

# MATERIAL SAFETY DATA SHEET

**PRODUCT** *BD E-Z Care™ 70% Ethyl Alcohol*  
**NAME:** *Catalog No. 372403 (Brushless Antiseptic),  
372408, and 382409 (Rinseless, Brushless  
Antiseptic)*  
**Date:** *03/23/06*      **Revision #:** *3*



## PRODUCT AND COMPANY INFORMATION – SECTION 1

**Manufacturer/Distributor:** *Becton Dickinson Medical Systems  
9450 South State Street  
Sandy, UT 84070  
801-565-2300      Toll Free: 800-453-4538*

**FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE,  
OR ACCIDENT:**

*In the continental U.S., call: 888.237.2762 (24 hour)  
For additional information, call: 801.565.2300*

**Product Name:** *BD E-Z Care™ 70% Ethyl Alcohol Catalog Numbers 372403 (Brushless Antiseptic), 372408, and 372409 (Rinseless, Brushless Antiseptic)*

**Synonyms:** *None*

**DOT Identification Number:** *UN 1170*

## COMPOSITION INFORMATION – SECTION 2

| <u>Chemical Name</u>               | <u>Percent</u> | <u>CAS Number</u> | <u>Exposure Limits</u>                    |
|------------------------------------|----------------|-------------------|---|
| Ethanol, denatured                 | 70             | 64-17-5           | OSHA PEL: 1000 PPM<br>ACGIH TLV: 1000 PPM |
| Non-hazardous<br>propriety mixture | 30             | N/A               | N/A                                       |

### OSHA REGULATORY STATUS

|   |  |
|---|--|
|   | This material is classified as not hazardous under OSHA regulations.   |
|   | While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of the product. |
| X | This material is classified as hazardous under OSHA regulations.   |

## HAZARDS IDENTIFICATION – SECTION 3

### EMERGENCY OVERVIEW

- Caution! Flammable liquid.
- Overexposure may cause skin and eye irritation.
- Keep away from eyes and mouth
- Avoid breathing vapors
- Clear gray to milky white liquid.

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## HAZARDS IDENTIFICATION – SECTION 3 - Continued

### PRIMARY ROUTES OF EXPOSURE:

Inhalation

### POTENTIAL HEALTH EFFECTS:

#### Eyes:

May cause irritation, permanent eye damage, and/or blindness.

#### Skin:

May cause irritation, dryness, and defatting.

#### Inhalation:

May cause headache and/or drowsiness, as well as irritation of throat.

May cause nausea, vomiting, and/or CNS depression.

#### Ingestion:

May cause nausea, vomiting, and/or CNS depression.

### CHRONIC HEALTH EFFECTS:

#### Eyes:

May cause permanent eye damage and/or blindness.

#### Skin:

May cause irritation, dryness, and defatting.

#### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

#### Ingestion:

Long term repeated oral exposure may result in progressive liver injury with fibrosis.

## FIRST AID MEASURES – SECTION 4

**SEEK MEDICAL ATTENTION FOR ALL CASES OF OVEREXPOSURE.**

## FIRST AID MEASURES – SECTION 4 - Continued

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## **FIRST AID MEASURES:**

### **Eyes:**

Hold eyelids open and flush eyes with copious amounts of water for 15 minutes.

### **Skin:**

Wash thoroughly with plenty of soap and water.

### **Inhalation:**

Remove victim to fresh air. Give artificial respiration if needed.

### **Ingestion:**

Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Do not give anything by mouth to an unconscious person. Get medical attention.

## **FIRE FIGHTING MEASURES – SECTION 5**

| <b>NFPA Classification</b> |      |            |       |
|----------------------------|------|------------|-------|
| Health                     | Fire | Reactivity | Other |
| 1                          | 3    | 0          | N/A   |

## **Flammability Properties:**

**Flash Point:** 22°C ± 2°C      **Method:** Penske-Martin Closed Cup

**Flammability Limits:** (in air % by volume)      **LEL:** 3.3 (Ethanol)      **UEL:** 19.0 (Ethanol)

## **Autoignition Temperature:**

U/K

## **Hazardous Combustion Products:**

Carbon Monoxide and/or Carbon Dioxide may be formed.

## **Extinguishing Media:**

Dry Chemical and carbon dioxide. Cool fire-exposed containers with water spray.

## **Firefighting Instructions:**

As in any fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive-pressure mode.

## **Unusual Fire and Explosion Hazards:**

Ethanol burns with an invisible flame in the daylight. Vapors are heavier than air and can travel a considerable distance to a source of ignition and flash back. Containers may rupture due to vapor pressure buildup.

