## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUN 28 2007

Timothy M. Formella United Phosphorous, Inc. 423 Riverview Plaza Trenton, NJ 08611

Dear Mr. Formella:

Subject:

Label Revision Amendment

Devrinol 50-DF Selective Herbicide

EPA Reg. No. 70506-36

Submission dated April 11, 2007

The labeling, referred to above, submitted in connection with the application under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable, provided that you make the following changes:

2. Under "Conditions of Sale and Limitation of Warranty and Liability";

Add "To the extent consistent with applicable law" before "All such risks shall be assumed by Buyer." Delete ", and Buyers and User agree to hold . . . and Seller harmless for any claims relating to such factors." Also, add "To the extent consistent with applicable law" before "The exclusive remedy . . . the replacement of this product."

3. Under "Environmental Hazards":

Add "This product is toxic to fish" at the beginning of this section.

Under "For Sprinkler Irrigation:"

Add the following additional requirements:

- a. Indicate whether agitation is or is not recommended in the pesticide supply tank. If it is not always recommended, identify the situations when it is recommended (e.g. when tank mixing with other pesticides or fluid fertilizers).
- b. Indicate if the pesticide is to be applied continuously for the duration of the water application. If not, indicate when during the water application the pesticide is to be applied.
- Provide mixing instructions for dilution of the pesticide in the supply tank.
- 4. Under "For Flood (Basin), Furrow and Boarder Irrigation";

Add the following additional requirements:

- a. Indicate whether or not a pesticide supply tank is recommended for the application. If it is recommended, provide mixing instructions for dilution of the pesticide in the tank. If agitation s not always recommended, identify the situations when it is recommended (e.g., when tank mixing with other pesticides or fluid fertilizers).
- b. Indicate if the pesticide is to be applied continuously for the duration of the water

- c. application. If not, indicate when during the water application the pesticide is to be applied.
- 5. Under "Directions for Use";

Add" Do not allow people or pets to enter the treated area until dusts have settled."

- 6. Under Under "Crop Use Directions";
  - The EPA Reregistration Eligibility Decision (RED) document for napropamide has canceled use and reduced application rate for various crops. For example, the use of grapefruit and walnut has been canceled. The application rate for almond has been reduced to one application per year with a maximum application rate of 4 lbs napropamide per acre. You need to delete or revise the application rate for the listed crops in accordance with the napropamide RED (table 11 on page 49). It is available at the EPA website: <a href="http://www.epa.gov/pesticides/">http://www.epa.gov/pesticides/</a> reregistration/napropamide.
  - Strawberries grown on plastic mulch on plant beds";

The application is limited to Florida only in the Agency accepted label dated July 2004. The proposed label removes this limitation and applies it to all regions. Please provide documentation for this change.

7. Under "Tank Mixtures";

Add "Follow applicable restrictions imposed on the labels of the tank mix partners."

The amended label supersedes all previously accepted labels. A stamped copy of the revised label is enclosed for your records. Please submit one copy of your final printed label before you release the product for shipment.

Sincerely yours,

Jim Tompkins

Product manager (25)

Herbicide Branch

Registration Division (7505P

Enclosure

			 CURRENCES	 	
SYMBOL ➤	7505P	7505P			
SURNAME ➤	C. Bien	Tompkins			
DATE >	6-25-07		·	u ·	

EPA Form 1320-1 (12-70)

red-line version

# **DEVRINOL®** 50-DF

Selective Herbicide - Dry Flowable

For use on certain Citrus, Nuts, Pome fruits, Small fruits, Stone fruits, Vegetables and Tobacco

fruits, Stone fruits, Vegetables and Tobacco

ACTIVE INGREDIENT:	• •.			
Napropamide		 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		50%
OTHER INGREDIENTS:				
·		·		
2022		 	····	

Contains 50 lbs. of Active Ingredient per 100 lbs.

EPA Reg. No. 70506-36 EPA Est. No.

## KEEP OUT OF REACH OF CHILDREN

# **CAUTION**

ACCEPTED with COMMENTS in EPA Letter Dated

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

705-06-36

JUN 28 2007



Manufactured for:
United Phosphorus, Inc.
423 Riverview Plaza
Trenton, NJ 08611
1-800-247-1557 • www.upi-usa.com

NET WEIGHT: 4 lbs.

