

DD-689
TOL-6/55



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

006155

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MAY 15 1986

MEMORANDUM

DATE: May 15, 1986

SUBJECT: EPA Registration Number: 5905-482
Helena 4.8 lb Diuron Flowable Herbicide

FROM: Deloris F. Graham *DAF 5/20/86 E 5/20/86*
Technical Support Section
Fungicide-Herbicide Branch
Registration Division (TS-767C)

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

Applicant: Helena Chemical Company
5100 Poplar, Suite 3200
Memphis, TN 38137

ACTIVE INGREDIENT:
Diuron 3-(3,4-dichlorophenyl)-1,1-dimethylurea . . . 47.5%
INERT INGREDIENTS: 52.5%

BACKGROUND:

Submitted Dermal Sensitization Study to fulfill acute toxicity data requirements for conditional registration. Study conducted by Stillmeadow, Inc. Data under Accession Number 260570. Method of support not indicated.

RECOMMENDATION:

FHB/TSS finds these data acceptable to support conditional registration of this product. As indicated by these data this product is not a sensitizing agent.

LABEL: No labeling necessary in regard to dermal sensitization.

154

REVIEW:

- (1) Dermal Sensitization Study: Stillmeadow, Inc.; Project No. 3858-85; December 6, 1985.

PROCEDURE:

Two groups consisting of 10 male guinea pigs each were treated with one of the following: undiluted test material of a 0.05% w/v solution of 2,4-dinitrochlorobenzene (DNCB) in ethanol, positive control. During induction phase each animal received an initial 0.5 ml of the appropriate material, then on alternate days totaling 10 induction phase applications. Two weeks after tenth application a challenge dose was applied at treated site and virgin site on each animal using appropriate material. Observations made at 24 and 48 hours after each application.

RESULTS:

No irritation produced by test material during induction phase or at challenge dose. However, DNCB did produce a positive sensitizing reaction as indicated by the following scores: average skin reaction after initial treatment was 0.0; challenge of treated site was 3.2; challenge of virgin site 2.4.

STUDY CLASSIFICATION: Core Guideline Data.

TOXICITY CATEGORY: Nonsensitizing.

006155

HELENA CHEMICAL COMPANY



CORPORATE OFFICE

Suite 3200 — Clark Tower
5100 Poplar Avenue
Memphis, Tennessee 38137
Telephone 901/761-0050
Telex 8105911595

HELENA

4.8 LB DIURON FLOWABLE HERBICIDE
FOR CROP AND NON-CROP WEED CONTROL

ACCEPTED
OCT - 4 1985
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under
EPA Reg. No. 5905-1482

ACTIVE INGREDIENTS	% BY WT
Diuron 3-(3,4-dichlorophenyl)- 1,1-dimethylurea	47.5
INERT INGREDIENTS.....	52.5
TOTAL.....	100.0

This product contains 4.8 pounds diuron per gallon

KEEP OUT OF REACH OF CHILDREN
WARNING
See Side Panel for Additional Precautionary Statements

EPA File Symbol 5905-UIE
EPA Est. No. *

NET CONTENTS

Manufactured by
HELENA CHEMICAL COMPANY
Memphis, TN 38137

3

006155.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
(AND DOMESTIC ANIMALS)

WARNING

Causes eye irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. Avoid breathing spray mist. Wash thoroughly after handling. In case of contact, wash skin with soap and water, flush contaminated eyes with plenty of fresh water for 15 minutes and get medical attention.

ENVIRONMENTAL HAZARD

Do not apply directly to lakes, streams, or ponds. Do not contaminate water by cleaning of equipment or disposal of waste.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

STORAGE AND DISPOSAL

Storage: Do not store at temperatures below 32° F. If product freezes, expose to room temperature and shake well before using. Do not contaminate water, food, or feed by storage or disposal.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Helena 4.8 LB Diuron is a flowable formulation to be mixed in water and applied as a spray for selective control of weeds in certain crops and for nonselective control of weeds in certain crops and for nonselective weed control on non-cropland areas. It is noncorrosive to equipment, nonflammable and nonvolatile.

Helena 4.8 LB Diuron may be applied to soil prior to emergence of weeds to control susceptible weed seedlings for an extended period of time; the degree of control and duration of effect will vary with the amount of chemical applied, soil texture, rainfall and other conditions. Soils high in clay or organic matter require higher dosages than soil low in clay or organic matter to obtain equivalent herbicide performance. Moisture is required to activate the chemical; best results occur if rainfall (or sprinkler irrigation) occurs within 2 weeks of application.

Helena 4.8 LB Diuron may also be used to control emerged weeds. Results vary with rate applied and environmental conditions; best results are obtained on succulent weeds growing under conditions of high humidity and temperatures of 70° F or higher. Addition of a non-ionic surfactant increases contact effects of Helena 4.8 LB Diuron. Since the effect of Helena 4.8 LB Diuron varies with soils, uniformity of application, and environmental conditions, it is suggested that growers limit their first use to small

4