

PM 23 100-910 3/23/98 10/20
US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-757)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

100-910

DATE OF ISSUANCE

MAR 23 1998

TERM OF ISSUANCE

Conditional

NAME OF PESTICIDE PRODUCT

Dual IIG MAGNUM™

NOTICE OF PESTICIDE: REGISTRATION

REREGISTRATION

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, 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 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 indorsement 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 registered in accordance with FIFRA Section

2(e)(7)(C) provided that you:

1. Submit and/or cite all data required for continuing the registration of CGA-77102 Technical (EPA Reg. No. 100-815) the source of the active ingredient in this pesticide product.
2. Revise the "Precautionary Statements" to read: "Harmful if absorbed through the skin. Avoid contact with the eyes, skin or clothing. Wash thoroughly with soap and water after handling."
3. Revise the "Statements of Practical Treatment" to read: "IF ON SKIN: Wash with plenty of soap and water. Get medical attention if symptoms persist."
4. Add the phrase "EPA Registration No. 100-910" to the label before you release the product for shipment.
5. Submit one (1) copy of the final printed labeling before you release the product for shipment.

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

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

ATTACHMENT IS APPLICABLE.
Enclosure

SIGNATURE OF APPROVING OFFICIAL

Joanne I. Miller

DATE

MAR 23 1998

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(Front Panel)

Dual IIG MAGNUM™

GRANULAR HERBICIDE

For weed control in corn (all types), peanuts, potatoes, and soybeans

50 Pounds
Net Weight

Active Ingredient:

Acetamide, 2-chloro-N-(2-ethyl-
6-methylphenyl)-N-(2-methoxy-1-
methylethyl) -(S)-*

.....	16.0%
Inert Ingredients:	84.0%
Total:	100.0%

*and R-Enantiomer

Product ID. _____

Dual IIG MAGNUM is a granular herbicide.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use on back of bag.

EPA Reg. No. 100-_____

EPA Est. _____

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAR 23 1998

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

100-910

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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

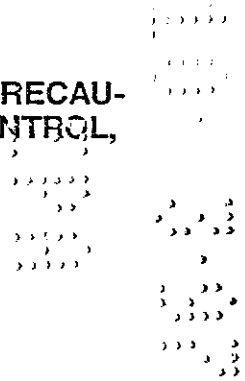
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements 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 24 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

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



Application Timing

Preplant Surface-Applied: For minimum-tillage or no-tillage systems only. Dual IIG MAGNUM alone may be applied up to 45 days before planting certain crops. Use only split applications for treatments made 30-45 days before planting, with $\frac{2}{3}$ of the recommended broadcast rate for the crop and soil texture applied initially and the remaining $\frac{1}{3}$ at planting. Treatments less than 30 days before planting may be made as either a split or a single application. If weeds are present at the time of treatment, apply a labeled contact herbicide (for example, Gramoxone® Extra or Roundup®). Observe directions for use, precautions, and restrictions on the label of the contact herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control may be diminished.

Preplant Incorporated: Apply Dual IIG MAGNUM to the soil and incorporate into the top 2 inches of soil within 14 days before planting. Use a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use a preplant incorporated application if furrow irrigation is to be used or if a period of dry weather after application is expected. If crop will be planted on beds, apply and incorporate Dual IIG MAGNUM after bed formation, unless specified otherwise.

Preemergence: Apply Dual IIG MAGNUM during planting (behind the planter) or after planting, but before weeds or crops emerge.

Fall Application (Only in IA, MN, ND, SD, WI, and portions of NE and IL - See specific instructions in the Corn and Soybean sections of this label for timing of application and other information): Do not apply to frozen ground. Use on medium and fine-textured soils with greater than 2.5% organic matter that will be planted to corn or soybeans the next spring. Ground may be tilled before or after application. Do not exceed a 2-inch incorporation depth if tilled after treatment. **Note:** If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for the specific crop, or illegal residues may result.

