MATERIAL SAFETY DATA SHEET

PRODUCT NAME: *E-Z SCRUB™ Scrub 107 4% CHG*
Catalog Nos. 371073
Date: *05/07/02* ***Revision #:*** *New*

PRODUCT AND COMPANY INFORMATION – SECTION 1

Company Identification

Name: *Becton Dickinson Medical Systems*
Address: *9450 South State Street*
Sandy, UT 84070

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

In the continental U.S., call: 801.565.2300 (24 hour)
For additional information, call: 888.237.2762
(M-F, 8:00 AM-4:30 PM EST)

COMPOSITION INFORMATION – SECTION 2

Product Name: BD E-Z Scrub with Chlorhexidine Gluconate as Surgical Hand Scrub
Chemical Formula: Proprietary Mixture

Chemical Name	Percent Wt.	CAS Number	RTECS Number
Chlorhexidine Gluconate	4.0	18472-51-0	DU1950000

This is a water-based solution of surfactants and Chlorhexidine Gluconate.

OSHA REGULATORY STATUS	
	This material is classified as not hazardous under OSHA regulations.
X	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.
	This material is classified as hazardous under OSHA regulations.

HAZARDS IDENTIFICATION – SECTION 3

EMERGENCY OVERVIEW	▪ Clear, pink/red liquid with perfumed odor. ▪ Presents little or no hazard if spilled. ▪ Presents little or no fire hazard. ▪ For external use only: keep out of eyes, ears, and mouth.

POTENTIAL HEALTH EFFECTS

Eyes: May cause permanent damage.
Ears: May cause permanent hearing loss.

HAZARDS IDENTIFICATION – SECTION 3 (Continued)

Skin: May cause irritation in hypersensitive individuals. Avoid contact with meninges.

Inhalation: Overexposure may cause headache, fatigue, dizziness, loss of coordination, and unconsciousness. Vapor has anesthetic properties.

Ingestion: Harmful if swallowed.

FIRST AID MEASURES – SECTION 4

Seek medical attention for all cases of overexposure.

FIRST AID MEASURES

Eyes: Flush thoroughly with water for at least 15 minutes. Seek medical attention.

Ears: Flush with water, repeating several times. Seek medical attention.

Skin: Flush with water. Seek medical attention.

Ingestion: Wash out mouth with water. Treat with gastric lavage using milk, egg white, or mild soap. Seek medical attention.

Inhalation: Remove patient from exposure. Keep warm and at rest. Seek medical attention if ill effects occur.

FIRE FIGHTING MEASURES – SECTION 5

NFPA Rating		
Health	Fire	Reactivity
1	0	0

Flammability Properties

Flash Point / Method:	N/A			
Flammability Limits: (in air % by volume)	**LEL:**	N/A	**UEL:**	N/A
Autoignition Temperature:	U/K			
Hazardous Combustion Products:	Carbon dioxide, carbon monoxide, hydrogen chloride gas, nitrogen oxides, ammonia.			
Extinguishing Media:	Water, foam, dry chemical, carbon dioxide.			
Fire Fighting 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:	Emits toxic fumes under fire conditions.			

ACCIDENTAL RELEASE MEASURES - SECTION 6

Absorb spilled material with suitable absorbent. Transfer to container for disposal in accordance with regulatory requirements. Mop area clean.

HANDLING & STORAGE – SECTION 7

Handling: External use only. Avoid contact with eyes, ears, and mouth.

Storage: Store at room temperature. Protect from light. Avoid excessive heat (104°F).

EXPOSURE CONTROLS / PERSONAL PROTECTION – SECTION 8

Engineering Controls: General ventilation for conditions of prescribed use.

Personal Protective Equipment

Eye/Face Protection: Not required for normal use. Wear safety goggles or a full face shield for spill cleanup or if splashing is possible.

Skin Protection: Not required for normal use. Wear impervious gloves and apron for spill cleanup.

Respiratory Protection: Not required for normal use. Use NIOSH approved respirator for organic vapors, if necessary.

Exposure Guidelines

OSHA PEL:	N/A	**ACGIH TLV:**	N/A

PHYSICAL & CHEMICAL PROPERTIES – SECTION 9

Appearance, Physical State:	Clear, pink / red liquid
Odor:	Perfumed
Molecular Weight:	N/A
pH:	6-7.5
Boiling Point:	Similar to water
Melting Point:	Similar to water
Vapor Pressure (mm Hg):	Similar to water
Vapor Density (Air=1):	Similar to water
Solubility in Water:	Soluble
Specific Gravity:	1.06
Viscosity @ 25°C:	50-500 CPS

STABILITY & REACTIVITY – SECTION 10

Stability:	Stable under normal conditions
Conditions to Avoid:	High heat
Materials to Avoid:	Strong oxidizing agents, anionic compounds
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia, hydrogen chloride gas
Hazardous Polymerization:	Will not occur

TOXICOLOGICAL INFORMATION – SECTION 11

Chlorhexidine gluconate: oral LD50 = 1260 mg/kg (mouse) - 2 g/kg (rat)

No significant human data is available for this material.

ECOLOGICAL INFORMATION – SECTION 12

Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Low toxicity to sewage microorganisms.

DISPOSAL CONSIDERATION – SECTION 13

Dispose of in accordance with Federal, state and local regulations. Discarded product is not a hazardous waste under RCRA, 40 CFR 261. Empty container retains product residue. Observe all hazard precautions.

TRANSPORT INFORMATION - SECTION 14

DOT CLASSIFICATION: Combustible liquid (not regulated in non-bulk packaging)
IATA CLASSIFICATION: Not Regulated
IMDG CLASSIFICATION: Not Regulated

REGULATORY INFORMATION – SECTION 15

US REGULATIONS

OSHA	Not Regulated
TSCA	All ingredients are on the TSCA Chemical Substances Inventory (8(b)).
CERCLA	Not Regulated
SARA Title III	Not Regulated

STATE REGULATIONS

MA Substance List	Not Regulated
NJ Right-to-Know Hazardous Substance List	Not Regulated
PA Hazardous Substance List	Not Regulated
Canadian WHMIS	Not Regulated

OTHER INFORMATION - SECTION 16

Definitions:

U/K *= Unknown* ***N/A*** *= Not Applicable*

Revision Number	Revision Date
New	04/24/2002

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.

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New	04/24/2002