



MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: LumiClean

Product Number: LC-## (Where ## Represents Lot Number)

Intended Use: Organic Washing Agent

CAS Number: Blend

Date of MSDS Preparation: June 24, 2010

Company Identification

LuminUltra Technologies Ltd.

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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
Acetone	85 – 95%	67-64-1
Water	10 – 15 % (w/w)	7732-18-5

This product contains hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Exposure Guidelines

Refer to Section 8.

SECTION 3 – HAZARDS IDENTIFICATION

Emergency Overview

Flammable liquid. Harmful if swallowed or inhaled. If ingested, vomiting may occur, but do not induce. Prolonged or repeated contact causes skin, eye and respiratory tract irritation. Wash areas of contact with water. May affect central nervous system.

Eye

May cause eye irritation with possible damage to the cornea and conjunctiva.

Skin

May cause skin irritation including drying and cracking.

Inhalation

Avoid breathing vapors or mists. Inhalation of vapors causes respiratory tract irritation. May cause coughing, dizziness and headache.

Ingestion

Ingestion can cause irritation of the mouth, throat, and esophagus. Vomiting may occur. Aspiration into lungs can produce severe lung damage and is a medical emergency.

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

Wash affected area immediately with large amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation First Aid

Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen

Ingestion First Aid

Aspiration hazard. Do not induce vomiting, keep head below hips to prevent aspiration into lungs. Call a physician.

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.

SECTION 5 – FIRE FIGHTING MEASURES

Flammable Properties

General Flammability: Flammable.

PMCC Flash Point: 20°C (for 100% acetone)

Autoignition Temperature: 465°C (for 100% acetone)

Flammable Limits in Air

LEL: 2.5% (for 100% acetone)

UEL: 12.8% (for 100% acetone)

Hazardous Combustion Products

None

Extinguishing Media

Use extinguishing media appropriate to surrounding environment.

Fire Fighting Instruction

Poisonous gases are produced in fire. Use dry chemical, carbon dioxide, or appropriate foam. Water may be ineffective because it will not cool material below its flash point. Wear full protective clothing and breathing apparatus with full facepiece.

Fire & Explosion Hazards

Vapours may produce flash fires. Vapours can flow along surfaces to distant ignition source and flash back. Explosion hazard when exposed to heat, flames or oxidizers.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Initial Containment

Contain spilled liquid with an inert absorbent material and place in a chemical waste container for proper disposal in an approved waste disposal facility.

Small Spills Procedure

Wipe away excess with an inert absorbent material. Ventilate area of spill. Have extinguishing agent available in case of fire. Use non-sparking tools and equipment.

Evacuation Procedures

Use standard practices.

SECTION 7 – HANDLING AND STORAGE

Handling (Personnel)

Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Avoid prolonged inhalation and contact with skin or eyes. Wash hands thoroughly after handling.

Storage

Keep container tightly closed when not in use and store in a secure, flammable storage area at 20°C, away from all sources of ignition. Do not expose to temperatures >50°C.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

A good system of local or general ventilation should be in place to ensure exposure is below airborne exposure limits. Facilities storing or utilizing this material should be equipped suitable flammable storage areas as well as an eyewash facility and a safety shower.

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: Wear face mask to minimize inhalation of vapours.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Properties

Appearance: Clear liquid.

Physical State: Liquid.

Odor: Characteristic acetone odor.

pH: 5-9

Vapor Pressure: 180 at 20°C (As per Acetone).

Specific Gravity: ~ 0.8 (Acetone).

Boiling Point: ~ 56°C (Acetone).

Melting Point: ~ -94°C (Acetone).

Water Solubility: Miscible.

MSDS Number: LUMS004

MSDS Version: 2.0

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Date Printed: 06/30/10

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability

Stable when stored under proper conditions. Avoid high temperatures, ignition sources, and confined spaces.

Polymerization

Hazardous polymerization will not occur.

Incompatibility with Other Materials

Strong oxidizers or reducers, strong bases, strong acids, hydrogen peroxide and chloroform.

Hazardous Decomposition

Carbon dioxide, carbon monoxide, formaldehyde, and methanol may form when heated to decomposition.

SECTION 11 – TOXICOLOGICAL INFORMATION

LD50: 5800 mg/kg (Oral, Rat)

LC50: 50100 mg/m³/8h (Inhalation, Rat)

Mutation Data: None available.

SECTION 12 – ECOLOGICAL INFORMATION

Acetone has slight acute and chronic toxicity to aquatic life.

Product Ecological Information: Rainbow trout: 5540mg/L, 96-hour.

SECTION 13 – DISPOSAL CONSIDERATIONS

Recommended Technique(s) For Disposal

Follow guidelines posted in laboratory for disposing of solvents. Always dispose of in accordance with local, state and federal regulations.

Empty Containers

Rinse three times with water and dispose as normal trash.

SECTION 14 – TRANSPORT INFORMATION

Product Label

LumiClean

Regulatory Information (DOT, TDG, IATA, IMDG/IMO):

Shipping Name: Acetone Solution

D.O.T. Hazard Class: 3

U.N. Number: UN1090

Packing Group: II

D.O.T. Label: 3

Not regulated in package sizes less than 1 liter.

SECTION 15 – REGULATORY INFORMATION

SARA 311 Categories:

Immediate (Acute) Health Effects: Yes

Delayed (Chronic) Health Effects: No

Fire Hazard: Yes

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

Class B-2 – Flammable Liquid

Class D-2(B) - Materials Causing Other Toxic Effects

CERCLA Hazardous Substances

Acetone (67-64-1) - RQ 5000 lb

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: 1
Flammability: 3
Reactivity: 0

NFPA Rating:

Health: 1
Flammability: 3
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.*