

### • Section 1 – Identification

**Product Name:** Dual-Force™ First Defense®, Bovine Coronavirus-Escherichia Coli Antibody  
**Manufacturer:** ImmuCell Corporation  
**Address:** 56 Evergreen Drive  
 Portland, ME 04103  
**Phone:** (207) 878-2770  
**Fax:** (207) 878-2117  
**Issue Date:** 24 May 2019  
**Supersedes Date:** N/A  
**Product Use:** Colostrum-derived, one time preventative treatment for newborn calf scours

### • Section 2 –Hazard(s) Identification

**Hazardous Ingredient:** Thimerosal ( $\leq 0.01\%$ )

### • Section 3 – Composition / Information on Ingredients

<u>Ingredients</u>	<u>C.A.S. #</u>	<u>% by Wt</u>
Soybean Oil	68122-64-2	Proprietary
Dried Whey Protein Concentrate	91082-88-1	Proprietary
Powdered Sugar	57-50-1	Proprietary
Lecithin	8002-43-5	Proprietary
NutriLinx Flavor	N/A	Proprietary
Dextrose	50-99-7	Proprietary
Silicon Dioxide	7631-86-9	Proprietary
FD&C Blue #1 Aluminum Lake	68921-42-6	Proprietary
Bovine Coronavirus-E. coli Antibody	N/A	Proprietary
Butylated hydroxyanisole (BHA)	25013-16-5	0.01%
Butylated hydroxytoluene (BHT)	128-37-0	0.01%

### • Section 4 – First Aid Measures

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

**Inhalation Exposure:** Low hazard. Massive dose may cause irritation.

**Dermal Exposure:** May cause skin irritation with prolonged contact.

**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:** N/A

**Protective Equipment:** N/A

**Unusual Fire and Explosion Hazards:** None; noncombustible liquid.

### • Section 6 – Accidental Release Measures

**Personal Precautions:** In the event of an accidental spill, wear safety goggles.

**Clean Up Procedures:** Contain spill and absorb with inert material/paper towels, etc. and dispose of in accordance with local, state, and federal regulations.

### • Section 7 – Handling and Storage

**Storage:** Product must be stored at 2-8°C (36-46°F).

**Handling:** Handle with care so that syringe cap is not disturbed and product potentially contaminated.

### • Section 8 – Exposure Controls / Personal Protection

**Hand:** N/A

**Eye:** Chemical safety goggles.

### • Section 9 – Physical and Chemical Properties

**Physical/Chemical State:** Dispersion

**Odor:** Citrus

**Appearance:** Dark blue gel

<u>Property</u>	<u>Value</u>
pH	N/A
BP/BP Range (°F)	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	~1.0
Bulk Density	N/A
Odor Threshold	N/A
Volatile %	N/A
VOC Content	N/A

### • Section 9 – Physical/ Chemical Properties (continued)

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	Slightly soluble in water

### • Section 10 – Stability and Reactivity

**Stability:** Stable

**Materials or Conditions to avoid:** Strong oxidizers and temperatures above 8°C or 46°F.

**Hazardous decomposition products:** N/A

**Hazardous polymerization:** N/A

### • Section 11 – Toxicological Information

#### Form of Exposure

**Skin contact:** No health effects are expected.

**Eye Contact:** May cause eye irritation. See First Aid Guidelines for more information.

**Inhalation:** Low hazard. Massive dose may cause irritation.

**Signs/Symptoms of Exposure:** No health effects are expected.

### • Section 12 – Ecological Information

**Ecotoxicological Information:** Not determined.

**Chemical Fate Information:** Not determined.

### • Section 13 – Disposal Considerations

**Proper Disposal:** \*Wrap in several layers of newspaper and dispose of in accordance of local, state and federal regulations.

\*Note: Since local regulation vary, consult applicable regulations before disposal.

### • Section 14 – Transport Information

DOT Classification: N/A

Special Provisions for Transport: Product must stay cool until use and shall be transported on ice.

<ul style="list-style-type: none"><li>• <b>Section 15 – Regulatory Information</b></li></ul>
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Contact ImmuCell for more information.

<ul style="list-style-type: none"><li>• <b>Section 16 – Other information</b></li></ul>
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Contact ImmuCell for more information.