

RD-974
TAR-3118

003118

Memorandum

Date: 27 July 1983

Subject: EPA File Symbol: 47664-R RIDALL-2
Caswell #922
In 7-14-82 (expedite); Record No. 101203

From: B. T. Backus
IRB/TSS

To: Mr. William Miller
Product Manager 16

Applicant: Scimetric International, Inc.
P.O. Box 513
Conifer, CO 80433

Background:

A rat oral LD₅₀ has been submitted for the product formulation.

Comments and Recommendations:

1. The rat oral LD₅₀ study received 7-7-83 is acceptable. However, the reported male oral LD₅₀ value appears to be too low given the mortalities at the different dosage levels. We have done a quick computation and have obtained a value of approximately 1920 mg/kg using a least squares method estimation.
2. This product is in toxicity category III by the oral exposure route.

Review:

The following study was conducted by Scimetrics International, Inc. Conifer, CO. The study was received at EPA 7-7-83, and is in Acc. 250708.

1. Acute Oral LD₅₀ - Rat. Study dated June, 1983.

Procedure: Groups of 5M, 5F wild Norway rats received dosages of 500, 1000, 2000 or 4000 mg/kg of the formulation containing 1.88% zinc phosphide. Material was administered as a suspension in corn oil, with subsequent 14-day observation.

Results:

Dosage Level (mg/kg)	Mortalities/Animals Dosed	
	M	F
500	0/5	1/5
1000	0/5	0/5
2000	2/5	1/5
4000	5/5	5/5

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Symptoms: Sluggishness, animals crouched with back hunched, labored breathing, convulsive seizures, flaccid paralysis of hind limbs. Necropsies of mortalities showed lung hemorrhages, pale or bleached livers, and GI hemorrhage. Three subjects showing symptoms ~~showed~~ ~~symptoms~~ but recovered.

Oral LD₅₀ (M) (as reported) = 1299.82 (966.18-1748.9) mg/kg
Oral LD₅₀ (M) (recalculated) = 1520 mg/kg
Oral LD₅₀ (F) = 2142.98 (1215.4-3778.46) mg/kg
Oral LD₅₀ (combined) = 2074.6 (1516.23-2838.5) mg/kg

Study Classification: Core Minimum Data

Product Classification: Tox. Cat. III

Byron T Backus 07/27/83

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