

PM 23 55947-77

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United States  
Environmental Protection Agency  
Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number  
250973

Application for Pesticide - Section I

1. Company/Product Number Sandoz Agro, Inc./ 55947-77	2. EPA Product Manager D. Kenny	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Sandoz Agro, Inc./ Zorial Rapid 80	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Sandoz Agro, Inc. 1300 E. Touhy Ave. Des Plaines, IL 60018 <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 _____	

NOTIFICATION  
Section - II

<input 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 checked="" type="checkbox"/> Notification - Explain below. See Cover Letter Notification PRN 95-2	<input type="checkbox"/> Other - Explain below.

OCT 21 1996

Explanation: Use additional page(s) if necessary. (For section I and Section II.)  
"This notification is consistent with the provisions of PR Notice 95-2 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 95-2 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
* Certification must be submitted				<input type="checkbox"/> Glass	<input checked="" type="checkbox"/> Paper
	If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 6x5-1b	5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product		
6. Manner in Which Label is Affixed to Product <input checked="" 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 Nancy Huebl	Title Label Coordinator	Telephone No. (Include Area Code) (847) 390-3823
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. Date Application Received (Stamped)
2. Signature <i>Nancy Huebl</i>	3. Title Label Coordinator	
4. Typed Name Nancy Huebl	5. Date October 4, 1996	

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# ZORIAL RAPID 80® Herbicide

## Supplemental Labeling

### Alfalfa Directions for Use

EPA Registration No 55947-77

**NOTIFICATION**  
*OCT 21 1996*

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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.

**This labeling must be in the possession of the user at the time of application.**

### **IMPORTANT**

Before using this product read and carefully observe all applicable directions, restrictions, and precautionary statements on the EPA registered container label and the ZORIAL RAPID 80® Directions for Use booklet attached to the container.

### **Use Precautions**

Do not apply this product through any type of irrigation system.

ZORIAL RAPID 80 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 ZORIAL RAPID 80 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 ZORIAL RAPID 80.

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 ZORIAL RAPID 80 is activated in the soil will not become established.

### **Application Timing and Rates**

ZORIAL RAPID 80 may be applied to healthy stands of established alfalfa at 1.25 lb/A no earlier than 5 months following emergence. An additional 1.25 lb/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 1.25 to 2.5 lb/A depending upon weed pressure, soil texture, and cultural practices:

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

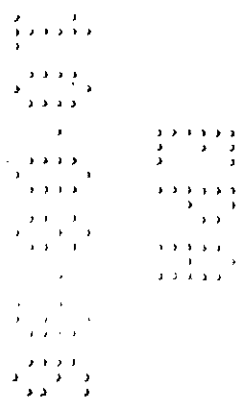
\* Use the higher rate on medium to fine textured soils (sandy clay through clay) and when heavier weed pressure is expected. The 2.5 lb maximum annual rate may be applied in a single application or in split applications.

Do not apply more than 2.5 lb/A per crop year.

Incorporation by rainfall, irrigation, or tillage (for example, by spring tine, disc, or spike tooth harrow) is necessary to activate ZORIAL RAPID 80 in soil before weed seeds germinate and emerge. A minimum of one-half to one inch rainfall or irrigation is necessary to incorporate ZORIAL RAPID 80.

Application may be made during dormancy, as long as soil is not frozen, or in actively growing stands. On non-dormant alfalfa, application should always follow mowing and removal of hay to ensure spray reaches the soil surface. In non-irrigated 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. Fall or winter applications are necessary for control of winter annual weeds.

ZORIAL RAPID 80 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**

ZORIAL RAPID 80 applications in alfalfa will control or suppress germinating seed of weed species listed below.