Application Procedures

Dual IIG MAGNUM may be applied either broadcast or banded. Do not apply Dual IIG MAGNUM during periods of high winds which could disrupt placement of the granules and reduce weed control. Locate granular diffusers as close to the ground as possible. Windshield attachments are advisable.

Pneumatic (Compressed Air) Broadcast Application (Dual IIG MAGNUM Alone): Dual IIG MAGNUM may be applied through pneumatic dry fertilizer applicators which are equipped with special on-board her-

bicide metering bins. These metering units must be properly calibrated with Dual IIG MAGNUM prior to use. The placement of the granules in the applicator's distribution system should be designed to minimize segregation of the granules from the dry fertilizer materials.

Precaution: Dual IIG MAGNUM should never be blended with other pesticide formulations for application through on-board metering bins. Dual IIG MAGNUM should never be blender-mixed with liquid or dry fertilizer materials for broadcast pneumatic application.

Broadcast Application ("Cyclone" or "Spinner" Type Spreaders): Dual IIG MAGNUM may be applied with a broadcast type (spinner) granular applicator or with a cyclone type spreader. Use applicators and techniques that will apply the granules uniformly to the soil. Do not blend Dual IIG MAGNUM with other pesticides or fertilizers. Always calibrate the device with Dual IIG MAGNUM prior to use.

Band Treatment: Dual IIG MAGNUM may be applied with any standard granular applicator capable of uniformly distributing a predetermined amount of granules to a desired area. Band treatment made at seeding should only be applied behind the press wheel.

Note: Caution should be taken with planting equipment so that any track (soil depression) made by the planter press wheel is minimal. This will reduce concentration of granules in the press wheel track by heavy rain which can result in crop injury. Soil tillage should not follow the use of band applications, unless it is adapted so as not to displace the band and hence, reduce weed control in the band. In reduced tillage systems, injury may occur if the planter slit is not properly closed during planting.

Applicator settings are given for band applications in Chart 1. These settings were determined under laboratory conditions to ±5% accuracy. Note that the settings may differ depending on speed of application, as well as rate per acre. **It is important that the user calibrate each individual granular applicator before its use. Since the actual setting for each individual granular applicator may vary, the settings shown should serve only as guidelines for calibration.**

Calculate the amount of Dual IIG MAGNUM needed for band treatment as follows:

$$\frac{\text{Band width in inches}}{\text{Row spacing in inches}} \times \text{Broadcast rate per acre} = \text{Band rate per acre}$$

Example: If 15 lbs./A is recommended for broadcast application and you wish to treat a band 14 inches wide in crop rows spaced 30 inches apart:

$$\frac{14}{30} \times 15 = 7.0 \text{ lbs. of granules needed for each acre that is to be treated}$$

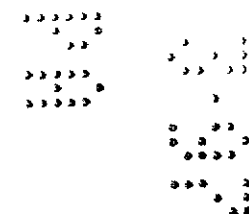
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Chart 1: Suggested Applicator Settings*

Applicator	SPEED MPH	Rate for 14" Band Width Per 1,000 Linear Ft.				
		2.6 oz.	3.4 oz.	4.3 oz.	5.1 oz.	6.4 oz.
		Equivalent Broadcast Rate Per Acre				
		6 lbs.	8 lbs.	10 lbs.	12 lbs.	15 lbs.
Gandy (Two Openings for 14" Band)	4	11.5	13.2	14.8	16.2	18.5
	5	12.8	14.7	16.7	18.4	20.7
	6	14.1	16.2	18.6	20.4	22.7
John Deere 7000 and 7100 Max-Emerge® Meter Scale 0..10..20.. etc.	4	11	14	17	20	24
	5	13	17	21	24	28
	6	16	20	24	27	31
John Deere 7000 and 7100 Max-Emerge® Meter Scale 0..15..25..etc.	4	9	11	12	14	17
	5	10	12	15	17	20
	6	12	14	17	19	22
John Deere 7200 and 7300 Max-Emerge® 2 White 6100 Series	4	14	17	21	25	32
	5	16	21	26	31	40
	6	19	25	32	37	46
Kinze®	4	6	9	12	14	18
	5	9	12	15	18	21
	6	11	14	18	21	24
Buffalo®	4	7	9	12	15	19
	5	9	11	16	19	22
	6	11	15	19	21	25
Noble (Remcor) 1973-Present White 5100 Series Deutz Allis 1985-Present (Rectangular Hole in Bottom)	4	7	8	9	11	13
	5	8	9	11	13	15
	6	9	11	13	15	18
International Harvester 1981-1985 Case IH 1985-Present	4	1/83*	2/05	2/34	2/57	3/01
	5	2/10	2/32	2/67	2/98	3/58
	6	2/22	2/57	3/03	3/50	4/10
Allis Chalmers 1979-1985 (Deutz-Allis) International Harvester 1980 & Before	4	8	10	13	15	18
	5	10	13	16	18	21
	6	12	15	18	20	24

