



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

JUN 17 1993

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Dear Registrant:

Subject: Label Amendment Submission of 5/4/93 in Compliance with the
PR Notice 93-7
ERADICANE 25 G Selective Herbicide, EPA Reg. No. 10182-323

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is accepted subject to the comments listed below. Five copies of the finished labeling must be submitted prior to releasing the product for shipment.

Based on your certification, the Agency has accepted only those changes to your labeling which are necessary to comply with PR Notice 93-7, which reflects the WPS labeling requirements of 40 CFR part 156, subpart K. Any changes to the labeling submitted in connection with this amendment application not directly related to compliance with PR Notice 93-7 were not reviewed and have not been accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, acceptance of this labeling amendment does not affect the suspension in any way.

We wish to remind you that on your final printed label the "Agricultural Use Requirements" text and the "User Safety Recommendations" text must be shown in boxes on the label. Each of these texts must be shown in a clearly separate box on the product label. The boxes will be delineated with lines or other graphic indicators, or possibly with background shading or coloring to readily distinguish them from other text on the label.

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

Sincerely,

Thomas Adamczyk, Deputy Chief
Fungicide-Herbicide Branch
Registration Division (H7505W)

Enclosure



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 60% recycled fiber

ERADICANE® 25-G
Selective Herbicide

**A Selective Granular Preplant Incorporated Herbicide for
Weed Control in Field, Pop, Sweet, and Silage Corn**

| | |
|-------------------------------------|---------------|
| ACTIVE INGREDIENT: | |
| S-ethyl dipropylthiocarbamate | 25.0% |
| INERT INGREDIENTS: | 75.0% |
| Total | 100.0% |

Contains 25 pounds of active ingredient per 100 pounds.

EPA Reg. No. 10182-323
EPA Est. No. 10182-

Net Contents:

KEEP OUT OF REACH OF CHILDREN

CAUTION

with G-10182-323
in EPA Reg. No. 10182-323
6/17/93
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended for the protection
of man and the environment
10182-323

Made in U.S.A.
ZENECA Ag Products
ZENECA Inc.
Wilmington, DE 19897

STATEMENT OF PRACTICAL TREATMENT

FIRST AID

Immediately start the procedures given below. If further treatment is required, contact a Poison Control Center, a physician, or the nearest hospital.

IF SWALLOWED: Immediately give several glasses of water and induce vomiting by placing a finger on the back of the victim's tongue. Give fluids until vomitus is clear. Do not give anything by mouth to an unconscious or convulsing person.

IF IN EYES: Flush with plenty of water. Call a physician if irritation persists.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing give artificial respiration, preferably by mouth-to-mouth. Get medical attention.

**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D
(327-8633)**

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC
1-800-424-9300.**

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

HARMFUL IF SWALLOWED. Harmful if inhaled or absorbed through skin. Causes eye irritation. Avoid breathing dust. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. ~~Remove contaminated clothing and wash before reuse.~~

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- 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.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, swamps, bogs, marshes or potholes. Do not contaminate water when disposing of equipment washwater or rinsate.

PHYSICAL AND CHEMICAL HAZARDS

Keep away from heat and flame. ~~Do not apply this product in such a manner as to directly or through drift expose workers or other persons.~~

BEST AVAILABLE COPY

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protection equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

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GENERAL INFORMATION

ERADICANE® 25-G selective herbicide is a selective soil applied herbicide which must be mixed or incorporated into the soil for control of weeds listed on this label.

ERADICANE 25-G controls weeds by interfering with normal germination and seedling development. ERADICANE 25-G will not control established or germinated weeds present at application.

GENERAL USE PRECAUTIONS

- Read all label directions before using.
- ERADICANE 25-G should be used for recommended purposes and at recommended rates. Do not overdose.
- ERADICANE 25-G is recommended for use only on mineral soils (those soils containing less than 10% organic matter).

- ERADICANE 25-G should not be used on corn seed stock such as Breeders, Foundation, or Increase.
- ERADICANE 25-G can be used on production seed corn.
- Do not use ERADICANE 25-G on sorghum or milo.
- Do not allow ERADICANE 25-G to contaminate water to be used for domestic purposes or on susceptible crops and ornamentals.
- Do not allow ERADICANE 25-G to contaminate feed or food.
- ERADICANE 25-G should not be stored near seeds or fertilizers.
- All containers of ERADICANE 25-G should be kept tightly closed when not in use.
- ERADICANE 25-G will not harm the treated crop nor leave harmful soil residues past harvest when applied properly and environmental conditions exist for normal plant growth during the season.
- Adverse conditions such as unusually cold and wet or hot and dry weather during germination and early growth; insect, nematode or plant disease attack; carryover soil residues of persistent herbicides or use of certain soil applied systemic insecticides can create abnormal conditions that weaken crop seedlings. ERADICANE 25-G used under these conditions could result in crop injury.
- Continuous use of ERADICANE 6.7-E or ERADICANE 25-G in the same fields consecutively year after year can in some areas lead to a decrease in the level of performance. As a precaution, ERADICANE 6.7-E or ERADICANE 25-G treated fields should be rotated with another crop or herbicide classification on an annual program.
- Do not apply ERADICANE 25-G if wind speed is greater than 25 mph. Spread patterns may be affected by high wind leading to reduced weed control.

