

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

481-575

DATE OF ISSUANCE

2/8/89

TERM OF ISSUANCE

NOTICE OF PESTICIDE: REGISTRATION
 Reregistration

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

NAME OF PESTICIDE PRODUCT

1,1-Dichloro-2,2-bis(4-chlorophenyl)ethane

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

1,1-Dichloro-2,2-bis(4-chlorophenyl)ethane, Inc.
Agricultural Products Division
P.O. Box 1003
Washington, DC 20001

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 endorsement 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 FIFRA section 3(c)(5)(A) and (B) provided that you:

1. Submit the following information and/or data:

- a. An anaerobic soil metabolism study using radiolabeled material with labeling on the triazine moiety must be conducted.
- b. A lysimeter study to determine leaching potential. This study must include a scenario to cover any agricultural practices associated with soybeans culture that may increase the likelihood of groundwater contamination, i.e., irrigation effects.

2. If necessary, you will submit/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.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Robert J. Saylor

DATE

4/28/89

EPA FORM 8570-8 (REV. 8-77)

11-0-KINCO

PREVIOUS EDITION MAY BE USED UNTIL SUPPLY IS EXHAUSTED.

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

This information should be submitted to:

Program Coordination Branch
Registration Division (H7504C)
Environmental Protection Agency
Washington, DC 20460

4. You will add the phrase "EPA Registration No. 352-525" to your label before you release the product for shipment.

5. You will submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e).

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

Robert J. Taylor
Product Manager (25)
Fungicide-Herbicide Branch
Registration Division (H7504C)

Enclosures

ACCEPTED
 APR 28
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 352-525

STORAGE AND DISPOSAL
STORAGE: Store product in original container only, away from other pesticides, fertilizer, food or feed.
DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

THIS PRODUCT PRODUCED AT THE MANUFACTURING LOCATION INDICATED BELOW.
 Du Pont Experimental Station, DE
 Du Pont France, Cernay
 Van Diest Supply Co., IA

① ⑦ (AD)
 EPA Est. 352 DE 1 11773-1A 1 33979 FR 1
 Superscript used is first letter of batch number
 AG 3937 8/28



SAMPLE — NOT FOR SALE
 SEE ACCOMPANYING DIRECTIONS FOR USE
DRY FLOWABLE Net 5 oz
 E. I. DU PONT DE NEMOURS & CO. (INC.)
 AGRICULTURAL PRODUCTS DEPT. WILM., DE

IMPORTANT
 Injury to or loss of desirable trees or vegetation may result from failure to observe the following. Do not apply or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water. Thoroughly clean all traces of Du Pont "Pinnacle" Herbicide from application equipment immediately after use. (Refer to sprayer cleanup section of this label and the referenced supplemental bulletin.)

Read and follow the attached labeling for the efficient and safe use of Du Pont "Pinnacle" Herbicide.

NOTICE TO BUYER. Purchase of this material does not confer any rights under patents of countries outside of the United States.

DU PONT Pinnacle
 HERBICIDE DRY FLOWABLE
 ACTIVE INGREDIENT
 Methyl 3-(4-methoxy-6-methyl-1,3,5-2-pyrimidinocarbonylamino)sulfonyl-2-thioethercarboxylate
 INERT INGREDIENTS
 U.S. Pat. 4,451,325 EPA

KEEP OUT OF REACH OF CHILDREN. PRECAUTIONARY STATEMENT. HAZARDS TO HUMANS AND DOMESTIC ANIMALS.
CAUTION
 Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes or clothing. Wash thoroughly with water after handling.
STATEMENT OF PRACTICAL TREATMENT:
 If in eyes: Flush eyes with plenty of water. Call a physician if irritation persists.
 If on skin: Wash with plenty of soap and water.
 For medical emergencies involving this product, call 1-800-441-7637.
ENVIRONMENTAL HAZARDS:
 Do not apply directly to water or to swamps, bogs, marshes and potholes. Do not contaminate water by cleaning of equipment or disposal of wastes.

KEEP OUT OF REACH OF CHILDREN

CAUTION**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION! Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

If on skin: Wash with plenty of soap and water.

For medical emergencies involving this product, call toll free 1-800-441-3637.

ACCEPTED

APR 28 1988

Under the Federal Insecticide,
Fungicide and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 352-525

ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Do not contaminate water by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE

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

"Pinnacle" Herbicide should be used only in accordance with recommendations on this label or in separately published Du Pont recommendations.

Du Pont will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by Du Pont.

IMPORTANT

Injury to or loss of desirable trees or vegetation may result from failure to observe the following:

Do not apply or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.

Do not use on lawns, walks, driveways, tennis courts or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water. Thoroughly clean all traces of Du Pont "Pinnacle" Herbicide from application equipment immediately after use. (Refer to sprayer cleanup section of this label and the referenced supplemental bulletin.)

Du Pont "Pinnacle" Herbicide is a dispersible granule formulation to be mixed with water and sprayed broadcast for selective postemergence weed control in soybeans.

Spray Tank Preparation

"Pinnacle" should be thoroughly mixed with water in the spray tank before adding any other material (e.g. surfactant, crop oil concentrate or nitrogen fertilizer). Use a minimum of 10 gallons of water per acre for ground application and a minimum of 5 gallons per acre for aerial application. Agitation is required for uniform mixing and application. Apply "Pinnacle" spray preparation within 24 hours of product mixing or product degradation may occur. Thoroughly reaggregate before using if allowed to settle.

Application Recommendation

"Pinnacle" can be applied anytime after the first trifoliate soybean leaf has fully expanded up to 60 days before soybean harvest.