*Settings are for application of the equivalent broadcast rates per acre indicated in a 14-inch band at speed (miles per hour) shown. If other than a 14-inch band is to be used, these settings do not apply and additional calibration will be necessary.

**Example 1/83 - Gate 1: 1/3 way to 9th setting.



Calibration of Band Applicators

To calibrate a granular applicator for a standard 14-inch band, a sample has to be collected while the applicator is either running or simulating a run over a distance of 500 ft.

Procedure

1. Fill applicator box with Dual IIG MAGNUM.
2. Refer to Chart 1 and adjust the setting on your applicator to correspond to the desired rate per acre.
3. Attach a plastic bag or similar container to the applicator spout after detaching the delivery tube.
4. Make the 500-ft. run at planting speed.

Speed/Time required to cover 500 ft:

- 4 mph = 1 min. 25 sec.
- 5 mph = 1 min. 8 sec.
- 6 mph = 57 sec.

5. Weigh granules collected (or measure volume) and, if necessary, adjust and make successive runs until the setting delivers the correct number of oz. per 500 ft. of row, as shown in Chart 2.
6. Repeat this procedure for each granular applicator box.

Chart 2: The Equivalent Broadcast Rate Per Acre in Volume and Weight for 500 Ft. on the Basis of a 14-Inch Band

Broadcast Rate Per Acre	Volume Collected In 14-Inch Band 500 Linear Ft.	Weight Collected In 14-Inch Band 500 Linear Ft.
6 lbs.	1.6 fl. oz.	1.3 oz.
8 lbs.	2.2 fl. oz.	1.7 oz.
10 lbs.	2.8 fl. oz.	2.2 oz.
12 lbs.	3.2 fl. oz.	2.6 oz.
15 lbs.	4.5 fl. oz.	3.5 oz.

For band widths other than 14 inches, the calibration distance will differ from 500 ft.

For other band widths, calculate the relative calibration distance in which to collect the corresponding weight or volume of Dual IIG MAGNUM in Chart 2 as follows:

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$$\frac{14 \text{ (Inches)}}{\text{Desired Band Width (Inches)}} \times 500 = \text{Calibration distance in ft.}$$

Example: A band width of 10 inches is to be used, instead of 14 inches, to apply Dual IIG MAGNUM at an equivalent rate of 10 lbs. per broadcast acre.

- A. $\frac{14 \text{ Inches}}{10 \text{ Inches}} \times 500 \text{ ft.} = 700 \text{ ft.}$
- B. Collect 2.8 fl. oz. by volume or 2.15 oz. by weight for the newly calculated calibration distance of 700 ft. for a 10-inch band.

CORN (ALL TYPES)

For control of annual grasses and broadleaf weeds listed under the **General Information** section, apply Dual IIG MAGNUM either preplant surface, preplant incorporated, or preemergence to corn before weeds emerge. For extended control of annual weeds, Dual IIG MAGNUM may be applied to weed-free soil at the time of the last cultivation (lay-by application) as either a surface or shallow incorporated treatment. Follow instructions for use of Dual IIG MAGNUM under **Application Timing**.

