

DATA EVALUATION REPORT

ZIRAM

STUDY TYPE: PRIMARY DERMAL IRRITATION - RABBIT (81-5)

Prepared for

8/2/2000

Health Effects Division
Office of Pesticide Programs
U.S. Environmental Protection Agency
1921 Jefferson Davis Highway
Arlington, VA 22202

Prepared by

Chemical Hazard Evaluation Group
Toxicology and Risk Analysis Section
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Oak Ridge, TN 37831
Task Order No. 97-22J

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Disclaimer

This review may have been altered subsequent to the contractor's signatures above.

Oak Ridge National Laboratory, managed by Lockheed Martin Energy Research Corp. for the U.S. Department of Energy under contract number DE-AC05-96OR22464.

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Primary Dermal Irritation Study (OPP 81-5; OPPTS 870.2500)

EPA Reviewer: Virginia A. Dobozy, V.M.D, M.P.H., _____ Date _____

Reregistration Branch 1 (7509C)

Whang Phang, Ph.D., Branch Senior Scientist, _____ Date _____

Reregistration Branch 1 (7509C)

DATA EVALUATION RECORD

STUDY TYPE: Primary Dermal Irritation - Rabbit
OPPTS 870.2500 [§81-5]

DP BARCODE: D235025

SUBMISSION CODE: S521512

P.C. CODE: 034805

TOX. CHEM. NO.: 931

TEST MATERIAL (PURITY): Ziram 76% WG (77.2%)

SYNONYMS: Zinc dimethyldithiocarbamate

CITATION: Liggett, M. (1990) Skin irritation to rabbits with Ziram 76% WG. Huntingdon Research Centre Ltd., P.O. Box 2, Huntingdon, Cambridgeshire, PE18 6ES, England. HRC Study Report No. 9068D/UCB 328/SE, March 15, 1990. MRID 41454602. Unpublished.

SPONSOR: UCB Chemicals Corporation, 5505 Robin Hood Road, Norfolk, VA 23513

EXECUTIVE SUMMARY: In a primary dermal irritation study (MRID 41454602) six young female adult New Zealand white rabbits were dermally exposed to 500 mg Ziram 76% WG (77.2%, Batch no. P891006) moistened with 0.5 mL distilled water for 4 hours. Animals were then observed daily for 4 days. Irritation was scored by the method of Draize.

None of the animals showed any response to treatment throughout the observation period. **Based on the results, Ziram 76% WG is not an irritant to the skin of rabbits (Toxicity Category IV).**

This study is classified as acceptable (guideline). It does satisfy the guideline requirement for a primary dermal irritation study (81-5) in the rabbit.

COMPLIANCE: Signed and dated GLP, Quality Assurance, and Data Confidentiality statements were provided.

I. MATERIALS AND METHODS

A. MATERIALS1. Test material: Ziram 76% WG

Description: small beige granules

Lot/Batch #: P891006

Purity: 77.2% a.i.

CAS #: 137-30-4

2. Vehicle

Distilled water

3. Test animals

Species: rabbit

Strain: New Zealand White

Age and weight at dosing: ~9-12 weeks, 2.2-2.8 kg

Source: Froxfield Farms (U.K.) Ltd., Petersfield,
Hampshire, England

Acclimation period: not given (acclimated to the
laboratory environment)

Diet: SDS Standard Rabbit Diet, *ad libitum*

Water: tap water, *ad libitum*

Housing: individually in metal cage with a perforated floor

Environmental conditions:

Temperature: ~19°C

Humidity: 30-70%

Air changes: 19/hour

Photoperiod: 12 hour light/dark

B. STUDY DESIGN and METHODS1. In life dates

Start: October 31, 1989; end: November 3, 1989

2. Animal assignment and treatment

Six female animals were given a single 500 mg dose of Ziram 76% WG dermally applied under 2.5 cm² gauze pad to a ~10 cm² shaved site on the dorso-lumbar region. The test material was moistened with 0.5 mL distilled water and the application site covered with Elastoplast elastic adhesive dressing. The semi-occlusive dressing and gauze pads were left in place for 4 hours, at which time they were removed and the application site washed with water. The site was scored for erythema and edema according to the Draize method on Days 1 (~30 minutes after removal of the patches), 2, 3 and 4.

II. RESULTS AND DISCUSSION

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A. None of the animals showed any response to treatment throughout the observation period. Based on the results, Ziram 76% WG is not an irritant to the skin of rabbits.

B. DEFICIENCIES

No study deficiencies were noted.

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Primary Dermal Irritation Study (OPP 81-5; OPPTS 870.2500)

SignOff Date: 8/2/00
DP Barcode: D172447
HED DOC Number: 014277
Toxicology Branch: RAB2