



SDS #: 145
Revision Date: May 16, 2018

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Buffer Solution pH 4.00 Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Buffer Solution pH 4.00

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
Chemtrec Emergency Phone Number: (800) 424-9520

Signal Word
WARNING

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral, dermal, and inhalation (Category 5). May be harmful if swallowed, inhaled or in contact with skin (H303+H313+H333).

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2B). Causes skin and eye irritation (H315+H320).



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Hydrochloric acid	7647-01-0	HCl	36.46	<0.5%>
Potassium acid phthalate	877-24-7	KHC ₈ H ₄ O ₄	204.23	<1.5%>
Buffer preservative, colored or colorless	Mixture	Mixture	Mixture	<0.5%>
Methylparaben solution (preservative)	Mixture	Mixture	Mixture	<0.5%>
Water	7732-18-5	H ₂ O	18.00	>98%

SECTION 4 — FIRST AID MEASURES

Call POISON CENTER or physician if you feel unwell (P312).

If inhaled: Call a POISON CENTER or physician if you feel unwell (P304+P312). **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists eyes:** Get medical advice or attention (P337+P313). **If on skin:** Wash with plenty of water (P302+P352). **If skin irritation occurs:** Get medical advice or attention (P332+P313).

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA Code
None established

SECTION 6 — ACCIDENTAL RELEASE MEASURES
Ventilate area and contain the spill with sand or other inert absorbent material, neutralize with sodium bicarbonate or calcium hydroxide, and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE
Flinn Suggested Chemical Storage Pattern: Inorganic Miscellaneous. Store with other buffers.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION
Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES
Red or colorless liquid. Odorless.
pH: 4.00
Specific gravity: 1.0

SECTION 10 — STABILITY AND REACTIVITY
Avoid heat.
Shelf life: Fair.

SECTION 11 — TOXICOLOGICAL INFORMATION
Acute effects: Mild irritant.
Chronic effects: N/A.
Target organs: N/A.
ORL-RBT LD₅₀: 900 mg/kg (as concentrated HCl)
IHL-RAT LC₅₀: 3124 ppm/4 hour (as concentrated HCl)
SKN-RBT LD₅₀: N/A.

SECTION 12 — ECOLOGICAL INFORMATION
Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS
Please review all federal, state and local regulations that may apply before proceeding.
Flinn Suggested Disposal Method #26b is one option.

SECTION 14 — TRANSPORT INFORMATION
Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

SECTION 15 — REGULATORY INFORMATION
Not listed.

SECTION 16 — OTHER INFORMATION
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N/A = Not available, not all health aspects of this substance have been fully investigated.
N/A = Not applicable

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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