

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT & COMPANY INFORMATION

Product Name: LumiClean

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

Intended Use: ATP Extraction Agent

Date of MSDS Preparation: January 17, 2007

Emergency Telephone Number: +1-506-459-8777

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Component Name: Water

CAS Number: 7732-18-5

Percent Range (Units): 7 – 13 % (w/w)

LD50: N/A

LC50: N/A

Component Name: Acetone

CAS Number: 67-64-1

Percent Range (Units): 60 – 100 % (w/w)

LD50: 5800 mg/kg (Oral, Rat)

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

SECTION 3 – HAZARDS IDENTIFICATION

Flash Point: -20°C (for pure Acetone)

Eye Contact: Liquid and vapor may cause irritation. May cause burning sensation, redness, tearing, inflammation.

Skin Contact: Repeated exposure may cause skin dryness and irritation.

Inhalation: May cause respiratory tract irritation, nausea, dizziness, and headache.

Ingestion: May cause digestive distress, including nausea, aspiration. May also cause headache and dizziness.

Extremely flammable liquid and vapor. Vapor may cause flash fire.

SECTION 4 – FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for 15 minutes. Get medical aid.

Skin Contact: Flush skin with plenty of water, remove contaminated clothing and shoes.

Inhalation: Remove to fresh air. If breathing is difficult obtain oxygen and seek medical aid. If not breathing give artificial respiration.

Ingestion: Do not induce vomiting. Consume water; do not give anything by mouth to an unconscious person. Call physician immediately.

SECTION 5 – FIRE FIGHTING MEASURES

General Flammability: Flammable.

Fire Fighting Instruction: Use dry chemical, carbon dioxide, or appropriate foam. Water may be ineffective because it will not cool material below its flash point.

Flash Point: -20°C (for 100% acetone)

Auto-Ignition Temperature: 465°C (for 100% acetone)

Lower Explosion Limit: 2.5% (for 100% acetone)

Upper Explosion Limit: 12.8% (for 100% acetone)

Hazardous Combustion Products: none

NFPA Rating: Health: 1; Flammability: 3; Instability: 0

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Containment Technique: Absorb spilled liquid with a non-reactive sorbent material

Clean-Up Technique: Wipe away excess with a non-reactive sorbent material. Wash contaminated area with soap.

Evacuation Procedures: Use standard practices.

SECTION 7 – HANDLING AND STORAGE

Handling Precautions: Avoid contact with eyes. Wash hands after use.

Storage: Keep container tightly closed when not in use and away from any possible ignition sources. Preferred storage is in a flammables storage area.

SECTION 8 – EXPOSURE CONTROLS

Precautions: Avoid contact with eyes.

Recommended Personal Protective Equipment:

Eye Protection: Safety glasses or chemical goggles.

Skin Protection: Gloves and lab coat.

Inhalation Protection: N/A

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless.

Physical State: Liquid.

Odor: Sweetish.

pH: 7

Vapor Pressure: 231mm Hg @ 25°C.

Specific Gravity: ~ 0.85.

Boiling Point: ~ 56°C.

Melting Point: ~ -94°C.

VOC Content: Unknown.

Water Solubility: Miscible.

SECTION 10 – STABILITY AND REACTIVITY

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

Reactivity / Incompatibility: Strong oxidizers or reducers, strong bases, strong acids.

Hazardous Conditions: High temperatures, ignition sources, confined spaces.

Hazardous Decomposition: Carbon monoxide.

SECTION 11 – TOXICOLOGICAL INFORMATION

LD50: See Section 2.

LC50: See Section 2.

Mutation Data: None available.

SECTION 12 – ECOLOGICAL INFORMATION

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.

Empty Containers: Rinse three times with water and dispose as normal trash.

SECTION 14 – TRANSPORT INFORMATION

None available.

SECTION 15 – REGULATORY INFORMATION

TSCA

- not on Health & Safety Reporting List
- not under Chemical Test Rule
- not listed under TSCA Section 12b
- does not have SNUR under TSCA

OSHA

- not considered hazardous
- WHMIS Classification B2, D2B (Acetone)

SECTION 16 – OTHER INFORMATION

None at this time.

*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.*