

Safety Data Sheet  
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

<b>Product Name</b>	Ammonia Probe ISA Buffer with pH-Indicating Blue Dye
<b>NCL Catalog Number</b>	A-15HP
<b>Product Description</b>	Laboratory chemical, for use with Thermo Orion High Performance Ammonia ISE.
<b>Supplier</b>	
NCL of Wisconsin, Inc.	<b>Telephone:</b> 1-800-648-7836 <b>Fax:</b> 715-449-2454
P.O. Box 8	<b>Emergency Contact:</b> 1-800-424-9300 (Chemtrec)
Biramwood, WI 54414	<b>Email:</b> <a href="mailto:nclabs@nclabs.com">nclabs@nclabs.com</a>

**SECTION 2: HAZARDS IDENTIFICATION**

Classification of the Substance or Mixture

**GHS Classification**

Flammable Liquids	Category 3
Skin Corrosion	Category 1C
Serious Eye Damage	Category 1
Specific Target Organ Toxicity	Single Exposure Category 1



**Signal Word** Danger

**Hazard Statements**

H226	Flammable liquid and vapor.
H314	Causes severe skin burns and eye damage.
H370	Causes damage to organs.

**Precautionary Statements**

P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe mist/vapors/spray.
P264	Wash exposed skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P308+P311	IF exposed or concerned: Call a POISON CENTER or doctor.

P370+P378	In case of fire: Use carbon dioxide, powder, or alcohol-resistant foam to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to comply with federal, state, and local regulations.

**Other Hazards Not Contributing to the Classification**

None under normal conditions.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Chemical Identity</b>	Not applicable
<b>Common Name</b>	Not applicable

**Mixture**

Name	CAS #	Approximate %
Water	7732-18-5	>76.9
Sodium Hydroxide	1310-73-2	13
Methanol	67-56-1	10
Thymolphthalein	125-20-2	<0.1

**SECTION 4: FIRST AID MEASURES**

**Description of First Aid Measures**

<b>General First Aid Measures</b>	Never give anything by mouth to an unconscious person. Seek medical advice if you feel unwell.
<b>If Inhaled</b>	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
<b>In Case of Skin Contact</b>	Remove all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
<b>In Case of Eye Contact</b>	Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
<b>If Swallowed</b>	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

**Most Important Symptoms/Effects Acute and Delayed**

<b>After Inhalation</b>	Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.
<b>After Skin Contact</b>	Caustic burns and skin corrosion.
<b>After Eye Contact</b>	Causes serious eye damage.
<b>After Ingestion</b>	Abdominal pain. Bleeding of the gastrointestinal tract. Burns to the gastric and intestinal mucosa. Possible esophageal perforation and nausea.

**Indication of Immediate Medical Attention and Special Treatment Needed**

Seek medical attention if exposed.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

<b>Suitable Extinguishing Media</b>	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
<b>Unsuitable Extinguishing Media</b>	Do not use a heavy water stream.

**Special Hazards Arising from the Chemical**

No additional information available. Reacts with some metals: release of highly flammable gases/vapors (hydrogen). Thermal decomposition generates corrosive vapors.

**Special Protective Actions for Fire-Fighters**

Wear self-contained breathing apparatus and protective clothing. Keep containers cool with water spray.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**

<b>Personal Precautions</b>	Use personal protective equipment (see section 8). Evacuate area of non-essential personnel. Eliminate ignition sources.
<b>Environmental Precautions</b>	Prevent entry to sewers and public waters.
<b>Methods and Materials for Containment and Cleaning Up</b>	Collect spillage with inert absorbent material. Store away from other materials. Wash clothing/equipment after handling. Ensure compliance with local, state, and federal regulations.

**SECTION 7: HANDLING AND STORAGE**

**Handling and Storage**

<b>Precautions for Safe Handling</b>	Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
<b>Conditions for Safe Storage Including any Incompatibilities</b>	Keep in a tightly closed container, stored in a cool, dry, ventilated area. Store away from sunlight, which can contribute to instability. Store away from strong acids, strong oxidizers, metals, and metal powders.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control Parameters**

<b>Sodium Hydroxide (1310-73-2)</b>		
USA ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
USA OSHA	OSHA PEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
<b>Methanol (67-56-1)</b>		
USA ACGIH	ACGIH TLV (ppm)	200 ppm
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA OSHA	OSHA PEL (ppm)	200 ppm
USA OSHA	OSHA TWA	200 ppm

<b>Appropriate Engineering Controls</b>	Material should be handled or transferred in a fume hood or with equivalent ventilation.
<b>Individual Protection Measures</b>	Avoid all unnecessary exposure.
<b>Skin Protection</b>	Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.
<b>Eye Protection</b>	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.
<b>Respiratory Protection</b>	Wear appropriate mask.
<b>Other Information</b>	Do not eat, drink, or smoke during use.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Liquid
<b>Color</b>	Dark blue, purple
<b>Odor</b>	Slight alcohol odor
<b>Odor Threshold</b>	Not determined
<b>pH</b>	Strongly alkaline (14)
<b>Melting Point/Freezing Point</b>	Not determined
<b>Initial Boiling Point and Boiling Range</b>	Not determined
<b>Flash Point</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not determined
<b>Upper/Lower Flammability/Explosive Limits</b>	Not determined
<b>Vapor Pressure</b>	Not determined
<b>Vapor Density</b>	Not determined

