UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

APR 22 1986

MEMORANDUM

SUBJECT: EPA Registration Number 524-343
Rodeo Herbicide

FROM: Deloris F. Graham 4/30/86
Technical Support Section
Fungicide-Herbicide Branch
Registration Division (TS-767C)

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TO: Robert Taylor, PM 25
Fungicide-Herbicide Branch
Registration Division (TS-767C)

Applicant: Monsanto Company
1101 17th Street NW.
Washington, DC 20036

Active Ingredient:
Isopropylamine salt of glyphosate 53.8%
Inert Ingredients: 46.2%

Background:

Submitted Dermal Sensitization Study to fulfill acute toxicity data requirements for registration of this product. Study conducted by Bio/dynamics, Inc. Data under Accession Number 257910. Method of support not indicated.

Recommendation:

FHB/TSS finds this study acceptable to support conditional registration of this product. Product considered nonsensitizing.

Label: No additional labeling comments.

Dermal Sensitization Study: Bio/dynamics, Inc.; Study No. 4989-34; December 18, 1984.

Procedure:

Using the Buehler patch method three groups consisting of five male and five female guinea pigs each received 0.4 ml applications three times a week for 3 weeks during induction of one of the following substances: test material, 100%; dinitrochlorobenzene (DNCB, positive control), 0.5% in 80% ethanol; or distilled water (negative control). Fourteen days after last induction phase application a challenge dose was applied to each group of animals using the appropriate material. Also at challenge three additional groups consisting of six guinea pigs each were treated with one of the three previously mentioned substances and served as irritation control groups for that particular substance. Observations made at 24 and 48 hours after each application.

Results:

Trace irritation (±) noted in some animals during induction phase of test material. However, at challenge with a nonirritating concentration no irritation produced in treated or irritation control groups, thereby indicating that this product does not produce a sensitizing response.

No irritation produced during induction phase or at challenge with negative control.

Very slight to moderate edema and necrosis produced during induction phase of DNCB, positive control. At challenge with a nonirritating concentration of DNCB irritation was produced in induction-phase animals, but not in irritation control group, thereby indicating that sensitization has occurred.

Study Classification: Core Guideline Data.

Toxicity Category: Nonsensitizing.