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## ACCIDENTAL RELEASE MEASURES - SECTION 6

### Large Spill:

Wear protective equipment. Eliminate all sources of ignition. Ventilate area. Recover material if possible. Absorb spill with non-flammable absorbent, such as sand or vermiculite. Ground all handling equipment and use non-sparking tools for clean up. Prevent liquid from entering sewers or waterways.

## HANDLING & STORAGE - SECTION 7

### Handling:

Keep away from eyes, skin, and clothing. Wash thoroughly after use. Avoid ingestion. Avoid breathing vapors.

### Storage:

Keep away from heat, sparks, and flames. Store in a cool, dry, well-ventilated area away from incompatible materials. Temperature not to exceed 104 °F.

## EXPOSURE CONTROLS / PERSONAL PROTECTION - SECTION 8

### ENGINEERING CONTROLS:

General and/or local exhaust to maintain exposure below TLV.

### PERSONAL PROTECTIVE EQUIPMENT:

#### Eye/Face Protection:

Chemical goggles or full-face shield when splashing is possible.

#### Skin Protection:

Chemical-resistant gloves and clothing are recommended for spill cleanup.

#### Respiratory Protection:

Not required for normal use. Wear NIOSH approved respirator with organic filter if TLV is exceeded.

#### General Hygiene Considerations:

Wash thoroughly after handling.

#### Other Protective Equipment:

Eye Wash, Safety Shower, and Washing Facilities.

## EXPOSURE CONTROLS / PERSONAL PROTECTION - SECTION 8 - Cont.



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## ECOLOGICAL INFORMATION – SECTION 12

No significant data is available for this material.

## DISPOSAL CONSIDERATION – SECTION 13

Dispose of liquid or contaminated absorbent in DOT – approved waste containers, and in accordance with all Federal, state and local regulations.

## TRANSPORT INFORMATION - SECTION 14

### Catalog numbers 372403 and 372408

#### **DOT Shipping Information according to 49 CFR for domestic ground and domestic air shipments**

|                         |   |
|-------------------------|---|
| Basic Description       | <i>Domestic Ground and Domestic Air:</i> Ethyl alcohol solution, 3, UN1170, II, Ltd. Qty.   |
| Labeling Requirements   | <i>Domestic Ground:</i> Labels are not required for ground shipments.<br><br><i>Domestic Air:</i> Flammable Liquid, Class 3 label.  |
| Marking Requirements    | <i>Domestic Ground:</i><br>Ethyl alcohol solution, Ltd. Qty.<br>Orientation arrows and ID numbers are not required.<br><br><i>Domestic Air:</i><br>Ethyl alcohol solution, Ltd. Qty.<br>ID numbers are not required.<br>Orientation arrows are required to be marked on two opposite vertical sides of the package with the arrows pointing in the correct upright direction. |
| Placarding Requirements | <i>Domestic Ground and Domestic Air:</i> These products are not subject to placarding requirements.   |
| Packaging Requirements  | <i>Domestic Ground and Domestic Air:</i> These products are not subject to specification packaging requirements. The gross weight of each package may not exceed 30 kg (66 pounds).   |
| Additional Requirements | <i>Domestic Ground and Domestic Air:</i> Emergency response information such as an emergency response guide or MSDS must be included.   |

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## TRANSPORT INFORMATION – SECTION 14 - Continued

Refer to 49 CFR for complete marking, labeling, and packaging information.

### ***IATA Shipping Information according to Dangerous Goods Regulations for air shipments***

|                        |  |
|------------------------|--|
| Basic Description      | Ethyl alcohol solution, 3, UN1170, II  |
| Labeling Requirements  | Class 3, Flammable Liquid label<br>Cargo Aircraft Only label                             |
| Marking Requirements   | Ethyl alcohol solution, UN1170<br>Orientation arrows are required on two opposite sides. |
| Packaging Requirements | Specification packaging is required (Packing Instruction 307).                           |

Refer to the IATA Dangerous Goods Code for complete marking, labeling, and packaging information.

### ***IMDG Shipping Information according to the IMDG Code for water shipments***

|                        |   |
|------------------------|---|
| Basic Description      | There are two suitable descriptions:<br>1. Ethyl alcohol solution, 3, UN1170, II, Ltd. Qty.<br>OR<br>2. Dangerous Goods in Limited Quantities of Class 3, UN1170, II  |
| Labeling Requirements  | Labels are not required.  |
| Marking Requirements   | Packages must be marked in either of two ways:<br>1. Ethyl alcohol solution, UN1170 OR<br>2. Dangerous Goods in Limited Quantities of Class 3, UN 1170, II<br>Cargo transport units should be marked "LIMITED QUANTITIES" |
| Packaging Requirements | The gross weight of each package may not exceed 30 kg (66 pounds).  |

Refer to the IMDG Code for complete marking, labeling, and packaging information.

