

SEP 14 1998

Mr. Thomas J. Parshley
Novartis Crop Protection, Inc.
P.O. Box 18300
Greensboro, NC 27419-8300

Dear Mr. Parsnley:

Subject: Evital 5G
EPA Registration No. 100-840
Application and Letter Dated April 28, 1998, Request
To Amend Registration, Submission of Acute Toxicity
Data, EPA MKID Nos. 445495-01 Thru 445495-07

The proposed labeling of the subject pesticide product registration has been reviewed and found acceptable under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, provided that you:

1. Revise the Precautionary Statements and the Statements of Practical Treatment on the proposed label to reflect the enclosed review of the subject acute toxicity data.
2. Submit one (1) copy of your final printed label prior to releasing this product for shipment under the subject labeling.

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

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

Sincerely yours,

Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505C)

enclosures (2)

CONCURRENCES

SYMBOL	E. Wilson:	Diskette,	Metolachlor:	09-14-98			
SURNAME							
DATE							

(Master Label)

Evital® 5G

A GRANULAR HERBICIDE

For the control of certain annual and perennial weeds in
cranberries and alfalfa

Active Ingredient:

Norflurazon: [4-chloro-5-(methylamino)-2- (α, α, α -trifluoro- <i>m</i> -tolyl)-3-(2 <i>H</i>)-pyridazinone]	5.0%
Inert Ingredients:	95.0%
Total:	100.0%

50 POUNDS
NET WEIGHT

EPA Reg. No. 100-840
EPA Est. 39578-TX-1

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See back panel for additional precautionary statements.

NCP 840A-L1 0498

ACCEPTED
with COMMENTS
In EPA Letter Dated
SEP 14 1998
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
100-840

3/9

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire **Directions for Use** and the **Conditions of Sale and Warranty** before using this product. If terms are unacceptable, return the unopened product container at once.

CONDITIONS OF SALE AND WARRANTY

The **Directions for Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with 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 Novartis Crop Protection, Inc. or the Seller. All such risks shall be assumed by the Buyer.

Novartis warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use** subject to the inherent risks referred to above. **Novartis makes no other express or implied Warranty of Fitness or Merchantability or any other express or implied warranty.** In no case shall Novartis or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this Product. Novartis and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing **Conditions of Sale and Warranty**, which may be varied only by agreement in writing signed by a duly authorized representative of Novartis.

No end use of this product other than manufacturing is intended or implied by the above **Conditions of Sale and Warranty.**

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APPLICATION RATES PER ACRE

80-120 lbs.	120-160 lbs.	160 lbs.
Barnyardgrass Needlegrass Rice cutgrass (Sicklegrass) Smoke grass	Broomsedge Bog rush Fall panicum Little bluestem (Poverty grass) Nutsedge (<i>Cyperus dentatus</i>) Red root Redtop grass Spike rush Summer grass	Stargrass Switchgrass Woolgrass

The rate of application will depend on many factors. Several are listed below.

Use Lower Rates Where One or More of the Following Exist:	Use Higher Rates Where One or More of the Following Exist:
Open, sanded, well-maintained bogs	A mat of vine and weed stems overlay the soil
Sprinkler irrigation	No sprinkler irrigation
Sandy soils, low in organic matter	Peat soils, high in organic matter
Perennial weed seedlings and young plants	Established perennial weed clumps
Stressed cranberry plants and sensitive varieties (Stevens and McFarlin)	Vigorous cranberry plants

NOTE: The following rates per acre should not be exceeded in any one year:

In a Newly Planted Bog	In an Established Bog
80 lbs.	160 lbs.

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 protective 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.

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

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

ALFALFA

Use Precautions

Evital 5G is only recommended for preemergent weed control in established alfalfa; do not apply to seedling alfalfa earlier than 5 months following emergence.

Do not apply Evital 5G within 28 days of harvest.

