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TECHNICAL SUPPORT SECTION TOXICOLOGY REVIEW - I

Disinfectants Branch

Reviewed by James F. Wilson, Jr. IN 7/8/81 OUT 7/24/81
Date 7/23/81

EPA Reg. No. or File Symbol 707-147

EPA Petition or EUP No. _____

Date Division Received 3/24/81

Type Product(s): I, (D), H, F, N, K, S _____

Data Accession No(s). 245417

Product Mfg. No. 31 (Lee)

Product Name(s) Fohm and Hass DC-100 P

Company Name(s) Fohm and Hass

Submission Purpose New Use

Chemical & Formulation Liquid to be diluted

Active Ingredient(s): _____

n-Alkyl(50% C₁₄, 40% C₁₂, 10% C₁₆) dimethyl benzyl ammonium chloride 5..

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300.0 Introduction

300.1 Uses

Product is used as a cleaning sanitizer. Extension of the use is requested to include claims as a mildewstat.

300.2 Background

Only the acute dermal study is submitted for this formulation. Toxicity data (i.e., acute oral and eye and skin irritation studies, developed on other formulations) will be used to support the safety of the product.

301.0 Data Summary

301.1 Brief Description of Study

Acute Dermal Toxicity in Rabbits. Report by Toxicology Department of Rohm and Haas, Spring House, PA 19477, dated April 30, 1979 (Accession No. 245417).

301.2 Study Summary

1. Method

Four groups of male rabbits, 6 rabbits per group, had doses equal to 1.3, 2.0, 3.2 and 5.0 g/kg applied to the closely clipped skin under an impervious cuff for 24 hours. All animals were examined for gross pathology at time of death or after the 14 day observational period.

2. Results

Two rabbits died, one at 3.2 g/kg and the other at 5.0 g/kg. Weight losses occurred in the two highest groups and weight gains were depressed in the lower groups. Irritation of the skin was severe. The kidneys of decedents were spotted with dark red patches while survivors had pale kidneys.

3. Conclusion

The dermal LD₅₀ to male rabbits is greater than 5.0 g/kg.

302.0 Recommendation

The study did not investigate the toxicity of the product to female rabbits nor its toxicity to rabbits with abraded skin.

Toxicology data are not required to expand the use to include mildew. Therefore, no objection is being presented.

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