

<div style="text-align: center;"> <u>BECTON</u> DICKINSON Becton Dickinson and Company </div>		<div style="text-align: center;"> Material Safety Data Sheet Catalogue Number(s): 374000, 374018, 374034, 374081, 374082, 374091 </div>	
SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION			
Product Name: Bulk Antimicrobial Detergent ULTRADEX® PCMX/E-Z Scrub® Ultradex® Scrub Brush			
Synonyms:			
Chemical Family:			
Chemical Formula: Proprietary Mixture			
Manufacturer: Becton Dickinson and Company		Division: Becton Dickinson Division	
MSDS Number(s):		Address: 1 Becton Drive	
City: Franklin Lakes	State: New Jersey		Zip Code: 07417-1884
Emergency Phone: Day: 201-847-4267; After hours: 201-847-6431 Chemtrec: 800-424-9300			
Other Calls: 201-847-4000, 800-333-4813		MSDS Prepared By: Case Consulting Laboratories, Inc.	
Effective Date: February 20, 1997; Supersedes: February 10, 1992			
SECTION 2 - COMPOSITION INFORMATION INGREDIENTS			
Ingredient Name Common Name		CAS Number	Percent (wt) Wgt Vol Hazardous
Bulk Antimicrobial Detergent ULTRADEX® PCMX:			
Anionic Surfactant			
Emollients			
Chloroxylylene			
E-Z Scrub® Ultradex® Scrub Brush: There are no hazardous components above 1%		3.0	
		Not Established	Unknown
OSHA PEL Exposure Limits: Solution and Scrub Brush - N/A ACGIH TLV Exposure Limits: Solution and Scrub Brush - N/A			
SECTION 3 - HAZARDS IDENTIFICATION			
Emergency Overview: Scrub Brush - Molten material may produce thermal burns. Powdered material may form explosive dust-air mixture. Solution - N/A			
Relevant Route(s) of Exposure: Bulk Solution: EYES: No specific hazard known. However, any material that contacts the eye may be irritating or may cause mechanical injury. SKIN: Molten material will produce thermal burns. INGESTION: Accepted to be a low ingestion hazard. INHALATION: Low hazard for usual industrial handling. Scrub Brush - N/A			
Chronic Effects: U/K			

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SECTION 3 - HAZARDS IDENTIFICATION (CONT.)

Potential Health Effects:

Eyes: Bulk Solution -Low potential for irritation

Skin: U/K

Ingestion: U/K

Inhalation: U/K

SARA Hazards: **U/K** **Acute:** **U/K** **Chronic:** **U/K** **Reactive:** **U/K** **Fire:** **U/K** **Pressure:** **U/K**

SECTION 4 - FIRST AID MEASURES

Eyes: Bulk Solution - Flush with water. Wash out immediately and seek medical attention if symptoms persist.

Skin: Scrub Brush - If burned by contact with molten material, cool as quickly as possible with water and seek medical attention for treatment of burn. Bulk Solution - Wash with water.

Ingestion: Scrub Brush - Material is not expected to be absorbed from the gastrointestinal tract so that induction of vomiting should not be necessary. Bulk Solution - Wash out mouth with water. Seek medical attention.

Inhalation: Scrub Brush - Remove to fresh air and seek medical attention if symptoms persist. (If scrub brush is burning)

Antidotes:

Notes to Physicians: Scrub Brush - Burns should be treated as thermal burns. The plastic will come off as healing occurs; therefore, immediate removal from the skin is not necessary. (If scrub brush is burning)

SECTION 5 - FIRE FIGHTING PROCEDURES

NFPA Codes: **Health:** U/K

Flammability: U/K

Reactivity: U/K

Other: U/K

Flammable Limits in Air: **Upper Limit:** Scrub Brush and Bulk Solution - N/A

Lower **Limit:** Scrub Brush and Bulk Solution- N/A

Flash Point Value: Bulk Solution -None at or below 212°F. Scrub **Method Used:** Bulk Solution -Closed-Cup
Brush - Non-volatile, combustible

Auto-Ignition Value: Bulk Solution -None. Scrub Brush - Not Available.

Extinguishing Media: Bulk Solution - Use medium proper to the primary cause of fire. Scrub Brush - Water spray or dry chemical.

Fire Fighting Instructions: Bulk Solution - None. Scrub Brush - Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards: Bulk Solution - None. Scrub Brush - Powdered material may form explosive dust-air mixture. Minimize dust generation and accumulation.

Flammability Classification: N/A

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SECTION 5 - FIRE FIGHTING PROCEDURES (CONT.)

