

US EPA ARCHIVE DOCUMENT

**RESUBMISSION**  
**RISK ASSESSMENT & SCIENCE SUPPORT BRANCH**  
**EFFICACY REVIEW - I**  
**ANTIMICROBIAL DIVISION**

IN 06/27/97 OUT 07/08/97

*Srinivas Gowda*

Reviewed by Srinivas Gowda Date 07/08/97

EPA Reg. No. or File Symbol 4822-UIU

LAN Code 4822-UIU.797 *Mehl & Frick*

EPA Petition or EUP No. None

Date Division Received 06-27-97

Type Product Hospital Disinfectant

MRID No (s) 441860-14

Product Manager PM 31 (Edwards)

PM Team Reviewer Barbara Pringle

Product Name BD1

Company Name S.C. Johnson & Son, Inc.

Submission Purpose Resubmission of Residual Self-Sanitizing Data

In response to Agency letter dated Jun 20 1997

Type Formulation Liquid Pump Spray

**Active Ingredient (s):** 3

n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18)  
dimethyl benzyl ammonium chloride.....0.11

n-Alkyl (68% C12, 32% C14)  
dimethyl ethylbenzyl ammonium chloride.....0.11

3-(trimethoxisilyl) propylmethyloctadecyl ammonium chloride.0.11

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202.0 **Recommendations**

202.1 **Efficacy not Supported by the Data:**

"Residual Antibacterial Test for Bathroom Duck" by Diane M. Falbo, Technology specialist, S.C. Johnson Wax, Inc., 1525 Howe Street, Racine, Wisconsin 53403, dated December 21, 1996 (MRID No. 441860-14)

The submitted residual self-sanitizing test data are not acceptable for the following reasons:

1. Test and control surfaces were not recontaminated with the test inocula with organic soil at 24 hour intervals for up to seven days. See item 9.2.5 of the protocol under the heading "Procedures".

2. On day zero and once per day for up to seven days, tiles were rinsed for 5 minutes only instead of 30±5 minutes. See item 9.2.1 of the protocol under the heading "Procedures".

3. The 24 hour contact time employed in the test is too long and it does not simulate the real use situation.

NOTE TO PM: In the previous review for this product, the virucidal data for MRID # 441860-11 was accepted by mistake. Comments should read as follows:

"Efficacy Testing of Disinfectant Bathroom Duck - No Fragrance. Formula 7217H121 (BTC 2125M) Virucidal Claims 201M3" by Diane M. Falbo, S.C. Johnson Wax, Inc., 15425 Howe Street, Racine, WI 53403, dated December 1993 (MRID No. 441860-11)

The submitted virucidal data developed by the Modified AOAC Germicidal Spray Products Test Method are not acceptable because insufficient number of embrionated eggs survived virucidal testing for a valid test. Tests must be repeated using a good batch of viable embrionated eggs and a better neutralization procedure. For your information: You must stop the virucidal action immediately after 10 minute contact time by the addition of an appropriate neutralizer solution to the virus + disinfectant mixture prior to resuspension.

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