<b>Relative Density</b>	Not determined
<b>Solubility</b>	Not determined
<b>Partition Coefficient: n-octanol/water</b>	Not determined
<b>Auto-Ignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Viscosity</b>	Not determined

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity</b>	No data available.
<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage.
<b>Possibility of Hazardous Reactions</b>	No data available.
<b>Conditions to Avoid</b>	Extremely high or low temperatures. Heat and sunlight can contribute to instability.
<b>Incompatible Materials</b>	Strong oxidizers, chromic acid, sodium peroxide, nitric acid, strong alkali, heat, flame.
<b>Hazardous Decomposition Products</b>	When heated to decomposition, can emit toxic gases, carbon dioxide, and carbon monoxide.

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity</b>	Not classified
<b>Water (7732-18-5)</b>	
<b>LD50 oral rat</b>	>90000 mg/kg
<b>Sodium Hydroxide (1310-73-2)</b>	
<b>LD50 dermal rabbit</b>	1350 mg/kg
<b>Methanol (67-56-1)</b>	
<b>Orl-hmn LDLo</b>	143 mg/kg
<b>Inh-rat LC50</b>	64000 ppm/4H
<b>Orl-rat LD50</b>	5628 mg/kg
<b>Skin-rbt LD50</b>	15800 mg/kg

<b>Skin Corrosion/Irritation</b>	Causes skin burns.
<b>Serious Eye Damage/Irritation</b>	Causes serious eye damage.
<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive Toxicity</b>	Not classified
<b>Specific Target Organ Toxicity (Single Exposure)</b>	Causes damage to organs.
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	Not classified
<b>Aspiration Hazard</b>	Not classified
<b>Potential Adverse Human Health Effects and Symptoms</b>	No data available
<b>Symptoms/Injuries After Inhalation</b>	Coughing, Irritation of the respiratory tract. Irritation of the nasal mucous membranes.
<b>Symptoms/Injuries After Skin Contact</b>	Caustic burns and corrosion of the skin.
<b>Symptoms/Injuries After Eye Contact</b>	Causes serious eye damage.
<b>Symptoms/Injuries After Ingestion</b>	Abdominal pain. Bleeding of the gastrointestinal tract. Burns to the gastric/intestinal mucosa. Possibility of esophageal perforation and nausea.

**SECTION 12: ECOLOGICAL INFORMATION**

<b>Toxicity</b>	Not applicable
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<b>Persistence and Degradability</b>	Not applicable
<b>Bioaccumulative Potential</b>	Not applicable
<b>Mobility in Soil</b>	Not applicable
<b>Other Adverse Effects</b>	Not applicable

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Methods of Disposal**

<b>Disposal Recommendations</b>	Dispose of contents/containers in accordance with local, state, and federal regulations.
<b>Ecology-Waste Materials</b>	Avoid release to the surrounding environment.

**SECTION 14: TRANSPORT INFORMATION**

<b>UN Number</b>	UN1760
<b>UN Shipping Name</b>	Corrosive liquids, n.o.s.
<b>Transport Hazard Class(es)</b>	Not applicable
<b>Packing Group</b>	Not applicable
<b>Environmental Hazards</b>	Not applicable
<b>Transport in Bulk</b>	Not applicable
<b>Special Precautions</b>	Not applicable

**SECTION 15: REGULATORY INFORMATION**

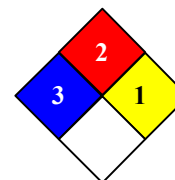
<b>Sodium Hydroxide (1310-73-2)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Methanol (67-56-1)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Water (7732-18-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory
<b>Thymolphthalein (125-20-2)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

**SECTION 16: OTHER INFORMATION**

Revision Date: 01/21/2015

**NFPA Hazards**

<b>Health Hazard</b>	3: Short exposure could cause serious temporary or moderate residual injury.
<b>Fire Hazard</b>	2: Must be moderately heated or exposed to relatively high ambient temperature before ignition can occur and some finely divided suspended solids that do not require heating before ignition can occur.
<b>Reactivity/Instability</b>	1: Normally stable, but can become unstable at elevated temperatures and pressures.



**HMIS III Rating**

<b>Health</b>	3: Major injury likely unless prompt action is taken and medical treatment is given.
<b>Flammability</b>	2: Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur.
<b>Physical Hazard</b>	1: Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.
<b>Personal Protection</b>	H

A-15HP	
Health	3
Flammability	2
Physical Hazard	1
Personal Protection	H

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**END OF SAFETY DATA SHEET**