# IMPORTANT INFORMATION READ BEFORE USING PRODUCT

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE**: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

To the extent consistent with applicable law, United Phosphorus, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or United Phosphorus, Inc., and Buyer and User assume the risk of any such use. To the extent consistent with applicable law, UNITED PHOSPHORUS, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, United Phosphorus, Inc. or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product and THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF UNITED PHOSPHORUS, INC. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF UNITED PHOSPHORUS, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.

United Phosphorus, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of United Phosphorus, Inc.

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#### FIRST AID

#### IF SWALLOWED:

- Call a Poison Control Center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not give anything by mouth to an unconscious person.
- Do not induce vomiting unless told to by a Poison Control Center or doctor.

#### IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a Poison Control Center or doctor for treatment advice.

#### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a Poison Control Center or doctor for treatment advice.

#### IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a Poison Control Center or doctor for further treatment advice.

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment. For medical treatment, contact the <u>Rocky Mountain Poison Control Center at 1-866-767-5089</u>. National Pesticide Information Center 1-800-8587378.

For Chemical Emergency: Spill, leak, fire, exposure or accident, call CHEMTREC 1-800-424-9300.

#### PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing dust.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical resistant gloves made of any waterproof material.
- 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 CONTROLS STATEMENT

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 or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

#### 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.

#### **GENERAL USE PRECAUTIONS**

Read all instructions before using. Use only for recommended purposes and at recommended rates. Do not overdose. Do not apply when weather conditions favor drift from areas treated. Except where specifically noted, DEVRINOL® 50-DF Herbicide is not recommended for use on soil containing more than 10% organic matter. Spraying on ground heavily covered with leaves or trash may adversely affect weed control. Do not apply to frozen ground.

Do not contaminate irrigation water or water used for domestic purposes.

To avoid injury to succeeding crops not specified on the label or specified under "Crop Rotation Restrictions" section below, do not plant until 12 months after the last application of DEVRINOL 50-DF, and a deep disc plow or moldboard plow operation (minimum 10 inches) must be carried out prior to planting.

#### **CROP ROTATION RESTRICTIONS**

- Do not rotate to leafy vegetables within 2 months (60 days) following a Devrinol 50-DF treatment at rates not exceeding 4 lbs/A.
- Do not rotate to cereal grains within 6 months (180 days) following a Devrinol 50-DF treatment at rates not exceeding 4 lbs/A.
- Do not rotate to any other crop not specified on this label within 12 months (365 days) following a Devrinol 50-DF treatment at rates not exceeding 4 lbs/A.

When DEVRINOL 50-DF is used on tobacco Pre-Plant Incorporated, posttransplant or layby at up to 4 pounds per acre surface applied, small grains may be seeded in rotation in the fall to prevent soil erosion. These grains may be stunted but not otherwise adversely affected. No tolerance is established for residues of DEVRINOL 50-DF in small grains and must be destroyed by plowing under or otherwise prevented from reaching food or feed production.

• For food or feed uses, do not rotate from tobacco to cereal grains within 6 months (180 days) following a Devrinol 50-DF treatment at rates not exceeding 4 lbs/A.

If rotating out of tobacco the following spring, to avoid injury to crops not specified on this label, refer to the above "Crop Rotation Restrictions".

Crops listed on this label may be planted immediately after the last treatment.

Crops are not to be grazed or harvested for food or feed purposes earlier than maturity.

Note: When using Devrinol 50-DF with other registered pesticides, always refer to the rotation crop restrictions and precautions on the other product label and comply with the most restrictive rotational crop directions.

#### 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.

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Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 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.
- Chemical resistant gloves made of any waterproof material.
- Shoes plus socks.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Keep container closed when not in use. Store in a cool dry place. Do not store near seeds, fertilizer or foodstuffs.

**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 application equipment. Then dispose of empty bag or cardboard container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### **GENERAL INFORMATION**

DEVRINOL 50-DF is a selective surface-applied or incorporated herbicide for use in certain types of newly planted or established crops. DEVRINOL 50-DF does not control established weeds. All weed growth and crop stubble in the fields must be thoroughly worked into the soil prior to planting. Spray equipment should be carefully calibrated before use and checked frequently during application to be sure nozzles are operating properly and are delivering a uniform spray pattern. Apply the recommended rate of DEVRINOL 50-DF in 10 to 50 gallons of water per acre in a low pressure boom-type sprayer.

