



# ELECTRO-CHEMICAL DEVICES

Liquid Analytical Instrumentation for Process Control

*Bringing Simplicity  
to a Solution*

## Material Safety Data Sheet

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### Section 1: Chemical Product and Company Identification

**Catalog Number:**

ECD P/N 2010103

**Product Identity:**

BUFFER, REFERENCE STD, pH 10.00

**Manufacturer's Name:**

Electro-Chemical Devices, Inc.

1681 Kettering

Irvine, CA 92614

Phone: 1-(800) 729-1333

**Date Prepared:**

6/15/09

**Revision: C**

Last Revised: 1/15/15

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### Section 2: Hazard Identification

**Emergency Overview:** Non-flammable, non-toxic, non-corrosive. Does not present any significant health hazards. Wash areas of contact with water.

**Target Organs:** eyes, skin

**Eye Contact:** May cause slight irritation.

**Inhalation:** May cause irritation.

**Skin Contact:** May cause slight irritation.

**Ingestion:** May cause nausea, vomiting, diarrhea and cramps.

**Chronic Effects/Carcinogenicity:** None

**IARC - No.**



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NTP - No.

OSHA - No.

**Reproductive Information:** Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Sodium Bicarbonate.

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**Teratology (Birth Defect) Information:** Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Sodium Bicarbonate.

**HMIS Rating:**



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## Section 3. Composition/Information on Ingredients

| Component          | CAS Registry # | Concentration | ACGIH TLV     | OSHA PEL      |
|--------------------|----------------|---------------|---------------|---------------|
| Sodium Bicarbonate | 144-55-8       | < 1           | Not Available | Not Available |
| Sodium Carbonate   | 497-19-8       | < 1           | Not Available | Not Available |
| Water, Deionized   | 7732-18-5      | Balance       | Not Available | Not Available |
| Preservative       |                | < 0.1         | Not Available | Not Available |

(No Mercury compounds or proprietary Formaldehyde)

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## Section 4: First Aid Measures - In all cases, seek qualified evaluation.

**Eye Contact:** Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

**Inhalation:** Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

**Skin Contact:** Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops.

**Ingestion:** Dilute with water or milk. Call a physician if necessary.

## Section 5: Fire Fighting Measures



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**Flash Point:** Not Available. **Method Used:** Not Available.

**LFL:** Not Available. **UFL:** Not Available.

**Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Fire & Explosion Hazards:** Not considered to be a fire or explosion hazard.

**Fire Fighting Instructions:** Use normal procedures/instructions.

**Fire Fighting Equipment:** Use protective clothing and breathing equipment appropriate for the surrounding fire.

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## Section 6: Accidental Release Measures

Absorb with suitable material and treat as normal refuse. Small amounts of the liquid may be flushed to the drain with excess water. Always dispose of in accordance with local regulations.

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## Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

**Safety Storage Code:** General

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## Section 8: Exposure Control/Personal Protection

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves.

**Eye Protection:** Safety glasses or goggles.

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## Section 9: Physical and Chemical Properties

**Appearance:** Clear, colorless liquid **pH:** 10.0

**Odor:** Odorless **Boiling Point (°C):** Approximately 100

**Solubility in Water:** Infinite **Melting Point (°C):** Approximately 0



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**Specific Gravity:** Approximately 1 **Vapor Pressure:** Not Applicable.

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## Section 10: Stability and Reactivity

**Chemical Stability:** Stable under normal conditions of use and storage.

**Incompatibility:** Acids

**Hazardous Decomposition Products:** Oxides of Sodium.

**Hazardous Polymerization:** Will not occur.

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## Section 11. Toxicological Information

LD50, Oral, Rat: 4090 mg/kg (Sodium Carbonate), 4220 mg/kg (Sodium Bicarbonate), details of toxic effects not reported other than lethal dose value.

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## Section 12. Ecological Information

**Ecotoxicological Information:** No information found.

**Chemical Fate Information:** No information found

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## Section 13. Disposal Considerations

Dilute with water, then flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

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## Section 14. Transport Information

This product is not regulated by the DOT.

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## Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)



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**OSHA Status:** The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

**TSCA Status:** All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

**Section 302 Extremely Hazardous Substances:** Not Applicable.

**Section 311/312 Hazardous Categories:** No

**Section 313 Toxic Chemicals:** Not Applicable.

**California:** None Reported.

**Pennsylvania:** None Reported.

**RCRA Status:** Not Applicable.

**CERCLA Reportable Quantity:** None Reported.

**WHMIS:** Not Applicable.

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## Section 16. Other Information

NFPA Ratings:

Health: 1 Flammability: 0 Reactivity: 0 Special Notice Key: None

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and Electro-Chemical Devices, Inc. Assumes no legal responsibility or liability whatsoever resulting from its use.

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