Preplant Surface-Applied

- A. **Fall Application:**
 1. Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
 2. Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
 3. Apply after October 31 north of Route 136 in IL.

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling. **Do not apply to frozen ground.** In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 10-15 lbs./A on *medium-textured* soils and 12-15 lbs./A on *fine-textured* soils. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but do not exceed an incorporation depth greater than 2 inches. Minimize furrow and ridge formation in the tillage operations. **Note:** If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for corn, or illegal residues may result.

- B. Use on medium- and fine-textured soils with minimum-tillage or no-

tillage systems in CO, IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY. Apply 2/3 of the recommended broadcast rate of Dual IIG MAGNUM shown in Table 1 as a split treatment 30-45 days before planting and the remaining 1/3 immediately before planting, or at planting. Applications less than 30 days before planting may be made either as a split or as a single treatment. Apply 8 lbs./A broadcast on coarse soils not more than 2 weeks before planting. If weeds are present at the time of treatment, apply a labeled contact herbicide (for example, Gramoxone Extra or Roundup). Observe the directions for use, precautions, and restrictions on the label of the contact herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished. To avoid reduced weed control, do not apply to frozen soil as rainfall may change the distribution pattern of the Dual IIG MAGNUM granules. Injury may occur from movement of Dual IIG MAGNUM into the planter slit if the slit is not properly closed during planting.

- C. On medium- and fine-textured soils with minimum- or no-tillage systems in CT, DE, MA, MD, ME, MI, NH, NY, OH, PA, RI, VA, VT, and WV, preplant surface applications may be applied following the directions for use above. If the amount of rainfall results in unsatisfactory length of weed control following the earlier treatment, a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide could be used, i.e., AAtrex®, Beacon®, Bicep®, Exceed®, Accent®, Banvel®, Basagran®, bromoxynil (Brominal® or Buctril®), or 2,4-D. Observe all directions for use, precautions, and limitations on the label of the postemergence herbicide.

Preplant Incorporated: Using the appropriate rate from Table 1, broadcast Dual IIG MAGNUM to the soil and uniformly incorporate within the top 1-2 inches of soil within 14 days before planting, using appropriate surface incorporating equipment, such as a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform incorporation.

Preemergence: Band or broadcast Dual IIG MAGNUM to the soil surface during or after planting and before weeds emerge, using the appropriate rate from Table 1. For band treatment, apply granules behind the press wheel. In reduced tillage systems, injury may occur from movement of Dual IIG MAGNUM into the planter slit if the slit is not properly closed during planting.

Note for All Applications to Corn: To avoid possible illegal residues, do not graze or feed forage from treated acres for 30 days following application.

Table 1: Dual IIG MAGNUM – Corn* - Preplant Surface (Excluding Fall Application), Preplant Incorporated or Preemergence Applications

Soil Texture	Broadcast Rate Per Acre	
	Less Than 3% Organic Matter	3-6%** Organic Matter
COARSE Sand, loamy sand, sandy loam	6-8 lbs.	8 lbs.
MEDIUM Loam, silt loam, silt	8-10 lbs.	8-10 lbs.
FINE Silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay	8-10 lbs.	10-12 lbs.
Muck or peat soils	DO NOT USE	

*Dual IIG MAGNUM may be used sequentially in place of Dual EC MAGNUM formulations with AAtrex, AAtrex + LoroX®, AAtrex or Princep® + Prowl®, Bladex®, or Banvel applied at the tank-mix rate specified on the respective product labels.

**Dual IIG MAGNUM may be used up to 15 lbs./A (broadcast basis) on soils having an organic matter content between 6 and 20% Dual IIG MAGNUM may be used up to 12 lbs./A on any soil for extended residual control and where severe stands of problem weeds are expected.

