

12. ECOLOGICAL INFORMATION

None found.

13. DISPOSAL CONSIDERATIONS

EPA Waste Number: None.

Ensure compliance with Federal, State, and local regulations.

14. TRANSPORT INFORMATION

DOT Shipping Name: Flammable liquids, n.o.s. (contains ethanol)

DOT Number: UN1993

15. REGULATORY INFORMATION

The CAS numbers of all components of this solution are listed on the TSCA Inventory.

16. OTHER INFORMATION

NFPA Hazard Ratings:

Health:	1
Flammability:	3
Reactivity:	0
Special Hazards:	None known.

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END OF MATERIAL SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

NCL of Wisconsin, Inc.

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Emergency Telephone No: 800-424-9300 (Chemtrec)

PRODUCT NAME: AMMONIA PROBE pH INDICATOR

NCL CATALOG NUMBER: A-15Z

Date of this revision: 11/05/2008

1. CHEMICAL PRODUCT IDENTIFICATION

Trade name: None.

Chemical Formula: Solution in 50% Ethyl Alcohol.

Formula CAS No: Not applicable.

Molecular Weight: Not applicable.

2. COMPOSITION

Component	CAS#	Approx %
Water	7732-18-5	49.84
Thymolphthalein	125-20-2	0.16
Ethyl Alcohol	64-17-5	46.00
Denaturants present in Ethyl Alcohol:		
4-Methyl-2-pentanone	108-10-1	0.50
Ethyl Acetate	141-78-6	0.50
Methanol	67-56-1	2.50
Aliphatic hydrocarbons	unknown	0.50

3. HAZARD IDENTIFICATION

FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED OR SWALLOWED. CAUSES EYE IRRITATION.

Can be toxic by skin absorption.

After ingestion or inhalation, initial symptoms may be only that of mild intoxication, but may become severe after 12-18 hours. Affects central nervous system, especially the optic nerve. Marked impairment of vision and enlargement of liver has been reported from chronic exposure to methanol. Chronic exposure may also cause damage to kidneys and central nervous system. Causes dizziness, nausea, muscle weakness, narcosis, respiratory failure.

Prolonged or repeated skin contact may cause irritation. Chronic exposure during pregnancy may be harmful.

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: None of the ingredients of this mixture are listed (IARC, NTP, OSHA) as a cancer causing agent.

4. FIRST AID MEASURES

Ingestion: If swallowed, wash out mouth with water. Call a physician immediately.

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. Get medical attention if irritation develops.

5. FIRE FIGHTING MEASURES

Flash Point: 24°C (75°F)

Flammable Limits (LEL): Not Available.

Flammable Limits (UEL): Not Available.

Fire: Wear self-contained breathing apparatus and protective clothing.

Fire Extinguishing Media: Use any suitable means for surrounding materials.

Explosion Hazards: Dangerous explosion and fire hazard. Vapor can travel distances to ignition source and flash back.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS

Airborne Exposure Limits:

None established for product.

For 100% Ethyl Alcohol (product contains 46%)

OSHA Permissible Exposure Limit (PEL): 1000 ppm, 1900 mg/cu.m.

ACGIH Threshold Limit Value (TLV): 1000 ppm, 1880 mg/cu.m.

For 100% Methanol (product contains 2.5%)

OSHA Permissible Exposure Limit (PEL): 200 ppm, 260 mg/cu.m (TWA)

250 ppm, 325 mg/cu.m (STEL)

ACGIH Threshold Limit Value (TLV): 200 ppm, 262 mg/cu.m (TWA)

250 ppm, 328 mg/cu.m (STEL)

For 100% Ethyl Acetate (product contains 0.5%):

OSHA Permissible Exposure Limit (PEL): 400 ppm, 1400 mg/cu.m.

ACGIH Threshold Limit Value (TLV): 400 ppm, 1440 mg/cu.m.

For 100% 4-Methyl-2-pentanone (product contains 0.5%)

OSHA Permissible Exposure Limit (PEL): 50 ppm, 205 mg/cu.m (TWA)

75 ppm, 300 mg/cu.m (STEL)

ACGIH Threshold Limit Value (TLV): 50 ppm, 205 mg/cu.m (TWA)

75 ppm, 307 mg/cu.m (STEL)

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 airlined 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.

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.

9. PHYSICAL CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid.

Odor: Mild characteristic odor of alcohol.

Solubility: Infinitely soluble in water.

Boiling Point: Not Determined.

Melting Point: Not Determined.

Specific Gravity: 0.95

Vapor Density (Air=1): Not Determined.

Vapor Pressure (mm Hg): Not Determined.

Evaporation Rate: Not Determined.

10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage. Store away from acids and metals.

Hazardous Decomposition Products: When heated to decomposition, can emit toxic gases and carbon dioxide.

Hazardous Polymerization: This substance does not polymerize.

Incompatibilities: Strong oxidizers, such as nitrates, perchlorates, or sulfuric acid; heat, and sources of ignition.

11. TOXICOLOGICAL INFORMATION

No toxicity data for product.

For 100% Methanol (product contains 2.5%)

orl-hmn LDLo: 143 mg/kg

inh-rat LC50: 64000 ppm/4 H

orl-rat LD50: 5628 mg/kg

skn-rbt LD50: 15800 mg/kg

Mutagenic and reproductive effects cited in RTECS.