

Disinfectants Branch

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Reviewed by James E. Wilson, Jr. Date 4/25/84

EPA Reg. No. or File Symbol 38906-RE

EPA Petition or EUP No.

Date Division Received 3/13/84

Type Product(s): I, (D) H, P, N, R, S

Data Accession No(s). 252642

Product Mgr. No. 32 (Castillo)

Product Name(s) Dantabrom RW

Company Name(s) Glyco, Inc.

Submission Purpose New Application

Chemical & Formulation

Active Ingredient(s):

1-Bromo-3-chloro-5,5-dimethylhydantoin	50.0
1,3-Dichloro-5,5-dimethylhydantoin	27.4
1,3-Dichloro-5-ethyl-5-methylhydantoin	10.6

BACKGROUND

This product contains three hydantoin chemicals totaling 98.0%. The registrant has petitioned that in addition, acute toxicology data should be submitted since technicals of all of the actives are severely irritating to the skin of rabbits and cause destruction to the eye. Orally, they are ^{placed in} toxicity category 3; dermally, they are placed in toxicity category 3 or 4.

A matrix of studies on the subject formulation show that the acute oral LD₅₀'s are 500 and 758 mg/kg for male and female rats respectively, the eyes of test rabbits were destroyed and 0.5 g applied to the skin of rabbits was corrosive.

The pH of a 1% slurry is 3.6. EPA guidelines permit registration of a highly acidic product ~~without the need for acute~~ without requiring acute dermal ^{and} eye and skin irritation data.

RECOMMENDATION

Based on the pH of the product ^(3.6) and the fact that all of the active ingredients produce corrosive effects in the eyes and on the skin of rabbits, and an oral LD₅₀ has been determined on the formulation, ^{it is} ~~is~~ recommended that the product be registered as acute toxic category 3.

^{recommended}
The toxicity categories are:

Acute Oral -	3
Acute Dermal -	3
Eye Irritation -	1
Skin Irritation -	1

The statement "Do not take internally" should be deleted.

~~At. 1.1.1.1~~

Note to P.M. -

