

## Buffer Solution Concentrated pH 10.00 Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Buffer Solution Concentrated pH 10.00

Signal Word  
**DANGER**

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

Chemtrec Emergency Phone Number: (800) 424-9531

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Reproductive toxicity (Category 1B). May damage fertility or the unborn child (H360). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).



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 |
|--------------------------------|------------|--|----------------|---------------|
| Sodium tetraborate decahydrate | 1303-96-4  | $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$ | 381.42         | 5%            |
| Sodium hydroxide               | 1310-73-2  | NaOH   | 39.997         | 1%            |
| Water                          | 7732-18-5  | $\text{H}_2\text{O}$   | 18.00          | 94%           |

### SECTION 4 — FIRST AID MEASURES

**If exposed or concerned:** Get medical advice or attention (P308+P313).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**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

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**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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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.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Inorganic Miscellaneous. Store with other buffers.

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling.

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Clear liquid. Odorless. pH: 10  
Buffer and distilled water.

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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: Mildly corrosive. | ORL-RAT LD <sub>50</sub> : N.A. |
| Chronic effects: N.A.            | IHL-RAT LC <sub>50</sub> : N.A. |
| Target organs: N.A.              | SKN-RBT LD <sub>50</sub> : 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 review all federal, state and local regulations that may apply before proceeding.  
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.

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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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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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