: Irritating to the skin	
Protection of emergency personnel: Wear gloves to avoid direct contact and eating by mistake.	
Prompted by the doctor: Give proper treatment to the symptoms of the injured.	

5. Fire-fighting measures

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

Appearance (physical state, color...): Liquid, colorless	Odor: None
Odor threshold: no odor	Melting point: 0°C
pH value: 4.01 (25°C) °	Boiling point / range: approx. 100°C
Flammability (solid, gas): non-flammable liquids	
Decomposition temperature: The liquid does not decompose.	Flash Point: / °F / °C Test approaches: / Open cup / closed cup
Ignition temperature: Water solution does not combust spontaneously.	Explosion: Water Solution does not explode.

Vapor pressure: --	Vapor density: --
Density: 1g/cm ³	Solubility:
Octanol / water partition coefficient (log K _{ow}) :	Evaporation rate:

10. Stability and reactivity

Stability: Very stable
Special Conditions of Hazardous Reaction: None
Conditions to avoid: None
Materials to avoid: None
Hazardous Decomposition Products: None

11. Toxicity Data

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

12. Ecological information

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

13. Waste disposal methods

Waste disposal methods: 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

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

15. Regulatory information

Applicable Regulations:

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

16. Other information

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

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