**Weeds Controlled**

- Anoda, Spurred (Cottonweed)
- Barnyardgrass
- Bluegrass, Annual
- Brome, Downy
- Carpetweed
- Cheat
- Chickweed
- Crabgrass
- Croton, Tropic
- Flixweed
- Foxtails
- Goosegrass<sup>1</sup>
- Henbit
- Johnsongrass (seedling)
- Junglerice
- Mustards
- Panicum spp.
- Pigweeds
- Purslane
- Pusley, Florida
- Rescuegrass
- Ryegrass, Italian (Annual Ryegrass)
- Shepherdspurse
- Sida, Prickly
- Signalgrass
- Velvetleaf

- Anoda cristata*
- Echinochloa crus-galli*
- Poa annua*
- Bromus tectorum*
- Mullugo verticillata*
- Bromus secalinus*
- Stellaria media*
- Digitaria* spp.
- Croton glandulosus*
- Descurania sophia*
- Setaria* spp.
- Eleusine indica*
- Lamium amplexicaule*
- Sorghum halepense*
- Echinochloa colona*
- Brassica* spp.
- Panicum* spp.
- Amaranthus* spp.
- Portulaca oleracea*
- Richardia scabra*
- Bromus catharticus*
- Lolium multiflorum*
- Capsella bursa-pastoris*
- Sida spinosa*
- Brachiaria platyphylla*
- Abutilon theophrasti*

<sup>1</sup> Including dinitroaniline (DNA) tolerant goosegrass

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Weeds Suppressed

- Beggarweed, Florida
- Bermudagrass
- Cocklebur, Common
- Fiddleneck
- Groundsel
- Johnsongrass (rhizome)
- Kochia
- Malva
- Mallow, Venice
- Morningglory
- Nutsedge (Yellow and Purple)
  
- Ragweed, Common
- Sage, Lanceleaf (Mintweed)
- Sandbur
- Senna, Coffee
- Sesbania, Hemp
- Sicklepod
- Smartweed, Pennsylvania
- Sowthistle
- Spurge, Spotted
- Thistle, Russian

- Desmodium tortuosum*
- Cynodon dactylon*
- Xanthium strumarium*
- Amsinckia intermedia*
- Senecio vulgaris*
- Sorghum halepense*
- Kochia scoparia*
- Malva* spp.
- Hibiscus trionum*
- Ipomoea* spp.
- Cyperus esculentus*
- C. rotundus*
- Ambrosia artemisiifolia*
- Salvia retroflexa*
- Cenchrus* spp.
- Cassia occidentalis*
- Sesbania exaltata*
- Cassia obtusifolia*
- Polygonum pensylvanicum*
- Sonchus oleracea*
- Euphorbia maculata*
- Salsola iberica*

Tank Mixes

ZORIAL RAPID 80 may be tank mixed with any of the following products that bear labeling for use on alfalfa. Read and follow directions for use, precautionary statements and rates of application of these tank mix partners.

<u>Trademark</u>	<u>active ingredient</u>
Butyrac®	2,4-DB
Gramoxone®	paraquat
Pursuit®	imazethapyr
Velpar®	hexazinone
Sinbar®	terbacil
Lexone®, Sencor®	metribuzin
Treflan®, Trilin®	trifluralin
Eptam®	EPTC
Poast®	sethoxydim
Kerb®	pronamide
Karmex®	diuron

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**Rotational Crop Restrictions**

For 16 months following the last application of ZORIAL RAPID 80, treated acreage may only be rotated to cotton, soybeans, peanuts, or asparagus. Soybean and peanuts may show pigment loss (bleaching in leaf veins) and/or stand reduction in Texas (west of I-35), southwest Oklahoma, and New Mexico if planted within 16 months following the last ZORIAL RAPID 80 application.

Special rotational instructions for California, Arizona, Oregon, and Washington: 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 four months following emergence.

Alfalfa stands treated with ZORIAL RAPID 80 should be irrigated as in normal production the year prior to rotation in California, Arizona, eastern Washington, and eastern Oregon.

**REGISTERED TRADEMARKS**

- Butyrac® is a registered trademark of Rhone-Poulenc Ag Company.
- Eptam® and Gramoxone® are registered trademarks of Zeneca, Inc.
- Karmex®, Lexone®, Sinbar®, and Velpar® are registered trademarks of E.I. du Pont de Nemours & Company, Inc.
- Kerb® is a registered trademark of Rohm and Haas Company.
- Poast® is a registered trademark of BASF AG.
- Pursuit® is a registered trademark of American Cyanamid Company.
- Sencor® is a registered trademark of Bayer Corporation.
- Treflan® is a registered trademark of DowElanco Chemical Company.
- Trilin® is a registered trademark of Griffin Ag Products Co.
- ZORIAL RAPID 80® is a registered trademark of Sandoz Ltd.

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