

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (721-567)
WASHINGTON, D.C. 20460

EPA REGISTRATION NO.

DATE OF ISSUANCE

464-567

July 1, 1985

TERM OF ISSUANCE

Until November 1, 1985

NAME OF PESTICIDE PRODUCT

Reldan 4F Insecticide

NOTICE OF PESTICIDE: REGISTRATION
 RENEWAL

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Dow Chemical U.S.A.
Agricultural Products Department
P. O. Box 1706
Midland, MI 48640

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with the provisions of section 3(c)(7)(c) of the Act, since you have submitted the following data on or before July 1, 1985.

Type of Data	Receipt of Data
1. Rat Hepatocyte/ Unscheduled DNA Synthesis (HPC/HPS)	June 27, 1985
2. Chinese Hamster ovary Cell-Hypoxanthine (Guanine) Phosphoribosyl Transferase Forward Mutation Assay (CHO/HGPPT)	June 27, 1985
3. Mouse Bone Marrow Micronucleus Test (Mouse M1)	June 27, 1985

ATTACHMENT IS APPLICABLE

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SIGNATURE OF APPROVING OFFICIAL

[Signature]

DATE

7/1/85

This registration is being extended until November 1, 1985 during which time the Agency will assess the above data. If these data are found to support continued registration, the Agency will consider another extension for this registration beyond November 1, 1985.

You must submit and/or cite all data required for registration/reregistration of your product under FIFRA Section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

You must submit production information (pounds produced) for this product for the fiscal year in which this product is conditionally registered, in accordance with Section 29 of FIFRA. The fiscal year begins October 1 and ends September 30. The production information must be submitted to the Agency no later than November 15, following the end of the preceding fiscal year. This information must be submitted to:

Registration Support and Emergency Response Branch
Registration Division (TS-767C)
Environmental Protection Agency
Washington, D.C. 20460

Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, this registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Jay S. Ellenberger
Product Manager (12)
Insecticide Rodenticide Branch
Registration Division (TS-767)

Enclosure

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***** PENDING APPROVAL *****

THE DOW CHEMICAL COMPANY QUALITY ASSURANCE
LABEL CONFIRMATION COPY PRINTED: 3-DEC-84 PAGE: 1

SPECIFICATION NUMBER: 96382-L1 STYLE: I DESCRIPTION: SPECIMEN LABEL
REQUESTOR: ROSS/PAGE
PRODUCT NAME: RELDAN* 4E
DATE CODE: 1184 PREVIOUS DATE CODE: NEW
TEXT MASTER: 0695-HELD PUT ON HOLD BY: EVA ROSS

Specimen Label

RELDAN* 4E
insecticide

Controls Insect Pests Attacking Stored Grains

Active Ingredient(s):

Chlorpyrifos-methyl

[O,O-dimethyl O-(3,5,6-trichloro-
pyridyl)

phosphorothioate] 42.3%

Xylene Range Aromatic

Solvent 47.0%

Inert Ingredients 10.7%

Contains 4 lb chlorpyrifos-methyl per gallon

E.P.A. Registration No. 464-

E.P.A. Est. 464-MI-1

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KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO: [MEDIUM]PRECAUCION AL USUARIO:[NORM] Si usted no lee ingl[ACUTE ACCENT]
es, no use este producto hasta que la etiqueta le haya sido explicada
ampliamente.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

USES EYE IRRITATION[BUL]MAY CAUSE ALLERGIC SKIN REACTION[BUL]

HARMFUL IF SWALLOWED

Do Not Get In Eyes, On Skin, Or On Clothings[BUL]Remove Contaminated
Clothings[BUL]Wash Thoroughly After Handling[BUL]Wear Goggles Or Face
Shield And Rubber Gloves Whenever Eye Or Skin Exposure Is Likely To
Occur[BUL]Avoid Breathing Vapors And Spray Mist[BUL]Keep Container
Closed[BUL]When Handling Concentrate Or Applying Diluted Sprays In
Areas Where Adequate Ventilation Is Not Present, Wear A Pesticide
Respirator Jointly Approved By The Mining Enforcement And Safety
Administration[BUL](Formerly The U.S. Bureau Of Mines) And By The
National Institute For Occupational Safety And Health Under The
Provisions Of 30 CFR Part II[BUL]Wash Hands, Arms And Face Thoroughly
With Soap And Water After Handling And Before Eating Or Smoking[BUL]
Routinely Shower And Bathe After Work. And Wash All Clothings With Soap
And Hot Water Before Reusing[BUL]

