EFFICACY EVALUATION AND TECHNICAL MANAGEMENT SECTION

EFFICACY REVIEW - I

ANTIMICROBIAL PROGRAM BRANCH

INU5/16/94U01U6/U8/94	IN	03/ ±0/ 2 ±	OUT	06/08/94
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Szinival, bowda Reviewed by Srinivas Gowda _ Date__ 06/08/94 1106-79 EPA Reg. No. or File Symbol 44486-15 EPA Petition or EUP No. None Date Division Received_ 05-02-93 Type Product_____ Hospital Disinfectant None MRID No (s)_____ PM 31 (Lee) Product Manager____ Product Name Broadspec 256 Germicidal Detergent Brulin and Company, Inc. Company Name____ Submission Purpose Review of AOAC Tuberculocidal Test data from EMSL [EMSL Sample Nos. 92-0877 (Lot No. UD120) and 92-0878 (Lot No. UD122)] Type Formulation Liquid concentrate to be used diluted 왕 Active Ingredient (s): n-Alkyl (C_{14} , 50%; C_{12} , 40%; C_{16} , 10%) dimethyl benzyl ammonium chloride......5.36 Octyl decyl dimethyl ammonium chloride.....4.02 Didecyl demethyl ammonium chloride.....2.71 Dioctyl dimethyl ammonium chloride.....2.01 200.0 Introduction

200.1 Uses:

Refer to the last accepted label dated Nov. 6, 1990.

200.2 Background Information:

The submission received 05-02-94, is for review of EMSL's AOAC Tuberculocidal Test data developed under the (post-registration testing) contract at a 1:256 dilution in the presence of 200 ppm CaCO₃ hard water for a contact time of 10 minutes at 20°C.

201.0 Data Summary

201.2 Brief Description of Test:

AOAC Use-Dilution Test results by Terry C. Covert, Microbiologist, Bacteriology Branch, Environmental Monitoring systems Laboratory, Cincinnati, Ohio 45268, dated April 26, 1994.

201.3 Test Summaries

AOAC Tuberculocidal Test

Method: AOAC Tuberculocidal Activity of Disinfectants,

Confirmative In Vitro Test for Determining Tuberculocidal Activity, 15th Edition, 1990,

Chapter 6.

Modifications: 1:256 dilution was made in 200 ppm CaCO3

hard water.

5% fetal bovine serum was incorporated in

to the culture suspensions.

Samples:

EMSL Sample Number	Date Diluted	<u>Date Tested</u>
92-0877 (Lot UD120)	11-05-93	11-05-93
92-0878 (Lot UD122)	11-05-93	11-05-93

Dilution: 1:256 in 200 ppm CaCO3hard water

Exposure: 10 minutes at 20°C.

Subculture Medium/Neutralizer:

Modified Proskauer-Beck Medium

Middlebrook 7H9 Broth

Kirchners Medium

TB Broth

Letheen Neutralizer Blanks

Incubation of subcultures: 90 days at 37°C.

Test Organisms

ATCC No.

Mycobacterium bovis (BCG)

Organon Teknika

Carriers Tested: Porcelain penicylinders.

Test Results:

EMSL Sample No.	Dilution <u>Tested</u>	Water <u>Hardness</u>		No. Posit Total Car	•	
			<u>MPBM</u>	<u>M7H9B</u>	<u>KB</u>	TBBB
92-0877	1:256	200	10/10	0/10	9/10	NA
92-0878	1:256	200	9/10	0/10	5/10	NA
Phenol	(1+50) (1+75)		0/10 0/10	0/10 2/10	0/10 0/10	0/10 0/10

Conclusions:

The submitted data on EMSL Sample Nos. 92-0877 (Lot No. UD120) and 92-0878 (Lot No. UD122) by the AOAC Tuberculocidal Test Method demonstrate ineffectiveness of the product as a tuberculocide against Mycobacterium bovis (BCG) when tested at a 1:256 dilution in the presence of 200 ppm CaCO₃ hard water for a contact time of 10 minutes at 20°C.

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BroadSpec 258 is a "one-step" concentrated multi-purpose permicidal detergent effective is hard waters up to 400 ppm hardwater (calculated as CaCO_A) in the presence of 5% organic serum. The activity of BroadSpec 258 has been evaluated by the current A.O.A.C. use dilution test and found to be effective against the following

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SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 OF SURFACES/ CS. IECTS BOWED WITH BLOOD/BODY ILLINOS:

PERSONAL PROTECTION: Specific barrier protection items to be used when handling items solled with blood or body fluids are disposable latax gloves, gowns, masks, or eye coverings.
CLEANING PROCEDURE: Blood and other body fluids must be thoroughly deened from surfaces and objects before application of BroadSpec 258. This pre-cleaning may be accomplished with any cleaning solution including BroadSpec 258.

DISPOSAL OF INFECTIOUS MATERIAL: Blood and other body fluids should be sufociated and disposed of according to lederal, state and local regulations for infectious waste disposal.

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HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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NOTE TO PHYSICIAN: Probable mucosa damage may contraindicate the use of gestric lavege.

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PESTICIDE DISPOSAL: Pesticide wusteb an acutely hazardous, improper disposal of excess passicide, apray mixtor increase is a volation of Federal Law. If these waske cannot be disposed of by use according to label study uctions, clact your State Pasticide or Environmental Control Apency, or the Hazardous Waste Representative at the nearest Regional Office for guidence.

Regional Office for guidence.

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Consult federal, state or local disposal authorities for approved alternative procedures

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EFFICACY EVALUATION AND TECHNICAL MANAGEMENT SECTION

EFFICACY REVIEW - II

ANTIMICROBIAL PROGRAM BRANCH

EPA Reg. No. or File Symbol	44486-15
EPA Petition or EUP No	None
Date Division Received	05-02-93
Type Product	Hospital Disinfectant
MRID No (s)	None
Product Manager	PM 31 (Lee)
Product Name	Broadspec 256 Germicidal Detergent
Company Name	Brulin and Company, Inc.

202.0 Recommendations

202.1 Efficacy Not Supported By The Data:

AOAC Tuberculocidal Test

The submitted data on EMSL Sample Nos. 92-0877 (Lot No. UD120) and 92-0878 (Lot No. UD122) by the AOAC Tuberculocidal Test Method demonstrate ineffectiveness of the product as a tuberculocide against Mycobacterium bovis (BCG) when tested at a 1:256 dilution in the presence of 200 ppm CaCO₃ hard water for a contact time of 10 minutes at 20°C.