APPLICATION DIRECTIONS

- **Dry bulk fertilizer** - ERADICANE 25-G may be mixed with dry bulk fertilizer and applied before planting as the fertilizer is spread. See Appendix I.
 - Bulk fertilizer mixed with ERADICANE 25-G should be applied immediately, not stored.
 - It is recommended that all bulk containers be tightly covered while the product is being transported and applied to reduce probability of ERADICANE 25-G loss via volatilization.
 - ERADICANE 25-G and fertilizer must be incorporated on the same day as applied.
- **Banded after planting** - ERADICANE 25-G may be applied in a band following planting. Use standard planter attached equipment designed for band application of granular herbicides. Apply and incorporate in the same operation using equipment that attaches to the back of the applicator and incorporates 1 to 1-1/2 inches deep.

Soil Moisture and Tillth:

- Improper incorporation or poor soil tillth may result in erratic or unsatisfactory weed control.
- The soil should be dry enough to permit good soil mixing and incorporation.
- Any application of ERADICANE 25-G that is not incorporated immediately must be made to a soil surface dry to at least ½ inch deep and free from dew and incidental moisture.

Incorporation Timing:

- ERADICANE 25-G mixed with dry bulk fertilizer must be incorporated on the same day as application. See moisture statement above.

Incorporation Equipment and Methods:

- ERADICANE 25-G must be incorporated into the soil to prevent loss of the herbicide. Thorough soil mixing is necessary.

Field cultivator

- Use on all soils which are in good tillth.
- Equip with 3 to 4 rows of sweeps spaced at 7 inches or less and staggered from row-to-row to leave no soil unturned or undisturbed. Do not use chisel plows or points.
- Set the field cultivator to cut 4 to 6 inches deep.
- Operate at 5 MPH or more.
- Follow by a harrow or leveling device.
- Two passes in different directions will improve incorporation.
- If deep germinating weeds or nutsedge are present, a second incorporation will improve control or suppression.

Tandem disc

- Use on all soil types.
- Set disc to cut 4 to 6 inches deep.
- Operate disc at 4 to 6 MPH.
- Follow disc by a harrow or leveling device slightly wider than disc.
- Two passes in different directions will improve incorporation.
- On the second pass the disc should be operated no deeper than on the first pass.
- If deep germinating weeds or nutsedge are present, a second incorporation will improve control or suppression.

Power driven cultivation equipment

- Soil should have previous primary tillage.
- Ground speed must be adjusted with PTO driven cultivation tools to ensure thorough incorporation.
- Set horizontal action tine equipment to cut 4 to 6 inches deep.
- Set vertical action tine equipment to cut 3 to 4 inches deep.

Planting:

- Plant as soon as possible after application and always within 2 weeks after treatment.

- Plant seed to a maximum depth of 2 inches.
- Avoid moving or shaping soil after incorporation since this can remove ERADICANE 25-G from the row and result in a loss of weed control.

Cultivation:

- If grasses or weeds develop, a shallow cultivation or rotary hoe will generally result in better weed control.
- A shallow cultivation is less than ½ the depth of incorporation.
- If weeds are controlled, delay cultivation as long as possible.

Weeds Controlled and Use Rates:

- Consult Tables 1 and 2 below for comments and restrictions.
- NOTE: All rates expressed as broadcast rates per acre. For band applications, reduce rates proportionately depending upon row spacing and band width to be treated.
- The annual broadleaf weeds below will be controlled only if treatment is made when conditions are favorable for weed seed germination and growth. Under prolonged conditions of very cold soil, control of the listed broadleaf weeds may not be adequate. Use follow-up chemical or cultural alternatives to enhance or prolong broadleaf weed control.

