



## MATERIAL SAFETY DATA SHEET

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

**Product Name:** UltraLute

**Product Number:** ULu-## (Where ## Represents Lot Number)

**Intended Use:** Dilution Buffer

**CAS Number:** Blend

**Date of MSDS Preparation:** October 1, 2009

#### Company Identification

LuminUltra Technologies Ltd.

440 King Street

King Tower, Suite 630

Fredericton, New Brunswick

Canada, E3B 5H8

+1-506-459-8777 (For product information)

+1-506-459-8777 (For emergencies)

### SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

#### Component Listing

Chemical Name	Amount	CAS Number
Water	60 – 100 % (w/w)	7732-18-5

This product contains no known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### Exposure Guidelines

No Information Available.

## SECTION 3 – HAZARDS IDENTIFICATION

### **Emergency Overview**

The health hazards of this product should be low under normal industrial and commercial uses.

### **Eye**

Not expected to be a health hazard from eye exposure by chemical action.

### **Skin**

Not expected to be a health hazard from skin exposure.

### **Inhalation**

Not expected to be a health hazard. Vapors are unlikely due to physical properties.

### **Ingestion**

No adverse effects expected. Extremely large oral dosages may produce gastrointestinal disturbances.

### **Carcinogenicity Information**

No known cancer hazards.

## SECTION 4 – FIRST AID MEASURES

### **Eye Contact First Aid:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

### **Skin Contact First Aid**

Not expected to require first aid measures. Wash affected area immediately with large amounts of soap and water. Get medical attention if irritation develops or persists.

### **Inhalation First Aid**

Not expected to require first aid measures. Remove to fresh air. Get medical attention for any breathing difficulty.

### **Ingestion First Aid**

Not expected to require first aid measures. If large amounts were swallowed, give water to drink and get medical advice.

**Notes to Physician**

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.

<b>SECTION 5 – FIRE FIGHTING MEASURES</b>
---

**Flammable Properties**

Non combustible material.

*PMCC Flash Point:* None

*Autoignition Temperature:* None

**Flammable Limits in Air**

LEL: None

UEL: None

**Hazardous Combustion Products**

None

**Extinguishing Media**

Use extinguishing media appropriate to surrounding environment.

**Fire & Explosion Hazards**

No known unusual hazards in a fire/explosion situation.

<b>SECTION 6 – ACCIDENTAL RELEASE MEASURES</b>
--

**Initial Containment**

Contain spilled material. Wipe away excess with an inert absorbent material.

**Small Spills Procedure**

Wipe away excess with an inert absorbent material.

**Containment Technique**

N/A.

**Evacuation Procedures**

N/A.

## SECTION 7 – HANDLING AND STORAGE

### **Handling (Personnel)**

Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

### **Storage**

Keep container tightly closed when not in use and store at 20°C.

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Engineering Controls**

Good general ventilation should be sufficient to control airborne levels.

### **Recommended Personal Protective Equipment:**

*Eye Protection:* Chemical goggles are recommended to avoid contact with eyes.

*Skin Protection:* Wear protective gloves and lab coat to minimize skin contamination.

*Inhalation Protection:* N/A

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

### **Properties**

*Appearance:* Clear, colorless.

*Physical State:* Liquid.

*Odor:* None.

*pH:* 5-9

*Vapor Pressure:* As per water.

*Specific Gravity:* ~ 1.0 (Water).

*Boiling Point:* ~ 100°C (Water).

*Melting Point:* ~ 0°C (Water).

*VOC Content:* N/A.

*Water Solubility:* Miscible.

## SECTION 10 – STABILITY AND REACTIVITY

### **Chemical Stability**

Stable when stored under proper conditions.

### **Polymerization**

Hazardous polymerization will not occur.

## SECTION 11 – TOXICOLOGICAL INFORMATION

No information available.

## SECTION 12 – ECOLOGICAL INFORMATION

No information available.

## SECTION 13 – DISPOSAL CONSIDERATIONS

### **Recommended Technique(s) For Disposal**

Dispose down drain.

### **EPA Hazardous Waste**

No.

### **Empty Containers**

Dispose as normal trash.

## SECTION 14 – TRANSPORT INFORMATION

### **Product Label**

UltraLute

### **D.O.T. Shipping Name:**

Not regulated.

MSDS Number: LUMS001

MSDS Version: 9

Page 5 of 7  
Date Printed: 10/02/09

## SECTION 15 – REGULATORY INFORMATION

### SARA 311 Categories:

*Immediate (Acute) Health Effects:* No

*Delayed (Chronic) Health Effects:* No

*Fire Hazard:* No

*Sudden Release Of Pressure Hazard:* No

*Reactivity Hazard:* No

### Regulatory Lists Searched

01 - SARA 313

03 - ACGIH TWA

05 - CANADIAN WHMIS

07 - CERCLA 302.4

09 - OSHA PEL

02 - SARA 302/304

04 - ACGIH Calc TLV

06 - CA Proposition 65

08 - ACGIH STEL

10 - OSHA Ceiling

### WHMIS Hazard Symbols

None.

### CERCLA Hazardous Substances

None

### Miscellaneous Information

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).

This material or all of its components are listed on the Canadian Domestic Substances List (DSL).

## SECTION 16 – OTHER INFORMATION

### HMIS Rating:

Health: 0

Flammability: 0

Reactivity: 0

### NFPA Rating:

Health: 0

Flammability: 0

Reactivity: 0

**Abbreviations used in this MSDS**

TLV - THRESHOLD LIMIT VALUE

TWA - Time Weighted Average

STEL - SHORT TERM EXPOSURE LIMIT

TPQ - Threshold Planning Quantity

RQ - REPORTABLE QUANTITY

PEL - Permissible Exposure Level

C - CEILING LIMIT

CAS - Chemical Abstract Service Number

NDA - NO DATA AVAILABLE

N/A - Not Applicable or Not Available

*The information above is believed to be accurate and true to the most current information available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall LuminUltra™ Technologies Ltd. be liable for any damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, resulting from the use of our product, even if LuminUltra™ Technologies Ltd. has been advised of the possibility of such damages.*