

# Vernier Software & Technology

## Material Safety Data Sheet (MSDS)

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### Section 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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#### Vernier pH Storage Solution

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### Section 2 — COMPOSITION, INFORMATION ON INGREDIENTS

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Potassium Hydrogen Phthalate <1.5%  
Synonym: potassium acid phthalate  
Formula: KHC<sub>8</sub>H<sub>4</sub>O<sub>4</sub>  
CAS#: 877-24-7

Hydrochloric Acid <0.5%  
Formula: HCl  
CAS#: 7647-01-0

Water >88%  
Formula: H<sub>2</sub>O  
CAS#: 7732-18-5

Potassium Chloride <10%  
Formula: KCl  
CAS#: 7447-40-7

CAS#: None established.

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### Section 3 — HAZARDS IDENTIFICATION

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Colorless, odorless liquid. Mildly irritating to skin, eyes, and mucous membranes.

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### Section 4 — FIRST AID MEASURES

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Call a physician, seek medical attention for further treatment, observation and support after first aid.  
Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.  
Eye: Immediately flush with fresh water for 15 minutes.  
External: Wash continuously with fresh water for 15 minutes.  
Internal: Give large quantities of water. Call a physician or poison control at once.

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### Section 5 — FIRE FIGHTING MEASURES

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Non flammable, non combustible liquid.

**NFPA Code:** None established

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### Section 6 — ACCIDENTAL RELEASE MEASURES

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Restrict unprotected personnel from area and ventilate area. Contain spill with sand or absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

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### Section 7 — HANDLING AND STORAGE

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Store with other buffers.

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### Section 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.  
pH Storage Solution (cont.)

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**Section 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Colorless, odorless liquid.  
Specific Gravity: 1.0

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**Section 10 — STABILITY AND REACTIVITY**

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Avoid heat.  
Shelf life: Fair

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**Section 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: mild irritant  
Chronic effects: N.A.  
Target organs: N.A.  
IHL-RAT LC50: N.A.  
SKN-RBT LD50: N.A.

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**Section 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**Section 13 — DISPOSAL CONSIDERATIONS**

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Please consult with state and local regulations.  
Flinn Suggested disposal Method #26b is one option.

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**Section 14 — TRANSPORT INFORMATION**

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Shipping Name: Not regulated  
Hazard Class: N/A  
UN Number: N/A  
N/A = Not applicable

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**Section 15 — REGULATORY INFORMATION**

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Not listed.

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**Section 16 — OTHER INFORMATION**

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