

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

PRODUCT NAME: FLUORIDE STANDARD, 1000 ppm  
NCL CATALOG NUMBER: F-38  
Date of this revision: 04/05/2007

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1. CHEMICAL PRODUCT IDENTIFICATION

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Trade name: None.  
Chemical Formula: Not applicable.  
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	>99
Sodium Fluoride	7681-49-4	<1

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3. HAZARD IDENTIFICATION

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EMERGENCY OVERVIEW:

HARMFUL IF INHALED OR SWALLOWED  
CAUSES SKIN IRRITATION  
May cause eye burns  
VAPOR IRRITATING

Do not get in eyes, on skin or on clothing. Remove and wash contaminated clothing before re-use. 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: If conscious, give water freely and get medical attention.  
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: Wash thoroughly with soap and water.

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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 yields highly 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 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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Keep in a tightly closed container. Avoid contact with eyes, skin, and clothing.

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#### 8. EXPOSURE CONTROLS

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Airborne Exposure Limits:

None established for product.

For 100% Sodium Fluoride (product contains <1%):

OSHA Permissible Exposure Limit (PEL): 2.5 mg/cu.m. ppm (TWA)

ACGIH Threshold Limit Value (TLV): 2.5 mg/cu.m. (TWA)

Ventilation System: Material should be handled or transferred in a fume hood or with equivalent ventilation.

Personal Respirators (NIOSH Approved): If the TLV is exceeded a full facepiece chemical cartridge respirator may be worn, in general, up to the maximum use concentration specified by the respirator supplier, or up to 100 times the TLV, whichever is less.

Alternatively, a supplied air full facepiece respirator or airtight hood may be worn.

Skin Protection: Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure 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: 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: Contact with oxidizers, and halogen compounds, such as bromine trifluoride, chlorine trifluoride, and fluorine perchlorate.

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#### 11. TOXICOLOGICAL INFORMATION:

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No toxicity data for product.

For 100% Sodium Fluoride (product contains <1%):  
orl-rat LD50: 52 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:	1
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