

62719-43

3-21-2001

1/9

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



OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

March 21, 2001

Dr. John Jachetta
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268-1054

Subject: Reldan 4E
EPA Reg No.: 62719-43
Submission dated Feb 22, 2001

Dear Dr. Jachetta:

The revised labeling referenced to above, submitted in connection with the registration under the Federal Insecticide, fungicide, and Rodenticide Act (FIFRA) as amended, is acceptable provided that you make the labeling changes indicated before you release the product for shipment bearing the amended labeling:

- 1) Under the heading "Application Directions" revise the sentence that states: "This product may only be applied to empty grain bins." to "This product may only be applied to empty grain bins using high-pressure hand held or automated spray equipment."
- 2) Add the following sentence as the last sentence in the paragraph cited in 1 above: "Avoid contact with treated grain until the liquid has dried."

Submit one copy of the revised final printed label before releasing the product for shipment. A stamped copy of the label is enclosed for your records. If you have questions, please contact Dennis McNeilly at (703) 308-6742 or electronically at mneilly.dennis@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Dennis McNeilly".

Dennis McNeilly, Chemist
Insecticide-Rodenticide Branch
Registration Division (7505C)

2/9

(Base label):

(Logo) Dow AgroSciences

Reldan* 4E

Controls Insect Pests Attacking Stored Grains

Active Ingredient:

chlorpyrifos-methyl: O,O-dimethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate 43.2%

Inert Ingredients 56.8%
Total 100.0%

Contains 4 lb chlorpyrifos-methyl per gallon.
Contains xylene range aromatic solvent.

Keep Out of Reach of Children

DANGER

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

MAR 21 2001

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

62719-43

Precautionary Statements

Hazards to Humans and Domestic Animals

Corrosive • Causes Eye And Skin Damage Or Irritation

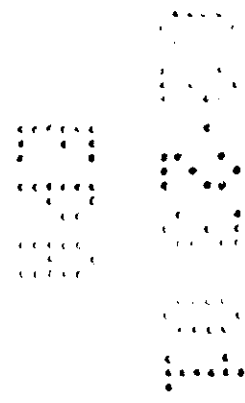
Do not get in eyes, on skin, or on clothing. Do not breathe vapors and spray mist. Keep container closed. Keep away from food, feedstuffs, and water supplies.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

Mixers, loaders, applicators and other handlers must wear long-sleeved shirt and long pants, chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, or Viton), socks, shoes, and protective eyewear.

In addition, applicators applying to empty grain bins must wear a respiratory protection device (NIOSH-approved dust/mist filtering respirator with MSHA/NIOSH approval number TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter). See Engineering Controls for additional requirements. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.



3/9

Engineering Controls

Handlers applying directly to grain or stored seed must use automated admixture system. The system must apply the pesticide directly to the grain or seed and transfer grain or seed directly into stationary storage facilities.

User Safety Recommendations

Users and persons in the treated area should avoid inhalation of treated grain dust.

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

First Aid

If swallowed: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Note to physician: Contains petroleum distillate – vomiting may cause aspiration pneumonia. 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.

Environmental Hazards

Reldan 4E insecticide is toxic to fish, birds, and other wildlife. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge directly or indirectly to surface water. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority.

Physical or Chemical Hazards

Do not use or store near heat or open flame. Do not cut or weld container.

Refer to label booklet for additional precautionary information and Directions for Use.

Notice: Read the entire label. Use only according to label directions. **Before using this product, read "Warranty Disclaimer," "Inherent Risks of Use," and "Limitation of Remedies" at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at www.dowagro.com.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

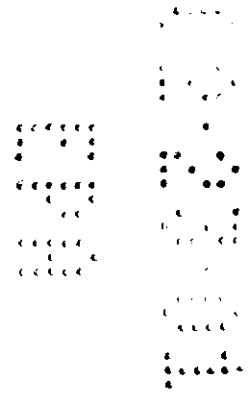
EPA Reg. No. 62719-43

EPA Est. 464-EN-1

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Insecticide

Net Contents XXX



5/9

(Datapack cover):

(Logo) **Dow AgroSciences**

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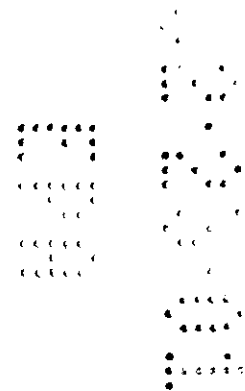
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Insecticide

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6/9

(Page 1 through end):

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7/9

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Physical or Chemical Hazards

Do not use or store near heat or open flame. Do not cut or weld container.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Storage and Disposal

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

Product Storage: Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 90°F for extended periods of time. Store above 40°F (5°C). Storage below 40°F may result in formation of crystals. If product crystallizes, store at 50 to 70°F and agitate to redissolve crystals. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Disposal: 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.

General Information

Reldane 4E is recommended for use to control insect pests attacking stored grains.

Stored Grain: 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, Angoumois grain moth, and lesser grain borer. For optimum results, thoroughly clean and treat grain storage areas prior to storage of grain.

Seed Treatment: For protection of stored seed against injury from stored grain insects listed above. For optimum results, thoroughly clean and treat seed storage areas prior to storage of seed.

Application Directions

Grain Bin and Warehouse: This product may only be applied to empty grain bins. Empty grain bin treatment applications are only permitted from outside of the bin. Only downward spray is permitted. All openings, except for the point of application, must be closed during applications. Do not enter or allow others to enter until sprays have dried.

Dilute Reldan 4E insecticide 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

8/9

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.

Treatment of Grain Being Stored: Direct grain treatment may only be made using an automated system.

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.

Reldan 4E is to be applied to stored grains at the following rates per 1000 bushels to provide treatment with 3 to 6 ppm concentrations of chlorpyrifos-methyl:

	3 ppm		6 ppm	
	fl oz	ml	fl oz	ml
Barley	4.6	135	9.2	270
Oats	3.1	90	6.2	180
Rice	4.3	130	8.6	255
Sorghum (milo)	5.4	160	10.7	315
Wheat	5.8	170	11.5	340

Reldan 4E is to be applied to stored grains at the following rate per 100 metric tons to provide treatment with 3 to 6 ppm concentrations of chlorpyrifos-methyl:

3 ppm		6 ppm	
fl oz	ml	fl oz	ml
20.8	625	41.7	1250

Terms and Limitations of use

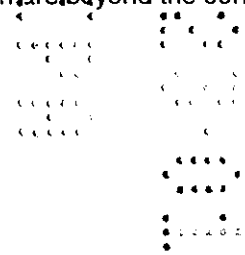
If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.

Warranty Disclaimer

Dow AgroSciences 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, subject to the inherent risks set forth below. Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.



9/9

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow AgroSciences' election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer and Inherent Risks of Use above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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