

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

NCL CATALOG NUMBER: C-38A  
Date of this revision: 02/14/2006

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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
Cupric Sulfate Pentahydrate	7758-99-8	2

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3. HAZARD IDENTIFICATION

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Harmful if swallowed.  
Irritating to eyes, skin, and mucous membranes.  
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, 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: If swallowed, call a physician. DO NOT induce vomiting unless directed to do so by medical personnel.  
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. Cover skin with an emollient. 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: Oxides of copper and sulfur..

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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 breathing vapors. 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% Cupric Sulfate Pentahydrate (product contains 2%):

TWA: 1 mg/m<sup>3</sup> (8 hours) dusts and mists

Ventilation System: None normally required.

Skin Protection: Rubber or neoprene gloves.

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, light blue liquid.

Odor: None.

Solubility: Infinitely soluble in water.

Boiling Point: Essentially the same as water.

Melting Point: Essentially the same as water.

Specific Gravity: 1.0

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: When heated to decomposition, can emit toxic gases.

Hazardous Polymerization: This substance does not polymerize.

Incompatibilities: None found.

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## 11. TOXICOLOGICAL INFORMATION:

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For 100% Cupric Sulfate Pentahydrate (product contains 2%):

oral-rat LD50: 300 mg/kg

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## 12. ECOLOGICAL INFORMATION

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Ecotoxicity in water (LC50): 0.18 mg/l [EC50, Intoxocation], 48 H (Daphnia magna). 0.032 mg/l [LC50, Mortality], 96 hours [Fish (Oncorhynchus mykiss)]. 0.13 mg/l [LC50, Mortality], 96 hours [Fish (Oncorhynchus mykiss)]. 0.892 mg/l [LC50, Mortality], 96 hours [Fish (Lepomis macrochirus)]. 1.2 mg/l [LC50, Mortality], 96 hours [Fish (Oncorhynchus mykiss)]. 1.3 mg/l [LC50, Mortality], 96 hours [Fish (Lepomis macrochirus)].

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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:	1
Flammability:	0
Reactivity:	0
Special Hazards	None known.

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END OF MATERIAL SAFETY DATA SHEET