ACCEPTED
with COMMENTS
In EPA Letter Dated

(CONTINUED)

JUN 27 1985

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

464-557

***** PENDING APPROVAL *****

THE DOW CHEMICAL COMPANY QUALITY ASSURANCE
LABEL CONFIRMATION COPY PRINTED: 3-DEC-84 PAGE: 2

SPECIFICATION NUMBER: 96382-L1 STYLE: I DESCRIPTION: SPECIMEN LABEL
REQUESTOR: ROSS/PAGE
PRODUCT NAME: RELDAN* 4E

Keep Away From Food, Feedstuffs, And Water Supplies

[BOLD]STATEMENT OF PRACTICAL TREATMENT:[NORM] [BOLD]If Swallowed:[NORM]

Do not induce vomiting. Contains aromatic petroleum solvent. Call a physician immediately. [BOLD]If On Skin:[NORM] In case of contact, remove contaminated clothing and immediately wash with soap and water. [BOLD]If In Eyes:[NORM] Flush eyes with plenty of water for 15 minutes and call a physician.

[BOLD]NOTE TO PHYSICIAN:[NORM] Chlorpyrifos-methyl is a cholinesterase inhibitor. Treat symptomatically. Atropine only by injection is the preferable antidote. Oximes such as 2-PAM may or may not be therapeutic; if used early, however, use only in conjunction with atropine.

Physical or Chemical Hazards

COMBUSTIBLE[BUL]Do Not Use or Store Near Heat or Open Flame.[BUL]Do not Cut or Weld Container.

Environmental Hazards

RELDAN 4E insecticide is toxic to fish, birds and other wildlife.[BUL] Do not apply directly to water.[BUL]Do not contaminate water by cleaning of equipment or disposal of wastes.

NOTICE

Read the entire label. Use only according to label directions.

[BOLD]

Before[NORM] buying or using this product, read "WARRANTY LIMITATIONS AND DISCLAIMER" elsewhere on this label. If terms are not acceptable, return [BOLD]unopened[NORM] package at once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under the Limit of Warranty and Liability.

(1) DIRECTIONS FOR USE

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

(2) PRODUCT INFORMATION:

[BOLD]STORED GRAIN:[NORM] For protection of stored food, feed, oil and seed grains against injury from stored grain weevils, moths, borers, beetles and mealworms including granary weevil, rice weevil, red flour beetle, confused flour beetle, saw-toothed grain beetle, Indian meal moth, Ansonmois grain moth and lesser grain borer. For optimum results, thoroughly clean and treat grain storage areas prior to storage of grain.

(CONTINUED)

(barley, oats, rice, sorghum and wheat)

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SPECIFICATION NUMBER: 96382-L1 STYLE: I DESCRIPTION: SPECIMEN LABEL
REQUESTOR: ROSS/PAGE
PRODUCT NAME: RELDAN* 4E

(3)
[EOLD]GRAIN BIN AND WAREHOUSE:[NORM] Dilute RELDAN 4E with water to give a final concentration of 1% chlorpyrifos-methyl (1/2 pint of product per 6-1/2 gallons of finished spray or 1/2 liter of product per 25 liters of finished spray). Apply finished spray to equipment, wall and floor surfaces at the rate of 1 gallon per 650 to 1250 square feet (946 ml per 60 to 115 square meters) prior to storing or handling grain. Application should be made only after equipment and buildings have been thoroughly cleaned.