Soil disturbances, such as rodent burrowing and fire ant mounding, may result in temporary bleaching or reduced growth in alfalfa treated with Evital 5G.

Do not apply to alfalfa planted with small grain or grass companion cover unless injury to the companion crop is acceptable. Alfalfa seed germinating after Evital 5G is activated in the soil will not become established.

Application Timing and Rates

Evital 5G may be applied to healthy stands of established alfalfa at 20 lbs./A no earlier than 5 months following emergence. An additional 20 lbs./A may be applied later in the first crop year to extend late season weed control.

Application in each of the following crop years may be made at 20-40 lbs./A depending upon weed pressure, soil texture, and cultural practices:

Use the lower rate on coarse soils (sand, loamy sand, sandy loam) and when low populations of easily controlled annual weeds are expected.

- Use the higher rate on medium- to fine-textured soils (sandy clay through clay) and when heavier weed pressure is expected. The 40 lb. maximum annual rate may be applied in a single application or in split applications.
- Do not apply more than 40 lbs./A per crop year.

Incorporation by rainfall or irrigation is necessary to activate Evital 5G in soil before weed seeds germinate and emerge. A minimum of one inch of rainfall or irrigation is necessary to incorporate Evital 5G.

Application may be made during dormancy, as long as soil is not frozen, or in actively growing stands. Application should always follow mowing and removal of hay to ensure spray reaches the soil surface. In areas which have less than 15 inches annual moisture (rainfall and snow combined) or less than 4 inches spring rainfall, fall or winter applications are recommended.

Evital 5G will not control emerged weeds. Established weeds or weeds that emerge before activation may be controlled with postemergent herbicides that bear labeling for use in the culture of alfalfa.

Weeds Controlled

Evital 5G applications in alfalfa will control or suppress germinating seed of weed species listed below:

- **Controlled:** Cheat, Annual Bluegrass, Chickweed, Shepherdspurse, Downy Brome, Italian Ryegrass.
- **Suppressed:** Sandbur, Henbit

Rotational Crop Restrictions

For 16 months following the last application of Evital 5G, treated acreage may only be rotated to cotton, soybeans, peanuts, or asparagus. Soybeans and peanuts may show pigment loss (bleaching in leaf veins) and/or stand reduction in TX (west of I-35), southwest OK, and NM if planted within 16 months following the last Evital 5G application.

Special rotational instructions for AZ or CA: Soils containing more than 65% sand should be bioassayed prior to crop rotation. Rotational crops may be planted when no signs of phytotoxicity (bleaching or pigment loss in veins) are observed in bioassay plantings for 4 months following emergence.

Alfalfa stands treated with Evital 5G should be irrigated as in normal production the year prior to rotation in AZ and CA.

CRANBERRIES

Apply Evital 5G as a single application in the early spring after removal of winter flood and before weed growth resumes or in the fall after harvest at least 2 weeks before winter flood. Only one application of Evital 5G per year (12 months) can be made.

Apply Evital 5G granules with any suitable calibrated ground or aerial equipment to ensure uniform coverage.

Flooding after application may reduce weed control.

Injury to the cranberry plant may occur where applications overlap or where water stands in low wet areas of a treated bog.

STORAGE AND DISPOSAL

Storage

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

Completely empty bag into applicator 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.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if absorbed through skin. Avoid contact with skin 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. Get medical attention if irritation persists.

Note to Physician: If ingested, induce emesis or lavage stomach. Treat symptomatically.

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.

Engineering Control Statements

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 clothing 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.

Environmental Hazards

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate streams, ponds, or watershed areas with unused materials, or with hopper washings when cleaning equipment.

Evital 5G® trademark of Novartis

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Novartis Crop Protection, Inc.
Greensboro, North Carolina 27419
NCP 840A-L1A 0498

July 25, 1997

Revised: April 27, 1998

EVITALZ [M-LABELS-E] - 4/28/98 - ccg