

MATERIAL SAFETY DATA SHEET  
NCL of Wisconsin, Inc.  
P.O. Box 8  
Birnamwood, WI 54414  
Emergency Telephone No: 800-424-9300 (Chemtrec)

PRODUCT NAME: pH 4.00 BUFFER with 0.1 M NaCl  
NCL CATALOG NUMBER: B-44A  
Date of this revision: 10/17/2007

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1. CHEMICAL PRODUCT IDENTIFICATION

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Trade name: None.  
Chemical Formula: Solution in water.  
Formula CAS No: Not applicable.  
Molecular Weight: Not applicable.

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2. COMPOSITION

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Component	CAS#	Approx %
Water	7732-18-5	98.3
Potassium Hydrogen Phthalate	877-24-7	1.1
Sodium Chloride	7647-14-5	0.6

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3. HAZARD IDENTIFICATION

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Do not get in eyes, on skin or on clothing. Minimal contact, as with all chemicals, is a good policy to follow. Remove and wash contaminated clothing before re-use.  
Routes of entry: Ingestion, inhalation, or skin contact.  
Carcinogenicity: This material is not listed (IARC, NTP, OSHA) as a cancer causing agent.

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4. FIRST AID MEASURES

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Ingestion: Give two glasses of water to dilute. Call a physician.  
Inhalation: Remove to fresh air. Give artificial respiration if breathing has stopped.  
Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.  
Skin: Immediately flush skin with plenty of water. Get medical attention if irritation develops.

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5. FIRE FIGHTING MEASURES:

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Flash Point: Not Applicable.  
Flammable Limits (LEL): Not Applicable.  
Flammable Limits (UEL): Not Applicable.  
Fire Extinguishing Media: Use any suitable means for surrounding materials.  
Explosion Hazards: None known.

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#### 6. ACCIDENTAL RELEASE MEASURES

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Evacuate area of non-essential personnel. Eliminate ignition sources.  
Scoop up material and transfer to a plastic container and send to a RCRA-approved waste facility.  
Ensure compliance with Federal, State, and local regulations.

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#### 7. HANDLING AND STORAGE

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Store at room temperature. Avoid contact with eyes. Do not breathe mist.

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#### 8. EXPOSURE CONTROLS

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Airborne Exposure Limits: None established for product.  
Ventilation System: None normally required.  
Personal Respirators (NIOSH Approved): None normally required.  
Skin Protection: Rubber gloves may be worn to prevent skin contact.  
Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material.  
Maintain eye-wash fountain and quick-drench facilities in work area.

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#### 9. PHYSICAL CHEMICAL PROPERTIES

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Appearance: Clear, colorless liquid.  
Odor: None.  
Solubility: Infinitely soluble in water.  
Boiling Point: 100 C (212°F).  
Melting Point: 0 C (32°F).  
Specific Gravity: 1.0  
Vapor Density (Air=1): Essentially the same as water.  
Vapor Pressure (mm Hg): Essentially the same as water.  
Evaporation Rate: Essentially the same as water.

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#### 10. STABILITY AND REACTIVITY

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Stability: Stable under ordinary conditions of use and storage.  
Hazardous Decomposition Products: None known.  
Hazardous Polymerization: This substance does not polymerize.  
Incompatibilities: None found.

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#### 11. TOXICOLOGICAL INFORMATION:

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No toxicity data for product.

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#### 12. ECOLOGICAL INFORMATION

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None found.

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#### 13. DISPOSAL CONSIDERATIONS

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EPA Waste Number: None.  
Ensure compliance with Federal, State, and local regulations.

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#### 14. TRANSPORT INFORMATION

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DOT Shipping Name: Not Regulated.  
DOT Number: None.

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#### 15. REGULATORY INFORMATION

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The CAS numbers of all components of this solution are listed on the TSCA Inventory.

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#### 16. OTHER INFORMATION

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NFPA Hazard Ratings:

Health:	0
Flammability:	0
Reactivity:	0
Special Hazards:	None known.

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The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, NCL of Wisconsin, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgement in determining its appropriateness for a particular purpose. Accordingly, NCL of Wisconsin, Inc. will not be responsible for damages of any kind resulting from the use of or reliance upon such information.

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END OF MATERIAL SAFETY DATA SHEET