

PM 02

100-673

7-29-97

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 05-31-98



United States  
Environmental Protection Agency  
Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number  
257446

Application for Pesticide - Section I

1. Company/Product Number 100-673	2. EPA Product Manager Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Dual® Herbicide	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Novartis Crop Protection, Inc. P. O. Box 18300 Greensboro, NC 27419 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input checked="" type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Add directions for use on sunflowers.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Metal Plastic Glass Paper Other (Specify) _____		
*Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Karen S. Stumpf	Title Senior Regulatory Manager	Telephone No. (Include Area Code) 910-632-2169
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Data Application Received (Stamped)
2. Signature <i>Karen S. Stumpf</i>	3. Title Senior Regulatory Manager	
4. Typed Name Karen S. Stumpf	5. Date July 25, 1997	

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Supplemental Labeling

Dual® Herbicide

EPA Reg. No. 100-673

Sunflowers

Active Ingredient:

Metolachlor: 2-chloro-*N*-(2-ethyl-6-methylphenyl)-*N*-(2-methoxy-1-methylethyl) acetamide .....

86.4%

Inert Ingredients:

13.6%

Total:

100.0%

**KEEP OUT OF REACH OF CHILDREN.**

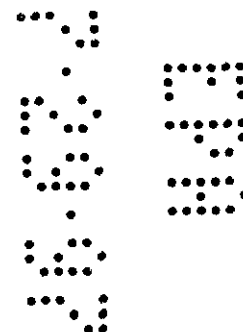
**WARNING/AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

All applicable directions, restrictions, and precautions on the EPA-registered Dual label are to be followed.

This label must be in the possession of the user at the time of pesticide application.

[LABELD-W/NDUASL-C] - ccg - 7/23/97



**DIRECTIONS FOR USE**

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

**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 PROCEDURES**

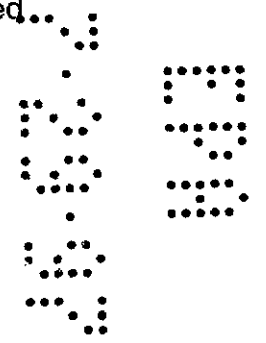
**Application Timing**

Dual alone or in some tank mixtures with other labeled herbicides may be applied for weed control in certain crops at various times. Refer to the given crop section of the label to determine if application timings listed below are recommended.

**Preplant Surface Applied:** For minimum-tillage or no-tillage systems only, Dual alone and some Dual tank mixtures may be applied up to 45 days before planting certain crops. Use only split applications for treatments made 30-45 days before planting, with 2/3 the recommended broadcast rate for the crop and soil texture applied initially and the remaining 1/3 at planting. Treatments less than 30 days before planting may be made either as a split or a single application. Refer to individual crop to determine if early preplant surface application is recommended. If weeds are present at the time of treatment, apply in a tank mixture combination with a 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 will be diminished.

**Preplant Incorporated:** Apply Dual to the soil and incorporate into 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 2 inch incorporation. Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather after application is expected. If crop will be planted on beds, apply and incorporate metolachlor after bed formation, unless specified otherwise.

**Preemergence:** Apply Dual during planting (behind the planter) or after planting, but before weeds or crop emerge.



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**SUNFLOWERS - DUAL ALONE**

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**Preplant Incorporated or Preemergence:** Follow instructions for use of Dual alone under **Application Procedures**.

On coarse soils, apply 1.5-2.0 pts./A of Dual if organic matter content is less than 3%, or 2.0 pts./A if organic matter is 3% or greater. On medium soils, apply 2.0-2.5 pts./A of Dual. On fine soils, apply 2.0-2.5 pts./A of Dual if organic matter content is less than 3% or 2.5-3.0 pts./A if organic matter content is 3% or greater.

**Precaution:** To avoid possible illegal residues, do not graze or feed sunflower forage or fodder to livestock.

Dual™ trademark of Novartis

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Novartis Crop Protection, Inc.  
Greensboro, North Carolina 27419

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