Woolly Cupgrass and Wild Proso Millet Control Program in Corn:
For control of these species, use the following 3-step program: (1) Apply Dual IIG MAGNUM early preplant, preplant incorporated, or preemergence at 10 lbs./A on medium-textured soils and 12 lbs./A on fine-textured soils. Lightly incorporate with a rotary hoe if rainfall does not occur within 5-7 days; (2) Apply a postemergence tank mix of Beacon at 0.38 oz./A or Exceed at 1 packet per 4 acres plus Accent SP at

SOYBEANS

For control of annual grasses and broadleaf weeds listed under the **General Information** section, apply Dual IIG MAGNUM either preplant surface, preplant incorporated, or preemergence to soybeans before weeds emerge. Follow instructions for use of DUAL IIG MAGNUM under **Application Timing**.

Preplant Surface-Applied

A. Fall Application:

1. Apply after September 30 in ND, SD, MN, WI, and north of Route 30 in IA.
2. Apply after October 15 north of Route 91 in NE and south of Route 30 in IA.
3. Apply after October 31 north of Route 136 in IL.

In all locations, apply to crop stubble after harvest when the sustained soil temperature at a 4-inch depth is less than 55°F and falling. **Do not apply to frozen ground.** In minimum-till or no-tillage systems on soils having greater than 2.5% organic matter, use 10-15 lbs./A on *medium-textured* soils and 12-15 lbs./A on *fine-textured* soils. A tillage operation may precede the application. A fall and/or a spring tillage may follow application, but do not exceed an incorporation depth greater than 2 inches. Minimize furrow and ridge formation in the tillage operations. **Note:** If a spring application is made, the total rate of the fall plus spring applications must not exceed the maximum total rate for soybeans, or illegal residues may result.

- B.** Use on medium- and fine-textured soils with minimum-tillage or no-tillage systems in CO, CT, DE, IA, IL, IN, KS, KY, MA, MD, ME, MI, MN, MO, MT, ND, NE, NH, NY, OH, PA, RI, SD, TN, VA, VT, WI, WV, and WY. Apply 2/3 of the recommended rate of Dual IIG MAGNUM from Table 2 as a split treatment 30-45 days prior to planting and the remainder at planting. Applications made less than 30 days before planting may be as either a split or a single treatment. Apply 8 lbs./A broadcast on coarse soils not more than 2 weeks prior to planting. If weeds are present at the time of treatment, apply a labeled contact herbicide (for example, Gramoxone Extra or Roundup). Observe the directions for use, precautions, and restrictions on the label of the contact herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished. To avoid reduced weed control, do not apply to frozen soil as rain/fall may change the distribution pattern of the Dual IIG MAGNUM granules. Injury may occur from movement of Dual IIG MAGNUM into the planter slit if the slit is not properly closed during planting.

Preplant Incorporated: Using the appropriate rate from Table 2, broadcast Dual IIG MAGNUM to the soil surface and incorporate in the top 2 inches of soil within 14 days before planting, using a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform incorporation.

Preemergence: Band or broadcast Dual IIG MAGNUM to the soil surface during or after planting and before weeds emerge, using the appropriate rate from Table 2. For band treatment, apply granules behind the press wheel. In reduced-tillage systems, injury may occur from movement of Dual IIG MAGNUM into the planter slit if the slit is not properly closed during planting.

Table 2: Dual IIG MAGNUM – Soybeans* - Preplant Surface (Excluding Fall Application), Preplant Incorporated or Preemergence Applications

Soil Texture	Broadcast Rate Per Acre	
	Less Than 3% Organic Matter	3-6%** Organic Matter
COARSE Sand, loamy sand, sandy loam	6-8 lbs	8 lbs.
MEDIUM Loam, silt loam, silt	8-10 lbs	8-10 lbs.
FINE Silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay	8-10 lbs.	10-12 lbs.
Muck or peat soils	DO NOT USE	

*Dual IIG MAGNUM may be used sequentially in place of Dual EC formulations with Sencor®/Lexone®, Lorox, Treflan, Scepter®, Lorox Plus®, Gemini®, Canopy®, Preview®, Command®, Sonalan®, or Pursuit applied at the tank-mix rate specified on the respective product labels.

