

# 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:  $\leq 0.01\%$  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	N/A
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**