Be sure the spray tank, boom and nozzle have been thoroughly flushed with clean water before use. Sufficient jet or mechanical agitation should be provided during the filling operation and during application.

When mixing DEVRINOL 50-DF alone, or in combination with other recommended wettable powders, make a slurry and add to a nearly filled spray tank with adequate agitation. This will enhance initial mixing. Recommended contact herbicides and spreaders should always be added to a nearly filled spray tank. Never add them to the slurry.

## APPLICATIONS THROUGH SPRINKLER IRRIGATION SYSTEMS (Western Region and Florida Only)

- Do not allow treatment to contact foliage or crop.
- Remove existing weed growth before application.
- Meter the DEVRINOL 50-DF into the irrigation water during the entire period.
- Apply with sufficient water to wet the soil to a depth of 2-4 inches.
- Good agitation should be maintained during the entire application period.
- Avoid run-off.

Western Region (Tree crops and Grapes Only): DEVRINOL 50-DF may be applied at the recommended rates through irrigation water for preemergence control of listed weeds in grapes and tree crops.

Florida (Citrus Only): DEVRINOL 50-DF may be applied at the recommended rates through irrigation water (microsprinklers only) for preemergence control of listed weeds in citrus.

#### **USE PRECAUTIONS:**

A. Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, microsprinkler, solid set, or hand move, flood (basin); furrow; border irrigation systems. Do not apply this product through any other type of irrigation system.

- B. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.
- C. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- D. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- E. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

#### FOR SPRINKLER IRRIGATION:

- 1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 7. Do not apply when wind speed favors drift beyond the area intended for treatment.

#### FOR FLOOD (BASIN), FURROW AND BORDER IRRIGATION:

- 1. Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.
- 2. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:
  - a. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
  - b. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
  - c. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated válve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut
  - d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
  - e. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

NOTE: All rates are given on a broadcast basis, per acre. Reduce rates proportionately for band or strip treatment.

## WEEDS CONTROLLED BY 4 to 8 LBS. DEVRINOL 50-DF PER ACRE (CALIFORNIA ONLY) - SURFACE APPLICATION

NOTE: DEVRINOL 50-DF does not control established weeds.

WEEDS CONTROLLED				
Barnyardgrass, Junglerice	Echinochloa spp.			
Annual Bluegrass	Poa annua			
Large (Hairy) Crabgrass	Digitaria sanguinalis			
Red Sprangletop	Leptochloa filiformis			

For control of all weeds listed, apply 4 to 8 pounds DEVRINOL 50-DF per broadcast acre to the soil surface. Apply in the fall through early spring prior to emergence. Do not apply DEVRINOL 50-DF to frozen ground. For best results, the treatment must reach the zone of weed seed germination. If rainfall does not occur the treatment must be shallowly incorporated or irrigated-in following application (sprinkler or flood) with sufficient water to wet the soil to a depth of 2-4 inches.

#### WEEDS CONTROLLED BY 8 LBS. DEVRINOL 50-DF PER ACRE SURFACE APPLICATION

NOTE: DEVRINOL 50-DF does not control established weeds.			
WEEDS CONTROLLED			
ANNUAL GRASSES:			
Barnyardgrass, Junglerice	Echinochloa spp.		
Foxtail Barley	Hordeum jubatum		
Wild Barley	Hordeum leporinum		
Annual Bluegrass	Poa annua		
Bromes	Bromus		
Cheatgrass	B. secalinus		
Downy Brome	B. tectorum		
Ripgut Brome	B. rigidus		
Soft Chess	B. mollis		
Canarygrass	Phalaris canariensis		
Large (Hairy) Crabgrass	Digitaria sanguinalis		
Smooth Crabgrass	Digitaria ischaemum		
Southwestern Cupgrass	Eriochloa gracilis		
Foxtail	Setaria		
Bristly Foxtail	S verticilla		
Giant Foxtail	S. faberi		
Green Foxtail	S. viridis		
Yellow Foxtail	S. lutescens		
Goosegrass	Eleusine indica		