(4)
[OLD]TREATMENT OF GRAIN BEING STORED:[NORM] Dilute RELDAN 4E with water or food grade mineral oils and apply to the moving grain stream as a coarse spray to give a deposit of 3 to 6 ppm of chlorpyrifos-methyl on the grain. Final spray volume may vary from 1 to 5 gallons of water per 1000 bushel (0.2 to 1.0 liters per metric ton) of grain. Use the higher dosage if grain is to be stored for longer than 3 months.

(5)
RELDAN 4E is to be applied to stored grains at the following rate per 1000 bushels to provide treatment with 3 or 6 ppm concentrations of chlorpyrifos-methyl:

(6) 3 ppm

- Barley
- ~~Barley~~
- Oats
- Rice
- Sorghum (milo)
- Wheat

(7) fl oz

- 4.6
- 5.4
- 3.1
- 4.3
- 5.4
- 5.8

(CONTINUED)

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* * * * * PENDING APPROVAL * * * * *

THE DOW CHEMICAL COMPANY QUALITY ASSURANCE
LABEL CONFIRMATION COPY PRINTED: 3-DEC-84 PAGE: 4

SPECIFICATION NUMBER: 96382-L1 STYLE: I DESCRIPTION: SPECIMEN LABEL
REQUESTOR: ROSS/PAGE
PRODUCT NAME: RELDAN* 4E

(8) ml

135
160
90.
130
160
170

(9) 6 PPM

(10) fl oz

9.2
10.7
6.2
8.6
10.7
11.5

(11) ml

270
315
180
255
315
340

(12)

RELDAN 4E is to be applied to stored grains at the following rates per 100 metric tons to provide treatment with 3 or 6 PPM concentrations of chlorpyrifos-methyl:

(13) 3 PPM

(14) fl oz

(CONTINUED)

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***** PENDING APPROVAL *****

THE DOW CHEMICAL COMPANY QUALITY ASSURANCE
LABEL CONFIRMATION COPY PRINTED: 3-DEC-84 PAGE: 5

SPECIFICATION NUMBER: 96382-L1 STYLE: I DESCRIPTION: SPECIMEN LABEL
REQUESTOR: ROSS/PAGE
PRODUCT NAME: RELDAN* 4E

20.8

(15) ml

625

(16) 6 ppm

(17) fl oz

41.7

(18) ml

1250

(19) STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

(20)

[BOLD]Product Storage:[NORM] Store in cool, dry location. Do not store in direct sunlight.

(21)

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

(22)

[BOLD]Container Disposal:[NORM] Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities.

(CONTINUED)

DO NOT REUSE THIS COPY

***** FENDING APPROVAL *****

THE DOW CHEMICAL COMPANY QUALITY ASSURANCE
LABEL CONFIRMATION COPY PRINTED: 3-DEC-84 PAGE: 6

SPECIFICATION NUMBER: 96382-L1 STYLE: I DESCRIPTION: SPECIMEN LABEL
REQUESTOR: ROSS/PAGE
PRODUCT NAME: RELDAN* 4E

(23) WARRANTY LIMITATIONS AND DISCLAIMER

The Dow Chemical Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions therein under normal conditions of use. THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT. NO OTHER EXPRESS AND NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL. Therefore, neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), under abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of seller.

When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), buyer or user must promptly notify in writing The Dow Chemical Company of any claims to be eligible to receive either remedy given below. The EXCLUSIVE REMEDY OF THE BUYER OR USER and the LIMIT OF LIABILITY of The Dow Chemical Company or any other seller will be one of the following, at the election of The Dow Chemical Company:

- (1) [BOLD]Refund of purchase price[NORM] paid by buyer or user for product bought, [BOLD]or[NORM]
 - (2) [BOLD]Replacement[NORM] of an unit of product used.
- The seller [BOLD]will not be liable for consequential or incidental damages or losses[NORM].

The terms of this Limit of Warranty and Liability cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations And Disclaimer in any manner.

*Trademark of THE DOW CHEMICAL COMPANY

96382-L1

1184

DOW DIAMOND*

THE DOW CHEMICAL COMPANY
Midland, Michigan 48640 U.S.A.

SPECIMEN LABEL DATE CODE 1184
THIS IS AN INITIAL PRINTING