### **Catalog Number 372409**

### ***DOT Shipping Information according to 49 CFR for domestic ground and domestic air shipments***

|                   |  |
|-------------------|--|
| Basic Description | <i>Domestic Ground and Domestic Air:</i> Ethyl alcohol solution, 3, UN1170, II ltd. Qty. |
|-------------------|--|

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## TRANSPORT INFORMATION - SECTION 14 - Continued

|  |   |
|--|---|
| Labeling Requirements  | <i>Domestic Ground:</i> Labels are not required for ground shipments.<br><i>Domestic Air:</i> Flammable Liquid, Class 3 label.  |
| Marking Requirements   | <i>Domestic Ground:</i><br>Ethyl alcohol solution, Ltd. Qty<br>Orientation arrows and ID numbers are not required<br><i>Domestic Air:</i><br>Ethyl alcohol solution, Ltd. Qty<br>ID numbers are not required<br>Orientation arrows are required to be marked on two opposite vertical sides of the package with the arrows pointing in the correct upright direction. |
| Placarding Requirements  | <i>Domestic Ground and Domestic Air:</i> These products are not subject to placarding requirements.   |
| Packaging Requirements   | <i>Domestic Ground and Domestic Air:</i> These products are not subject to specification packaging requirements. The gross weight of each package may not exceed 30 kg (66 pounds).   |
| Additional Requirements  | <i>Domestic Ground and Domestic Air:</i> Emergency response information such as an emergency response guide or MSDS must be included.   |
| Refer to 49 CFR for complete marking, labeling, and packaging information. |   |

### ***IATA Shipping Information according to Dangerous Goods Regulations for air shipments***

|   |  |
|---|--|
| Basic Description   | Ethyl alcohol solution, 3, UN1170, II                                  |
| Labeling Requirements   | Class 3, Flammable Liquid label  |
| Marking Requirements  | Ethyl alcohol solution, UN1170<br>Orientation arrows are not required. |
| Packaging Requirements  | Specification packaging is required (Packing Instruction 305).         |
| Refer to the IATA Dangerous Goods code for complete marking, labeling, and packaging information. |  |

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## TRANSPORT INFORMATION – SECTION 14 - Continued

### **IMDG Shipping Information according to the IMDG Code for water shipments**

|   |   |
|---|---|
| Basic Description   | There are two suitable descriptions:<br>1. Ethyl alcohol solution, 3, UN1170, II, Ltd. Qty.<br>OR<br>2. Dangerous Goods in Limited Quantities of Class 3, UN1170, II  |
| Labeling Requirements   | Labels are not required.  |
| Marking Requirements  | Packages must be marked in either of two ways:<br>1. Ethyl alcohol solution, UN1170 OR<br>2. Dangerous Goods in Limited Quantities of Class 3, UN 1170, II<br>Cargo transport units should be marked "LIMITED QUANTITIES" |
| Packaging Requirements  | The gross weight of each package may not exceed 30 kg (66 pounds).  |
| Refer to the IMDG Code for complete marking, labeling, and packaging information. |   |

## REGULATORY INFORMATION – SECTION 15

### US REGULATIONS (Ethanol)

CAA Section 112 .....Not Listed  
CERCLA .....Not Listed  
IARC .....Substances Not Assigned an Overall Evaluation  
NTP .....Testing Program Substance  
OSHA .....Air Contaminants (Table Z-1)  
SARA TITLE III .....Not Listed  
TSCA .....Listed

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## REGULATORY INFORMATION – SECTION 15 - Continued

### STATE REGULATIONS (Ethanol)

**MA Substance List** .....Teratogen with sufficient evidence of  
risk in humans  
**NJ RTK Hazardous Substance List** .....Listed  
**PA Hazardous Substance List** .....Listed  
**Canadian WHMIS** .....Ingredient must be disclosed at  
concentration of 0.1%  
**Minnesota Hazardous Substances List** .Listed

## OTHER INFORMATION - SECTION 16

| Revision Number | Revision Date |
|-----------------|---------------|
| 3               | 03/23/06      |

To the best of our knowledge, the information contained herein is accurate. However, neither Becton Dickinson nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The possibility exists that the EU will not recognize this MSDS due to the fact that several components of the MSDS are reflective of ANSI Z-400.1-1998. Although ILO (International Labor Organization) has adopted ANSI Z-400.1-1998, ultimate disposition lies with the competent authority.