WEEDS CONTROLLED		
Seedling Johnsongrass	Sorghum halpense	
Wild Oats	Avena fatua	
Panicums	Panicum	
Guineagrass	P. Maximum	
Fall Panicum	P. dichotomiflorum	
Texas Panicum	P. texanum	
Witchgrass	P. capillare	
Italian Ryegrass	Lolium multiflorum	
Sandbur	Cenchrus spp.	
Mexican Sprangletop	Leptochloa uninervia	
Red Sprangletop	,Leptochloa filiformis	
Stinkgrass	Eragrostis cilianensis	
ANNUAL BROADLEAF WEEDS:		
Carpetweed	Mollugo verticillata	
Common Chickweed	Stellaria media	
Coast Fiddleneck	Amsinckia intermedia	
Cudweed, Purple	Gnaphalium purpureum	
Redstem Filaree	Erodium circutarium	
Common Groundsel	Senecio vulgaris	
Prostrate Knotweed	Polygonum aviculare	
Lambsquarters	Chenopodium album	
Prickly Lettuce	Lactuca serriola	
Little Mallow*	Malva parviflora	
Redroot Pigweed	Amaranthus retroflexus	
Pineappleweed	Matricaria matricarioides	
Common Purslane	Portulaca oleracea	
Horse Purslane	Trianthema portullacastrum	
Common Ragweed**	Ambrosia artemisiifolia	
Annual Sowthistle	Sonchus oleraceus	

<sup>\*</sup>From seed

NOTE: All rates are given on a broadcast basis. Reduce rates proportionately for band or strip treatment.

For control of all weeds listed, apply 8 pounds DEVRINOL 50-DF per broadcast acre to the soil surface. Apply in the fall through early spring prior to weed emergence. Do not apply DEVRINOL 50-DF to frozen ground. For best results, the treatment must reach the zone of weed seed germination. If rainfall does not occur the treatment must be shallowly incorporated or irrigated-in following application (sprinkler or flood) with sufficient water to wet the soil to a depth of 2 to 4 inches.

#### ALLOWABLE TIME FOR TREATMENT TO REMAIN ON SOIL SURFACE (BY REGION):

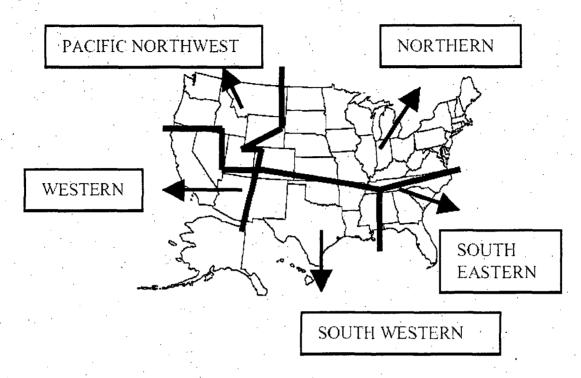
WEST: Three weeks (November through February) or 24 hours (remainder of year).

PACIFIC NORTHWEST: Three weeks (Fall through Early Spring) or 24 hours (remainder of year).

OTHER REGIONS: 24 hours.

<sup>\*\*</sup>Suppression

Use as a directed spray and avoid contact with fruit or foliage. Do not apply when fruit or nuts are on the ground during the harvest period. Do not graze treated areas.



## CROP USE DIRECTIONS: FRUIT AND NUT CROPS - SURFACE APPLICATION

DEVRINOL 50-DF is recommended for use on the following crops. Refer to regional map under "GENERAL INFORMATION".

CROP	USE DIRECTIONS	USE RECOMMENDATIONS
Almonds (All Regions)	8 pounds DEVRINOL 50-DF	Apply to a weed free soil surface. May be
Apples (All Regions)	per broadcast acre. Do not exceed	applied to newly planted and established
Apricots (All Regions)	a maximum application rate of 8 lbs.	crop.
Cherries (All Regions)	per acre per crop cycle.	
Figs (All Regions)	In the Western Region an	
Filberts (All Regions)	additional 8 pounds may be	
Grapefruit (All Regions)	applied during the growing	
Grapes (All Regions)	season; Do not exceed a maximum	
Kiwifruit (Western Region Only)	application rate of 16 lbs. per acre	
Lemons (All Regions)	per crop cycle.	
Nectarines (All Regions)	Do not apply within 35 days of	
Olives (Western Region Only)	harvest.	
Oranges (All Regions)		
Peaches (All Regions)		
Pears (All Regions)		
Pecans (All Regions)		·
Plums (All Regions)	. '	
Prunes (All Regions)		·
Tangelos (All Regions)		
Tangerines (All Regions)		
Walnuts (All Regions)		

