

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

PRODUCT NAME: PHOSPHATE BUFFER, pH=7.2 (APHA for BOD)  
NCL CATALOG NUMBER: P-30  
Date of this revision: 09/12/2007

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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	93.3	
Sodium phosphate dibasic heptahydrate		7782-85-6	3.4	
Potassium phosphate dibasic		7758-11-4	2.2	
Potassium phosphate monobasic		7778-77-0	0.9	
Ammonium Chloride		12125-02-9	0.2	

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3. HAZARD IDENTIFICATION

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May be harmful if swallowed. Minimal contact, as with all chemicals, is a good policy to follow.  
Routes of entry: Ingestion, inhalation.  
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: DO NOT induce vomiting. Give large quantities of water and 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.  
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: Wear self-contained breathing apparatus and protective clothing.  
Fire Extinguishing Media: Use any suitable means for surrounding materials.  
Explosion Hazards: Thermal decomposition produces toxic fumes.

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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 container for proper disposal.  
Ensure compliance with Federal, State, and local regulations.

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#### 7. HANDLING AND STORAGE

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Keep in a tightly closed container, stored in a cool, dry, ventilated area. Avoid contact with eyes and skin.

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#### 8. EXPOSURE CONTROLS

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Airborne Exposure Limits: None established for product.  
For 100% Ammonium Chloride (product contains 0.2%)  
ACGIH Threshold Limit Value (TLV): 10 ppm (TWA); 20 mg/cu.m (STEL)  
Ventilation System: Local ventilation is usually sufficient when handling this material.  
Skin Protection: Rubber or neoprene gloves.  
Eye Protection: Use chemical safety goggles. 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: Essentially the same as water.  
Melting Point: Essentially the same as water.  
Specific Gravity: 1.05  
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: When heated to decomposition, can emit toxic gases.  
Hazardous Polymerization: This substance does not polymerize.  
Incompatibilities: Extreme heat. Reaction with hydrogen cyanide can produce explosive nitrogen trichloride. Explosive reaction occurs with potassium chlorate or bromine trifluoride. Violent reaction occurs with bromine pentafluoride, NO<sub>3</sub>, and IF<sub>7</sub>.

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#### 11. TOXICOLOGICAL INFORMATION:

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No toxicity data for product.  
For 100% Ammonium Chloride (product contains 0.2%):  
orl-rat LD50: 1650 mg/kg  
orl-dog LDLo: 600 mg/kg

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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