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# Biocell Liquid

# Material Safety Data Sheet

Preparation Date 02-Oct-2007  
Revision Number: 0  
Revision Date

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Description: Biocell Liquid  
Item#: 6107  
Recommended use Wet udder towel solution

Supplier DeLaval Manufacturing  
11100 N. Congress Ave.  
Kansas City, MO 64153  
Tel: 816-891-7700, 8am – 5pm M-F

Emergency Telephone Number Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**Emergency Overview**  
Flammable Liquid

### Potential Health Effects

Principle Routes of Exposure Eye contact  
Ingestion

Major effects of exposure  
Eyes Contact with eyes may cause irritation.  
Ingestion May be harmful if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %	OSHA PEL
Isopropyl alcohol	67-63-0	1 - 5	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 1225 mg/m <sup>3</sup> STEL: 500 ppm
Ethyl alcohol	64-17-5	1 - 5	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

#### 4. FIRST AID MEASURES

<b>Eye contact</b>	<ul style="list-style-type: none"> <li>• Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes</li> <li>• Call a physician immediately</li> </ul>
<b>Skin contact</b>	<ul style="list-style-type: none"> <li>• Wash off immediately with plenty of water</li> <li>• If skin irritation persists, call a physician</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>• Do not induce vomiting</li> <li>• Call a physician or Poison Control Centre immediately</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>• Move to fresh air</li> <li>• If symptoms persist, call a physician</li> </ul>

#### 5. FIRE-FIGHTING MEASURES

<b>Fire Hazard</b>	Flammable liquid.
<b>Suitable Extinguishing Media</b>	Water, Carbon dioxide (CO <sub>2</sub> ), Foam
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

Health	Flammability	Instability
1	2	0

**NFPA Special Hazard**                      none

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Remove all sources of ignition. Ensure adequate ventilation.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material. Take precautionary measures against static discharges.

#### 7. HANDLING AND STORAGE

<b>Handling</b>	Ensure adequate ventilation.
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	ACGIH TLV	OSHA PEL

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 1225 mg/m <sup>3</sup> STEL: 500 ppm
Ethyl alcohol	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

**Engineering Controls**                      Ensure adequate ventilation, especially in confined areas.

**Eye/face Protection**                      Safety glasses with side-shields

#### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, Colorless
Form	liquid
Specific Gravity	1.0
Density (lb/gal)	8.4
Water Solubility	soluble
pH	4 - 6
Flash Point	49°C / 120°F

### 10. STABILITY AND REACTIVITY

**Chemical Stability**                              Stable under normal conditions.

**Conditions to Avoid**                              Heat, flames and sparks.

**Incompatible Materials**                              No materials to be especially mentioned

### 11. TOXICOLOGICAL INFORMATION

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl alcohol	4396 mg/kg ( Rat )	12800 mg/kg ( Rabbit ) 12800 mg/kg ( Rat )	72.6 mg/L ( Rat )
Ethyl alcohol	1501 mg/kg ( rat )		124.7 mg/L ( rat )



**Chronic Toxicity**

**Carcinogenicity** Contains no ingredient listed as a carcinogen

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Isopropyl alcohol	EC50 > 1000 mg/L 72 h EC50 > 1000 mg/L 96 h		EC50 = 35390 mg/L 5 min	EC50 = 13299 mg/L 48 h
Ethyl alcohol			EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	EC50 = 10800 mg/L 24 h EC50 = 9268 mg/L 48 h

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method** Dispose of in accordance with local regulations.

**Contaminated Packaging** Empty containers should be taken for local recycling, recovery or waste disposal.

**14. TRANSPORT INFORMATION**

**UN-No** 1993  
**Proper Shipping Name** Flammable liquid, N.O.S. (Ethyl Alcohol, Isopropyl Alcohol)  
**Hazard Class** 3  
**Packing Group** III

**15. REGULATORY INFORMATION**

Component	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Isopropyl alcohol	Present	X	-	200-661-7	-	X	X	KE-29363	X	X
Ethyl alcohol	Present	X	-	200-578-6	-	X	X	KE-13217	X	X

**USA**

**Federal Regulations**

**TSCA** Complies

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Component	CAS-No	Category	Type
Ethyl alcohol	64-17-5	Developmental	

**State Right-to-Know**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Isopropyl alcohol	X	X	X		X
Ethyl alcohol	X	X	X		X

<b>16. OTHER INFORMATION</b>
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Preparation Date                      02-Oct-2007

Revision Date

Reason for revision                      No information available

**Disclaimer**

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