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Systems Integration Group, Inc.



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
100-840

Date of Issuance:
MAY 12 1999

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance:
Unconditional

Name of Pesticide Product:
EVITAL 5G

Under FIFRA, as amended:

Name and Address of Registrant (include ZIP Code):
Novartis Crop Protection, Inc.
P.O. Box 18300
Greensboro, NC 27419

Note: Changes in labeling 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 EPA registration number.

In the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the 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.

Based on your response to the Reregistration Eligibility Document, EPA has reregistered the product listed above. Enclosed is a copy of your label stamped "Accepted". This action is taken under the authority of section 4(g)(2)(C) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain registration of your product.

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

Enclosure

Signature of Approving Official:

Date:

MAY 12 1999

WJ Cooke
5-12-99

(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-(2H)-pyridazinone	5.0%
<hr/>	
Inert Ingredients:	95.0%
<hr/>	
Total:	100.0%

50 POUNDS
NET WEIGHT

ACCEPTED
with COMMENTS
In EPA Letter Dated
MAY 12 1999

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

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
100-840

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See back panel for additional precautionary statements.

NCP 840A-L1 (DRAFT)

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 not acceptable, 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.

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.

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

SPECIFIC ALFALFA DIRECTIONS

Evital 5G can be used for weed control in alfalfa in the states of AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NV, OK, OR, SC, TN, TX, WA, and the portions of CO, KS, and MO south of I-70.

Use Precautions

Evital 5G is only recommended for preemergent weed control in established alfalfa; do not apply to seedling alfalfa until it has emerged and been actively growing for 5 months.

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, do not apply to seedling alfalfa until it has emerged and been actively growing for 5 months. 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 calendar 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 calendar 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:

Control the following weeds:

Common Name	Scientific Name
Anoda, Spurred (Cottonweed)	<i>Anoda cristata</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>
Bluegrass, Annual	<i>Poa annua</i>
Brome, Downy	<i>Bromus tectorum</i>
Carpetweed	<i>Mullugo verticillata</i>
Cheat	<i>Bromus secalinus</i>
Chickweed	<i>Stellaria media</i>
Crabgrass	<i>Digitaria</i> spp.
Croton, Tropic	<i>Croton glandulosus</i>
Flixweed	<i>Descurania sophia</i>
Foxtails	<i>Setaria</i> spp.
Goosegrass*	<i>Eleusine indica</i>
Johnsongrass (seedling)	<i>Sorghum halepense</i>
Junglerice	<i>Echinochloa colona</i>
Mustards	<i>Brassica</i> spp.
<i>Panicum</i> spp.	<i>Panicum</i> spp.
Pigweeds	<i>Amaranthus</i> spp.
Purslane	<i>Portulaca oleracea</i>
Pusley, Florida	<i>Richardia*scabra</i>
Rescuegrass	<i>Bromus catharticus</i>
Ryegrass, Italian (Annual Ryegrass)	<i>Lolium multiflorum</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Sida, Prickly	<i>Sida spinosa</i>
Signalgrass	<i>Brachiaria platyphylla</i>
Velvetleaf	<i>Abutilon theophrasti</i>

*Including dinitroaniline (DNA)-tolerant goosegrass

Suppressing the following weeds:

Common Name	Scientific Name
Beggarweed, Florida	<i>Desmodium tortuosum</i>
Bermudagrass	<i>Cynodon dactylon</i>
Cocklebur, Common	<i>Xanthium strumarium</i>
Fiddleneck	<i>Amsinckia intermedia</i>
Groundsel	<i>Senecio vulgaris</i>
Henbit	<i>Lamium amplexicaule</i>
Johnsongrass (rhizome)	<i>Sorghum halepense</i>
Kochia	<i>Kochia scoparia</i>
Mallow, Venice	<i>Hibiscus trionum</i>
Malva	<i>Malva</i> spp.
Morningglory	<i>Ipomoea</i> spp.
Nutsedge, Yellow	<i>Cyperus esculentus</i>
Nutsedge, Purple	<i>Cyperus rotundus</i>
Ragweed, Common	<i>Ambrosia artemisiifolia</i>
Sage, Lanceleaf (Mintweed)	<i>Salvia retroflexa</i>
Sandbur	<i>Cenchrus</i> spp.
Senna, Coffee	<i>Cassia occidentalis</i>
Sesbania, Hemp	<i>Sesbania exaltata</i>
Sicklepod	<i>Cassia obtusifolia</i>
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>
Sowthistle	<i>Sonchus oleracea</i>
Spurge, Spotted	<i>Euphorbia maculata</i>
Thistle, Russian	<i>Salsola iberica</i>

Rotational Crop Restrictions

Soils with less than 65% sand in AZ and CA and all soils in AL, AR, FL, GA, LA, MS, NC, NM, OK, SC, TN, TX, and the portions of CO, KS, and MO south of I-70 treated with Evital 5G may only be rotated to cotton, soybean, peanut, or asparagus within 16 months after application. Soybean and peanut 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 last Evital 5G application.

Soils with 65% sand or more in AZ and CA and all soils in ID, NV, OR, and WA treated with Evital 5G may only be rotated to cotton, soybean, peanut or asparagus within 16 months with a minimum of two summer periods after application. Additionally, intended rotational crops must be bioassayed prior to planting. Rotational crops may be planted when no signs of phytotoxicity (bleaching or pigment loss in leaf 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.

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.

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.

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.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

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 on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

If in eyes: Flush eyes with plenty of water. Call a physician 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 contaminate water when disposing of equipment wash water. Do not apply directly to water, or to areas where surface water is present (except for application to cranberry bogs) or to intertidal areas below the mean high water mark. Do not allow this material to drift onto neighboring crops or noncrop areas or use in a manner or at

a time other than in accordance with label directions because animal, plant or crop injury, illegal residues, or other undesirable results may occur.

Norflurazon used on alfalfa can contaminate surface water through spray drift. Under some conditions, norflurazon may also have a high potential for runoff into surface water (primarily via dissolution in runoff water) for several months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas over-laying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

This chemical is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow may result in ground water contamination.

Evital 5G® trademark of Novartis

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Novartis Crop Protection, Inc.
Greensboro, North Carolina 27419
NCP 840A-L1(DRAFT)

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