Table 1.
BROADCAST RATE POUNDS PER ACRE

| ANNUAL GRASS AND BROADLEAF WEEDS | SCIENTIFIC NAME | ALL REGIONS | COMMENTS AND R |
|---|--------------------------------|--------------------|---|
| Barnyardgrass | <i>Echinochloa crusgalli</i> | 16 to 24 | GENERAL Use lower rate for light infestations and textured soils. |
| Carpetweed | <i>Mollugo verticillata</i> | 16 to 24 | |
| Crabgrass | <i>Digitaria</i> spp. | 16 to 24 | REGIONAL: USE ONLY IN THE STATE REGION |
| Foxtail, giant | <i>Setaria faberii</i> | 16 to 24 | |
| Foxtail, green | <i>Setaria viridis</i> | 16 to 24 | |
| Foxtail, yellow | <i>Setaria lutescens</i> | 16 to 24 | NORTHEAST: (Wisconsin, Michigan, Kentucky, eastern Tennessee, Virginia, Delaware, New Jersey, Pennsylvania, Massachusetts, Rhode Island, Vermont) |
| Goosegrass | <i>Eleusine indica</i> | 16 to 24 | |
| Lambsquarters, common ¹ | <i>Chenopodium album</i> | 16 to 24 | MIDWEST: (eastern Montana, North Wyoming, Colorado, Nebraska, Kansas) On the western slope of Colorado, do in the three-leaf stage. |
| Nightshade, black ¹ | <i>Solanum nigrum</i> | 16 to 24 | |
| Panicum, fall | <i>Panicum dichotomiflorum</i> | 16 to 24 | SOUTH: (Texas, Oklahoma, North Carolina, Alabama, Louisiana, Mississippi) |
| Pigweed | <i>Amaranthus</i> spp. | 16 to 24 | |
| Purslane, common | <i>Portulaca oleracea</i> | 16 to 24 | WESTERN: (Oregon, Washington, Idaho) Soils lacking enough moisture for seed preirrigated prior to ERADICANE 25-G |
| Sida, prickly (Teaweed) ¹ | <i>Sida spinosa</i> | 16 to 24 | |

¹Suppression or partial control only.

Table 2.
BROADCAST RATE POUNDS PER ACRE

| PERENNIAL WEEDS | SCIENTIFIC NAME | ALL REGIONS ¹ | COMMENTS AND RESTRICTIONS |
|-------------------------------|---------------------------|--------------------------|---------------------------|
| Nutsedge, yellow ² | <i>Cyperus esculentus</i> | 24 lbs. | Suppression only. |

¹Consult Table 1 for general comments, states and other restrictions for each region listed.

²Suppression or partial control only.

Yellow nutsedge must be turned under and chopped up thoroughly prior to treatment.

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APPENDIX I

Blending with Dry Bulk Fertilizers

- ERADICANE 25-G may be mixed with dry bulk fertilizer.
- All individual state regulations relating to dry bulk fertilizer blending, registration, labeling, and application are the responsibility of the individual and/or company selling the herbicide and fertilizer mixtures.

**Table 3.
 APPROVED DRY BULK FERTILIZER INGREDIENTS FOR USE WITH
 ERADICANE 25-G ALONE.**

| FERTILIZER INGREDIENT | N | P | K |
|------------------------------|----------|----------|----------|
| Ammonium phosphate-sulfate | 21 | 0 | 0 |
| Diammonium phosphate | 18 | 46 | 0 |
| Potassium chloride | 0 | 0 | 60 |
| Potassium sulfate | 0 | 0 | 52 |
| Single Super-phosphate | 0 | 20 | 0 |
| Triple Super-phosphate | 0 | 46 | 0 |
| Urea* | 45 | 0 | 0 |
| Ammonium phosphate-sulfate | 16 | 20 | 0 |
| K-Mag/Sul-Po-Mag | 0 | 0 | 21 |
| Monoammonium phosphate | 11 | 48 | 0 |

*Some ureas may be phytotoxic when high rates are applied to corn. Use only urea rates known to be safe for corn application.

- Uniform applications in the field are necessary to assure good results.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Keep away from heat and flame.

STORAGE: Keep container tightly closed when not in use. Do not store near seed, fertilizers, or foodstuffs. Can be stored at temperatures as low as minus 50°F.

PESTICIDE DISPOSAL: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product.

CONDITIONS OF SALE AND LIMITED WARRANTY:

The Directions for Use of this product are believed to be reliable and should be followed carefully. However, 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 timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended or other influencing factors in the use of the product, all of which are beyond the control of the seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label, subject to the inherent risks referred to above, when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller and Buyer and User assume the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY.

When Buyer or User claims 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 Seller of any claims to be eligible to receive either of the remedies set forth below. The EXCLUSIVE REMEDY OF BUYER OR USER and the LIMIT OF LIABILITY of Seller will be, at the election of Seller, refund of the purchase price paid for product bought, or replacement of amount of product used. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

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