**Dual IIG MAGNUM may be used up to 15 lbs./A (broadcast basis) on soils having an organic matter content between 6% and 20% for extended residual control and where severe stands of labeled weeds are expected.

Note: Do not apply more than the equivalent of 15 lbs. of Dual IIG MAGNUM per acre during any one year, or illegal residues may result. This includes both Dual IIG MAGNUM and Dual EC MAGNUM formula-

tions (1 pt. of a Dual EC MAGNUM formulation is equivalent to 6 lbs. of Dual IIG MAGNUM).

POTATOES

Apply Dual IIG MAGNUM either incorporated or preemergence according to the directions specified below for control of weeds listed under the **General Information** section. Within a rate range, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter. Effectiveness may be reduced if later cultural practices expose untreated soil or change the soil distribution pattern of Dual IIG MAGNUM.

Incorporated: Apply Dual IIG MAGNUM at 6-12 lbs./A broadcast to the soil and incorporate into the top 3 inches before planting, using a finishing disk, harrow, rolling cultivator, or similar implement. Planting and later cultural practices should avoid bringing untreated soil to the surface. Postplant incorporated application may be made any time after planting to drag-off, but before potato emergence. Incorporate, using an implement that distributes Dual IIG MAGNUM within the top 1-2 inches of soil. Do not damage potato seed pieces or sprouts with incorporation equipment.

Preemergence: Apply Dual IIG MAGNUM at 6-12 lbs./A broadcast, either after planting as a preemergence, delayed preemergence, after drag-off or hilling treatment, but before weeds emerge. Up to 15 lbs./A of Dual IIG MAGNUM broadcast may be used where soil organic matter is between 6% and 20%.

Precautions: (1) Do not use on muck or peat soils. (2) If cool, wet soil conditions occur after application, Dual IIG MAGNUM may delay maturity and/or reduce yield of Superior and other early maturing potato varieties. To avoid crop injury, (3) Do not use on sweet potatoes or yams. (4) Do not apply both preemergence and incorporated treatments to the same crop, and (5) Do not use on potatoes in Kern County, CA.

Note: To avoid illegal residues, potatoes treated with Dual IIG MAGNUM should not be harvested within 60 days after the last application.

Rotational Crops

(1) If the crop treated with Dual IIG MAGNUM is lost, any crop on this label may be replanted immediately. Do not make a second broadcast application of Dual IIG MAGNUM. If the original application was banded and the second crop is planted in the untreated row middles, a second banded treatment may be applied to the untreated row middles. (2) Barley, oats, rye, or wheat may be planted 4 1/2 months following applica-

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If in eyes: Flush with 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.

<p>User Safety Recommendations</p> <p>Users should:</p> <ul style="list-style-type: none">• Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Environmental Hazards

Cover or incorporate granules that are spilled during loading or are visible on soil surface in turn areas. 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 water when disposing of equipment wash waters.

Ground Water and Surface Water Advisory

The active ingredient in Dual IIG MAGNUM has the potential to leach through the soil to ground water, especially where soils are coarse and ground water is near the surface. Following application and during rainfall events that cause runoff the active ingredient may reach surface water bodies, including streams, rivers, and reservoirs.

Care must be taken when using this product to prevent spills or improper disposal of excess pesticide granules.

AAtrex®, Beacon®, Bicep®, Concep®, Dual II®, Exceed®, and Princep®
trademarks of Novartis
U.S. Patent Nos. 4,478,635; 4,618,361; 4,671,819

Accent®, Bladex®, Canopy®, Gemini®, Lexone®, Lorox®, Lorox Plus®,
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Gramoxone® and Vernam® trademarks of Zeneca Ag Products

KINZE® trademark of KINZE Manufacturing, Inc.

MaxEmerge® and Max-Emerge® trademarks of John Deere Company

Prowl®, Pursuit®, and Scepter® trademarks of American Cyanamid

Roundup® trademark of Monsanto Company

Sencor® trademark of Bayer AG

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Novartis Crop Protection, Inc.
Greensboro, North Carolina 27419

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