Propagation or Burning Rate of Solid Materials: U/K

Known or Anticipated Hazardous Products of Combustion: U/K

Properties of Both Flammable and Nonflammable Material that may Initiate or Uniquely Contribute to the Intensity of a Fire:
U/K

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Bulk Solution - Dike and absorb with industrial absorbent. Wash area with water to remove residue.
Scrub Brush - Sweep or scoop up and remove.

SECTION 7 - HANDLING AND STORAGE

Handling and Storage: Scrub Brush - Keep from contact with oxidizing materials. Bulk Solution - See product label

Precautionary Label Statements: Scrub Brush - N/A. Bulk Solution - Avoid direct contact with eyes.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Engineering Controls: N/A

Ventilation Needs: Bulk Antimicrobial Detergent ULTRADEX® PCMX - None. E-Z Scrub® Ultradex® Scrub Brush - general ventilation (typically 10 air changes per hour) should be sufficient to control airborne levels.

Personal Protective Equipment

Eye/Face Protection: Bulk Solution - None. Scrub Brush - Safety glasses with side shields (or goggles) are recommended for any type of industrial chemical handling.

Skin Protection: Bulk Solution - None. Scrub Brush - Wear gloves to protect against thermal burns. (If burning or hot)

Respiratory Protection: Bulk Solution - None. Scrub Brush - An approved respirator should be worn if needed.
Respirator type: dust and fume. (If burning)

Other Protective Clothing or Equipment: None

Exposure Guidelines: U/K

Work Hygienic Practices: N/A

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Bulk Solution - 212°F. Scrub Brush - N/A.

Melting Point: Bulk Solution and Scrub Brush - N/A.

Freezing Point: U/K

Physical State: Bulk Solution - Cream. Scrub Brush - Plastic and foam

Viscosity @ ??°C: U/K

Molecular Weight: U/K

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (CONT.)

pH: Bulk Solution - 5.0. Scrub Brush - N/ A.
Concentration:

Weight per Gallon: U/K

Evaporation Rate (=1): Bulk Solution - U/K

Vapor Pressure @ °C: U/K

Vapor Density (air=1): Bulk Solution - U/K

Specific Gravity: Bulk Solution - 1.07. Scrub Brush - 1.04

Percent Volatile by Volume: U/K

Theoretical VOC Content % by Wt.: U/K

Solubility in Water: Bulk Solution - Dispersible. Scrub Brush - Negligible.

Reactivity in Water: U/K

Appearance: Bulk Solution - Creamy white. Scrub Brush - Color varies with formulation - Sponge is yellow.

Odor: Bulk Solution - Light primrose. Scrub Brush - Light primrose.

SECTION 10 - STABILITY AND REACTIVITY

Stability: Bulk Solution - Stable. Scrub Brush - Stable.

Conditions to Avoid: N/A

SECTION 10 - STABILITY AND REACTIVITY (CONT.)

Incompatibility with Other Materials: Materials can react with oxidizers.

Hazardous Decomposition Products: Bulk Solution and Scrub Brush - None.

Hazardous Polymerization: Bulk Solution - None. Scrub Brush - Will not occur.

Conditions to Avoid (Polymerization): Bulk Solution and Scrub Brush - None.

SECTION 11 - TOXICOLOGICAL INFORMATION

<u>LD50Value</u>	<u>Unit</u>	<u>LD50 Animal</u>	<u>Routes</u>	<u>LD50 Component</u>
U/K	U/K	U/K	U/K	U/K
<u>LC50Value</u>	<u>Unit</u>	<u>LC50 Animal</u>	<u>Routes</u>	<u>LC50 Component</u>
U/K	U/K	U/K	U/K	U/K
Toxicological Information:		U/K		

SECTION 12 - ECOLOGICAL INFORMATION

Ecological Information: Bulk Solution - Product poses no specific environmental problems.

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SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Considerations: Bulk Solution - No special precautions. Scrub Brush - Observe all laws concerning health and environmental (incineration or landfill).

SECTION 14 - TRANSPORTATION INFORMATION

Transportation and Hazardous Materials **DOT ID Number:** N/A **Packing Group:** N/A
Description: Bulk Antimicrobial Detergent
ULTRADEX® PCMX - Do not store for prolonged periods at excessive hot or cold temperatures. Ship under standard labeling.

Proper Shipping Name: N/A

U.S. Federal Regulations: U/K

State Regulations: U/K

International Regulations: U/K

SECTION 16 - OTHER INFORMATION

Other Information:

. TSCA: All components of this material are listed in the TSCA (USA) inventory.

Definitions: N/A=Not Applicable U/K=Unknown

To the best of our knowledge, the information contained herein is accurate. However, neither Becton Dickinson and Company nor any of its subsidiaries assume 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.

Medical Conditions Generally Known to be Aggravated by Exposure to the Material: U/K