



MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT & COMPANY INFORMATION

Product Name: Luminase

Product Code: Lu-## (Where ## Represents Lot Number)

Intended Use: ATP Assay Enzyme Reagent

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): 60 – 100 % (w/w)

LD50: N/A

LC50: N/A

Component Name: Luciferase, from Firefly

CAS Number: 61970-00-1

Percent Range (Units): < 0.1 % (w/w)

LD50: Data not available.

LC50: Data not available.

Component Name: D-Luciferin

CAS Number: 2591-17-5

Percent Range (Units): < 0.1 % (w/w)

LD50: Data not available.

LC50: Data not available.

Component Name: Proprietary Components
CAS Number: N/A
Percent Range (Units): 7.0 – 13.0 % (w/w)
LD50: N/A
LC50: N/A

SECTION 3 – HAZARDS IDENTIFICATION

Eye Contact: Causes eye irritation.
Skin Contact: May cause slight skin irritation.
Inhalation: May cause slight difficulty breathing.
Ingestion: Slightly toxic. Causes digestive distress.

SECTION 4 – FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for 15 minutes.
Skin Contact: Immediately wash skin with soap and copious amounts of water.
Inhalation: If inhaled, remove to fresh air and if breathing becomes difficult, call a physician.
Ingestion: Do not induce vomiting. Consume water; do not give anything by mouth to an unconscious person. Call physician.

SECTION 5 – FIRE FIGHTING MEASURES

General Flammability: Not flammable.
Fire Fighting Instruction: Use extinguishing media appropriate to surrounding environment.

Flash Point: N/A
Auto-Ignition Temperature: N/A
Lower Flammability Limit: N/A
Upper Flammability Limit: N/A

Hazardous Combustion Products: N/A

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Containment Technique: Absorb spilled liquid with a non-reactive sorbent material
Clean-Up Technique: Dilute spill with water and wipe away excess with a non-reactive sorbent material. Wash contaminated area with soap.
Evacuation Procedures: N/A

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 store at 4°C.

SECTION 8 – EXPOSURE CONTROLS

Precautions: Avoid contact with skin and eyes.

Recommended Personal Protective Equipment:

Eye Protection: Safety glasses.

Skin Protection: Gloves and lab coat.

Inhalation Protection: N/A

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, slight green tinge.

Physical State: Liquid.

Odor: Slight sulfur odor.

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.

Reactivity / Incompatibility: N/A

Hazardous Conditions: None known.

Hazardous Decomposition: None known.

SECTION 11 – TOXICOLOGICAL INFORMATION

LD50: Data not available.

LC50: Data not available.

Mutation Data: Data not available.

SECTION 12 – ECOLOGICAL INFORMATION

Product Ecological Information: Data not available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Recommended Technique(s) For Disposal: Dilute with water. Dispose down drain.

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

SECTION 14 – TRANSPORT INFORMATION

None applicable at this time.

SECTION 15 – REGULATORY INFORMATION

This product is not currently regulated.

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.*