

BB-974
TR-3941

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: April 21, 1978

SUBJECT: Z.P. Tracking Powder EPA Registration#12455-RA
Caswell#922 (Zinc Phosphide)

003941

FROM: William Dykstra, Ph.D
Toxicology Branch

WJD 4/26/78

TO: William Miller
Product Manager #11

Registrant: Bell Laboratories, Inc.
734 East Washington Avenue
Madison, WI 53703

Action Type: New Registration

Recommendations:

1. The submitted acute oral toxicity study is acceptable as core-minimum data. The product is classified as TOX II: WARNING. No additional toxicity studies are required for registration.
2. Since the use of the product is restricted to pest control operators and certified applicators, the precautionary labeling is adequate to protect the user of the product.

Additional restrictions on the use or placement of the tracking powder should specify "Product should not be placed in locations accessible to children, pets, or domestic animals." This statement should be sufficient to avoid human exposure during treatment periods.

Product: Z.P. Tracking Powder

<u>Ingredient</u>	<u>Percent weight</u>
Zinc Phosphide	10%
Inerts	90%
	<u>100%</u>

Uses: Z.P. tracking powder is a single dose acute rodenticide. Determine the areas of highest mouse activity. Apply the tracking powder in areas of concentrated traffic in dry places such as wall voids, burrows, runways, bait stations or fabricated tunnels by dusting or sprinkling powder to lightly cover the surface of an area to be treated (one to two level teaspoonfuls to an area approximately 3" to 24"). The toxic material in Z.P. tracking powder adheres to the feet and body of the animal, which, in turn is ingested as the rodent grooms itself.

Application Rate: If mouse activity persists repeat treatment as specified above. After completion of control program, collect and bury all remaining powder and dead animals. For Pest Control Operator and Certified Applicator Use Only..

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Review

1. Acute Oral LD₅₀ in Rats (WARF Institute No. 8012728, 1/25/78)

Test Material: 10% Zinc Phosphide - ZP tracking powder

Six groups of ten/male Sprague-Dawley adult albino rats (170-190 gm BW) received orally by stomach tube doses of 160, 200, 300, 500, 700 and 1000 mg/kg BW of test material diluted 1:5 in corn oil. Four groups of 10 female Sprague-Dawley adult albino rats (175-225 gm BW) received orally by stomach tube doses of 160, 200, 300 and 1000 mg/kg BW of test material diluted 1:5 in corn oil.

Observation were made at hourly intervals for 5 hours after dosing and twice daily for 14 days. Gross post mortem examinations were performed on all animals on test and gross issue alterations noted.

Results: All deaths occurred within 3 days

- Oral LD₅₀ = between 160-200 mg/kg (males);
- Oral LD₅₀ = between 200-300 mg/kg (females).

Toxic Signs: not reported

Body Weight: no losses in survivors

Autopsy: males and females; hemorrhagic, kidneys, dark colored livers, corneal opacity, mottled liver

Classification: Core-Minimum Data (1) LD₅₀ was not accurately calculated.

TOX Category II: WARNING

Typists: TH

RD initial G.E.W. 4/19/78

E. for G.E.W. 4/25/78

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