DATA EVALUATION RECORD

MESOTRIONE (ZA1296)

7/19/2000

Study Type: §81-5, Primary Dermal Irritation Study

Work Assignment No. 2-01-52K (MRID 44373520)

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

Prepared by Pesticide Health Effects Group **Sciences Division Dynamac Corporation** 2275 Research Boulevard Rockville, MD 20850-3268

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Disclaimer

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MESOTRIONE (ZA1296)

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Registration Action Branch 1/HED (7509C)

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rimary Dermal Irritation Study (§81-5)

DATA EVALUATION RECORD

STUDY TYPE: Primary Dermal Irritation - Rabbit

OPPTS Number: 870.2500

OPP Guideline Number: §81-5

DP BARCODE: D259369

SUBMISSION CODE: S541375

P.C. CODE: 122990

TOX. CHEM. NO.: None

TEST MATERIAL (PURITY): ZA1296 (95.1% purity)

SYNONYMS: None specified

CITATION: Robinson, P. (1994) ZA1296: skin irritation to the rabbit. Zeneca Central

Toxicology Laboratory, Macclesfield, Cheshire, UK. Laboratory Report No. CTL/P/4504, Study No. EB4314. November 4, 1994. MRID 44373520.

Unpublished.

SPONSOR: Zeneca AG Products, Wilmington, DE.

EXECUTIVE SUMMARY: In a primary dermal irritation study (MRID 44373520), six young adult New Zealand White female rabbits were dermally exposed to 500 mg of ZA1296 (95.1% purity) for 4 hours; the test substance was moistened with deionized water and applied to a single intact 6.25 cm² site/animal. Animals were observed for dermal irritation and mortality for up to 3 days following patch removal; irritation was scored by the Draize scale.

Very slight erythema and edema were observed at 2/6 application sites within 60 minutes of patch removal. All irritation subsided by 1 day.

In this study, ZA1296 is not a dermal irritant and is classified as TOXICITY CATEGORY IV for primary dermal irritation.

This study is classified acceptable (§81-5) and satisfies guideline requirements for a primary dermal irritation study in the rabbit.

<u>COMPLIANCE</u>: Signed and dated GLP, Quality Assurance, and Data Confidentiality statements were provided.

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I. MATERIALS AND METHODS

A. MATERIALS:

1. Test Material: ZA1296

Description: Light beige solid

Lot/Batch #: P11, WRC 14845-32-2

Purity: 95.1% (w/w) CAS #: Not provided

2. Vehicle: Deionized water

3. <u>Test animals</u>: Species: Rabbit Strain: New Zealand White

Age: Young adult

Weight: 3534-4057 g (all female)

Source: Charles River UK Ltd, Manston Road, Margate, Kent, UK

Acclimation period: ≥6 Days

Diet: Standard Rabbit Diet (STANDRABSQC), Special Diets Services Ltd., Witham,

Essex, UK, <u>ad libitum</u>
Water: Tap water, <u>ad libitum</u>

Housing: One animal/cage in aluminum sheet cages

Environmental conditions: Temperature: 17±2 °C Humidity: 55±15%

Air changes: Approximately 25-30 changes/hour

Photoperiod: 12-Hour light/dark

B. STUDY DESIGN and METHODS:

1. In-life dates: July 1994

2. Animal assignment and treatment: Fur from the dorsal trunk areas of six young adult New Zealand White female rabbits was clipped 1 day prior to dermal administration with 500 mg of ZA1296. The test substance was moistened with deionized water and applied to a single intact site per animal via a 2.5- x 2.5-cm surgical gauze patch. The gauze was secured with tape and the trunk of each animal was wrapped with impermeable rubber sheeting, which was then secured with polyethylene tape. Following a 4-hour exposure period, the coverings were removed, and the test sites were gently washed with warm water. The rabbits were observed for dermal irritation at approximately 30-60 minutes and 1, 2, and 3 days following patch removal. Erythema and edema were scored separately using the Draize scale. Body weights were recorded at the start of the study.

II. RESULTS AND DISCUSSION:

- A. <u>Clinical observations</u>: Very slight erythema and edema (scores of 1) were observed at 2/6 application sites at the 30-60 minute observation period. All irritation subsided by 1 day, In this study, ZA1296 is not a dermal irritant.
- B. <u>Deficiencies</u>: There were no deficiencies that affected the validity of the study results.

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