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Effective Date: 20-OCT-2014

Material Safety Data Sheet

• Section 1 – Product and Company Information

Product: **FIRST DEFENSE®**, Bovine Coronavirus-Escherichia Coli Antibody, Bovine Origin.
Manufacturer: ImmuCell Corporation
Address: 56 Evergreen Dr.
Portland, ME 04103
Phone: (207) 878-2770
Fax: (207) 878-2117

• Section 2 – Composition of Product

Substance Name: Bovine Coronavirus-Escherichia Coli Antibody
Active Ingredient: Bovine whey immunoglobulin.

• Section 3 – Hazardous Identification

Hazardous Ingredient: < 0.01% Thimerosal
Additional information on toxicity is available in Section 11

• Section 4 – First Aid Guidelines

Oral Exposure: If swallowed, rinse mouth with water. Call a physician.

Inhalation Exposure: If inhaled, evacuate to fresh air. If there is a breathing difficulty, call a physician.

Dermal Exposure: If contact occurs, immediately wash skin with soap and water.

Eye Exposure: If contact occurs, flush eyes with copious amounts of water for a minimum of 15 minutes. Separate eyelids to assure adequate flushing. Call a physician.

• Section 5 – Fire Fighting Measures

Autoignition Temp: N/A **Flammability:** N/A

Extinguishing Media Suitable:
Water, carbon dioxide, dry chemical powder, or appropriate foam.

Protective Equipment:
Self contained breathing apparatus and flame retardant clothing to prevent bodily harm.

Specific Hazards:
Emits toxic fumes when ignited.

• Section 6 – Accidental Release Measures

Personal Precautions:
Adorn a self-contained breathing apparatus, rubber gloves, and rubber boots.

Clean Up Procedures:
Sweep up while minimizing particles lifted into the air. Store remains for waste disposal. Properly ventilate the area, and wash all surfaces after material has been removed.

- **Section 7 – Storage and Handling**

Storage: Suitable

Store tightly closed in a cool, dry place.

Handling: User Exposure

Avoid prolonged exposure, contact with skin, eyes, or clothing, and inhalation.

- **Section 8 – Personal Protective Equipment**

Hand: Chemical – resistant gloves.

Eye: Chemical safety goggles.

- **Section 9 – Physical/ Chemical Properties**

<u>Property</u>	<u>Value</u>
pH	N/A
BP/BP Range	N/A
MP/MP Range	N/A
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
SG/Density	N/A
Bulk Density	N/A
Odor Threshold	N/A
Volatile %	N/A
VOC Content	N/A
Water content	≤ 7%
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point °F	N/A
Flash Point °C	N/A
Explosion Limits	N/A
Autoignition Temp	N/A
Solubility	N/A

- **Section 10 – Stability and Reactivity**

Stability: Stable

Materials to avoid: Strong oxidizing reagents

Hazardous decomposition products: None.

Hazardous polymerization: Will not occur.

- **Section 11 – Toxicological Information**

Form of Exposure

Skin contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation: May be irritating to mucous membranes and upper respiratory tract.

Signs/Symptoms of Exposure

To the best of our knowledge, the chemical, physical and toxicological properties of this product have not been thoroughly investigated.

- **Section 12 – Ecological Information**

- **Section 13 – Disposal Recommendations**

Proper Disposal: Discard with solid waste. Observe all Federal, State, and local environmental regulations.

- **Section 14 – Transport Guidelines**

- **Section 15 – Regulatory Guidelines**

- **Section 16 – Other information**