Application should be made by ground or air to young actively growing weeds.

Applications of "Pinnacle" must include a surfactant at rates of 0.125% v/v (1 pt. per 100 gallons). Use only EPA approved surfactants authorized for use on food crops. Use a good surfactant of at least 80% active ingredient. The addition of liquid nitrogen fertilizer at the rate of 1 gallon per acre is required for control of certain species.

Ground Application

Use flat fan nozzles at 25-40 psi or hollow cone nozzles at 40-60 psi. Adjust the boom height for good weed coverage. Use a minimum of 10 gallons of water per acre.

Aerial Application

Use orifice discs, cores and nozzle types and arrangements that will provide for optimum spray distribution and maximum coverage at 5 to 10 GPA. Do not apply during inversion conditions, when winds are gusty, or when other conditions will favor poor coverage and/or off target spray movement. Use a minimum of 5 gallons of water per acre.

NOTE: Do not apply this product through any type of irrigation system.

Application Rate

Use 1/4 ounce "Pinnacle" per acre.

Weeds Controlled:

Lambsquarters
Pigweed spp
Smartweed, annual
Velvetleaf*

Weeds Suppressed:

Cocklebur
Jimson weed
Wild Sunflower

Tank Mix Application With "Classic" Herbicide

"Pinnacle" can be tank mixed and applied with "Classic" herbicide to improve control of certain broadleaf weeds. "Classic" rates to be used with "Pinnacle" and recropping restrictions are limited by soil pH.

(1) Soil pH 7.2 or less:

"Pinnacle" 1/4 ounce per acre plus "Classic" 1/4 ounce per acre

Weeds Controlled:

Lambsquarters
Smartweed, annual
Pigweed, spp
Velvetleaf*
Cocklebur
Wild Sunflower
Jimsonweed
Mustard

Weeds Suppressed:

Morningglory
Entireleaf
Ivyleaf
Pitted
Smallflower
Tail
Common Ragweed

(2) Soil pH 7.2-7.6:

"Pinnacle" 1/4 ounce per acre plus "Classic" 1/6 ounce per acre

Weeds Controlled:

Lambsquarters
Smartweed, annual
Pigweed, spp
Velvetleaf*
Cocklebur
Wild Sunflower

Weeds Suppressed:

Common Ragweed
Jimsonweed
Mustard

IMPORTANT: DO NOT USE "PINNACLE" PLUS "CLASSIC" TANK MIX ON SOILS ABOVE PH 7.6

*Requires the addition of 1 gallon of liquid nitrogen fertilizer per acre to the spray solution

Weed suppression is a visual reduction in weed competition (reduced population, size, and/or vigor) as compared to an untreated area. Degree of control can be increased by treating weeds when actively growing (not under stress).

NOTE: Do not allow spray to drift onto adjacent crops or land, as injury to plants other than soybeans, wheat or barley will likely occur. When spraying close to adjacent crops or plants, do everything possible to reduce the occurrence of off target spray movement such as:

- Increase spray volume (minimum 10 GPA by air, 20 GPA by ground).
- Use lower spray pressure (but not less than 20 psi).
- Add an appropriate drift control agent.
- Stop spraying if wind speed becomes excessive.

Crop Rotation

Any crop may be planted 45 days after the application of "Pinnacle" applied alone.

Rotational Crop Guidelines for "Pinnacle" Plus "Classic" Tank Mixes

Crop:	Rotational Interval In Months:
Soybeans	Anytime
Cereal Grains	3
Ryegrass	3
Field Corn	9
Cotton	9
Alfalfa	9
Clover	9
Dry Beans	9
Soybean	9
Peanut	9
Rice	9
Tobacco (transplant)	9
Tomato (transplant)	9

All other crops require a successful field bioassay**. Suggested time before initiating the bioassay is 9 months.

** Field Bioassay- The season before planting any crop not listed above, a successful field bioassay must be completed. The field bioassay will detect small quantities of "Classic" which can remain in the soil and injure rotational crops. A successful field bioassay means growing to maturity the crop(s) intended for production the following year. The test strip should cross the whole field including knolls and low areas.

SPRAYER CLEANUP

To avoid subsequent injury to crops other than soybeans immediately after spraying and prior to spraying other crops, thoroughly remove all traces of "Pinnacle" from mixing and spray equipment as follows:

1. Drain tank, then flush tank boom and hoses with clean water for a minimum of 10 minutes.
2. Fill the tank with clean water then add 1/2 gallon chlorine bleach (containing 5 1/4% sodium hypochlorite) per 100 gallons of water. Flush solution through boom and hoses, then allow to sit for 15 minutes with agitation, then drain.
3. Repeat Step 2.
4. Nozzles and screens should be removed and cleaned separately. To remove traces of chlorine bleach, rinse the tank thoroughly with clean water and flush through hoses and boom.

Large Sprayers:

CAUTION: Do not use chlorine bleach with ammonia. All traces of liquid fertilizer containing ammonia, ammonium nitrate or ammonium sulfate must be rinsed with water from the mixing and application equipment before adding chlorine bleach solution. Failure to do so will release a gas with a musty chlorine odor which can cause eye, nose, throat and lung irritation. Do not clean equipment in an enclosed area.

PRECAUTIONS

Do not graze or feed forage, hay or straw from treated areas to livestock.

STORAGE AND DISPOSAL

STORAGE: Store product in original container only, away from other pesticides, fertilizer, food or feed.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Waste 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) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NOTICE OF WARRANTY

Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. **DU PONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**