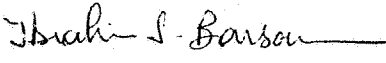
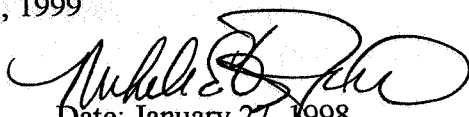


**EFFICACY AND SCIENCE SUPPORT BRANCH**

**ANTIMICROBIAL DIVISION**

**EFFICACY REVIEW - I**

In: 9/8/98 Out: January 27, 1999

Reviewed by: Ibrahim S. Barsoum    
Ibrahim Barsoum Date: January 27, 1998

EPA Reg. No.: 4822-484

DP Barcode: D249784

EPA Petition No.: none

Date Division Received: 9/28/98

Type Product: Multipurpose Disinfectant, Sanitizer, Cleaner.

MRID No.: 446496-1, 446496-2, 446496-3

Product Manager: Velma Nobles, PM 31

PM Team Reviewer: Zenobia Jones

Product Name: BD1

Company Name: S.C. Johnson & Son INC.

Submission Purpose: efficacy data submitted to support label claims of residual antibacterial and antifungal effects of BD1.

Type Formulation: Liquid

**Active Ingredients:**

n-Alkyl dimethyl benzyl ammonium chloride	0.11%
n-Alkyl dimethyl ethylbenzyl ammonium chloride	0.11%
3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride	0.11%

**RISK ASSESSMENT AND SCIENCE SUPPORT BRANCH**

**ANTIMICROBIAL DIVISION**

**EFFICACY REVIEW - II**

EPA Reg. No.: 4822-484  
DP Barcode: D249784  
EPA Petition No.: none  
Date Division Received: 9/28/98  
Type Product: Multipurpose Disinfectant, Sanitizer, Cleaner.  
MRID No.: 446496-1, 446496-2, 446496-3  
Product Manager: Velma Nobles, PM 31  
PM Team Reviewer: Zenobia Jones  
Product Name: BD1  
Company Name: S.C. Johnson & Son INC.

200.0 **Introduction:**

200.1 **Uses:** General Disinfectant & Sanitizer

200.2 **Background Information:** The registrant is submitting efficacy data to support label claim for residual antibacterial and antifungal effect.

201.0 **Data Summary:** None

201.1 **Abstract of Test Reports:** None

201.2 **Brief Description of Test: (title)**

Residual antibacterial efficacy data of BD1 for 14 days against *Staphylococcus aureus* (ATCC 6538), *Escherichia Coli* (ATCC 11229), and *Klebsiella pneumoniae* (ATCC13883) and residual antifungal efficacy data against *Aspergillus Niger* (ATCC 6275) performed according to EPA approved methods STM 029 and STM 030 by Diane M. Falbo of S.C. Johnson & Son, Inc. at 1525 Howe St., Racine, WI 53403, dated September 22, 1998.

201.3 **Data Summaries**

None

201.4 **Other Summarized Results:**

See Recommendations under 202.0.

## 202.0 RECOMMENDATIONS:

### 202.1 Efficacy:

The submitted efficacy data for residual self-sanitizing effect of BD1 against *Staphylococcus aureus*, *Escherichia coli*, and *Klebsiella pneumoniae* and residual antifungal effect against *Aspergillus niger* at an initial contact time of 1 minute and for a residual effect for up to 14 days at 28°C in the presence of 5% organic soil load, appear adequate to support the residual antibacterial and antifungal effectiveness of the product.

### 203.0 Labeling:

Remove the terminology "long lasting" everywhere it appears on the label. This is a non-quantifiable term and is inappropriate for labeling. The applicant should state the level of activity and the specific length of time the activity will remain (such as fungistatic for up to 14 days or residual self-sanitizing for up to 14 days.)

Remove the term "germs" everywhere it appears on the label. The broad term germs implies a wider range of microorganism types than those approved for this product. This product has only demonstrated antibacterial and antifungal properties.