

# Material Safety Data Sheet

NCL of Wisconsin, Inc.  
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Emergency Telephone No: 800-424-9300 (Chemtrec)

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## Product Identification

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Product Name: YSI 3842 Ammonium Standard, 10 ppm as N  
Synonyms: None. Molecular Weight: NA  
Chemical Name: NA Chemical Family: NA  
Product CAS#: NA Formula: NA

## Ingredients

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1. Ammonium Chloride CAS# 12125-02-9  
Percent: <1 SARA: Not Listed.  
TLV: 10 mg/m<sup>3</sup>. PEL: 10 mg/m<sup>3</sup>  
Hazard: Moderately toxic – May cause irritation
2. Lithium Acetate, Dihydrate CAS# 6108-17-4  
Percent: <1 SARA: Not listed  
TLV: Not established. PEL: Not established  
Hazard: Moderately toxic – May cause irritation
3. Sodium Azide CAS# 26628-22-8  
Percent: <0.01 PEL: 0.3 ppm as NaN<sub>3</sub>  
TLV: 100 ppb Ceiling  
Hazard: Extremely toxic – Explosion Hazard
4. Hydrochloric Acid CAS# 7647-01-0  
Percent: <0.01 SARA: Not Listed.  
TLV: 5 ppm ceiling PEL: 5 ppm ceiling  
Hazard: Causes burns.
5. Deionized water CAS# 7732-18-5  
Percent: >98.8 SARA: Not listed  
TLV: Not applicable. PEL: Not applicable.  
Hazard: None.

## Precautionary Measures

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Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Minimal contact, as with all chemicals, is a good policy to follow.

## Emergency/First Aid

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In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. If swallowed, induce vomiting by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. In all cases, call a physician.

DOT Hazard Class: Not Regulated

Physical Data

Section One

Appearance: Clear colorless solution.  
 Odor: Odorless  
 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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 Fire and Explosion  
 Information  
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Section Two

Fire: Not considered to be a fire hazard.  
 Explosion: Not considered to be and explosion hazard  
 Fire Extinguishing Media: Use any suitable means for extinguishing surrounding fire.

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 Reactivity Data  
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Section Three

Stability: Stable under ordinary conditions of use and storage  
 Hazardous Decomposition Products: Involvement in a fire causes decomposition to form hydrogen chloride and ammonia.  
 Hazardous Polymerization: This substance does not polymerize.  
 Incompatibilities: Concentrated acids, strong bases, silver salts, potassium chlorate, ammonium nitrate, bromine trifluoride, and iodine heptafluoride.

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 Leak/Spill/Disposal  
 Information  
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Section Four

Flush to sewer with large amounts of water.  
 Ensure compliance with Federal, State, and local regulations  
 Reportable Quantity: 5000 lbs.

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 Health Hazard Information  
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Section Five

A. Exposure/Health Effects

Inhalation: No information found.  
 Ingestion: Large doses may cause nausea, vomiting, and acidosis. Target organs: Kidneys, Central nervous system, bone marrow.  
 Skin Contact: Prolonged contact may cause skin irritation.  
 Eye Contact: May cause redness and pain.  
 Chronic Exposure: Cumulative poison (lithium ion) may cause damage to central nervous system. Lithium compounds have been implicated in the development of aplastic anemia.  
 Cancer information: No information found for any ingredient.  
 Aggravation of Pre-existing Conditions: No information found.

B. First Aid

Ingestion: If swallowed, induce vomiting by giving two glasses of water and sticking finger down throat. Never give anything to an unconscious person. Get medical attention immediately.  
 Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.  
 Skin Exposure: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Get medical attention if irritation develops or persists.  
 Eye Exposure: Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attentions immediately.

Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this material. However, if conditions of use create discomfort to a worker, a local exhaust should be considered.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to mist exists, a dust/mist respirator may be worn. For emergencies, a self-contained breathing apparatus may be necessary.

Skin Protection: Rubber gloves and lab coat, apron or overalls.

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 areas.

Keep in a tightly closed container. Protect container from physical damage and direct sunlight.

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END OF MATERIAL SAFETY DATA SHEET