



SDS #: 155

Revision Date: March 21, 2014

Buffer Solution Concentrated pH 7.00 Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Buffer Solution Concentrated pH 7.00

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-9530

Signal Word**DANGER**

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314). Do not breathe mist, vapors or spray (P260).

Pictograms



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Potassium phosphate monobasic	13761-79-0	KH_2PO_4	136.09	<20%>
Sodium hydroxide	1330-43-4	NaOH	39.997	3%
Methylparaben solution	99-76-3	$\text{C}_8\text{H}_8\text{O}_3$	152.16	0.2%
Water	7732-18-5	H_2O	18.00	>81%

SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

If inhaled: Remove victim to fresh air in a position comfortable for breathing (P304+P340).

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 on skin or hair:** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). Wash contaminated clothing before reuse (P363).

If swallowed: Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

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. Contain the spill with sand or absorbent material 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).

Exposure guidelines: (as sodium hydroxide) PEL 2 mg/m³ (OSHA), Ceiling 2 mg/m³ (ACGIH), IDLH 10 mg/m³

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear liquid. Odorless.

pH: 7 when diluted properly.

Dilute prior to use. Dilute 4 mL of concentrate to 100 mL with deionized water.

SECTION 10 — STABILITY AND REACTIVITY

Avoid heat.

Shelf life: Good, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Eye and skin burns. Mucous membrane irritant. pneumonitis.

Chronic effects: N.A.

Target organs: Eyes, skin, respiratory system

ORL-RAT LD₅₀: 500 mg/kg (as sodium hydroxide)

IHL-RAT LC₅₀: N.A.

SKN-RBT LD₅₀: 50 mg/24H (as sodium hydroxide)

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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