	)	· ·
Avocados (Western Region Only)	8 pounds DEVRINOL 50-DF	Apply to a weed free soil surface. May be
Persimmons (Western Region Only)	per broadcast acre.	applied to established crop only.
	An additional 8 pounds may be	
	applied during the growing	
	season. Do not exceed a maximum	
·	application rate of 16 lbs. per acre	
	per crop cycle.	
	Do not apply within 35 days of	
	harvest.	
Blueberries (All Regions)	8 pounds DEVRINOL 50-DF	Apply to a weed free soil surface. May be
Caneberries (blackberries,	per broadcast acre. Do not	applied to newly planted and established
raspberries, boysenberries and	exceed a maximum application rate	crop.
loganberries) (All Regions)	of 8 lbs. per acre per crop cycle.	crop.
	of 6 lbs. per acre per crop cycle.	
Currants (All Regions)		
Pistachios (All Regions)		
		,
Pomegranates (Western Region	8 pounds DEVRINOL 50-DF	Apply to a weed free soil surface. May be
Only)	per broadcast acre. Do not	applied to established crop only.
	exceed a maximum application rate	
•	of 8 lbs. per acre per crop cycle. Do	
	not apply within 6 months of	
	harvest.	
Rhubarb (Pacific Northwest Only)	8 pounds DEVRINOL 50-DF	Apply to a weed free soil surface in winter
	per broadcast acre. Do not	when rhubarb is dormant.
	exceed a maximum application rate	
	of 8 lbs. per acre per crop cycle.	
Strawberries not grown on plastic	8 Pounds DEVRINOL 50-DF	Apply to a weed free soil surface. May be
mulch (All Regions)	per broadcast acre. Do not	applied to newly transplanted crop. Delay
	exceed a maximum application rate	application until desired number of daughter
	of 8 lbs. per acre per crop cycle.	plants have become established.
	Do not apply from bloom	
•	through harvest.	,
Strawberries - Established Plantings	8 Pounds DEVRINOL 50-DF	Apply after removal of straw mulch.
- Spring Application (All Regions)	per broadcast acre. Do not	Surface should be weed free. Water into
	exceed a maximum application rate	soil to a depth of 2 to 4 inches using natural
•	of 8 lbs. per acre per crop cycle.	rainfall or irrigation within 24 hours of
·	Do not apply from bloom	application for best results.
	through harvest.	
Strawberries - Established Plantings	8 Pounds DEVRINOL 50-DF	Apply before winter protective mulch is
- Fall Application (All Regions)	per broadcast acre. Do not	applied over plants. Water into soil to a
	exceed a maximum application rate	depth of 2 to 4 inches using natural rainfall
	of 8 lbs. per acre per crop cycle.	or irrigation within 24 hours of application.
		Do not apply Devrinol 50-DF to frozen
•		ground.
Strawberries grown on plastic mulch	8 Pounds DEVRINOL 50-DF	Apply to a weed free soil before the laying
on plant beds (All Regions)	(preplant incorporate) per	of plastic mulch. Soil should be well
on himit ocas ( Wit Kektons)	broadcast acre. Do not exceed a	worked yet moist enough to permit a
	maximum application rate of 8 lbs.	thorough incorporation to a depth of 2
	per acre per crop cycle.	inches. Incorporate the same day as applied
	por unit per orop oyoror	
	· ·	before laying of plastic mulch using
		equipment which will result in uniform
	• •	incorporation of the herbicide to desired
		depth. If weed pressure is from small
	-	seeded annuals, apply to the surface of the
•		bed immediately in front of the laying of the
		plastic mulch. If soil is dry, water or sprinkler irrigate with sufficient water to

		wet to a depth of 2 to 4 inches before covering with plastic mulch. Apply the plastic mulch over the treated soil the same day.
Strawberries grown on plastic mulch on plant beds (All Regions)	8 Pounds DEVRINOL 50-DF (application between rows of plastic mulch (middles or aisles)) per broadcast acre. Do not exceed a maximum application rate of 8 lbs. per acre per crop cycle. Do not apply from bloom through harvest.	Use a shielded sprayer or properly spaced drop nozzles to apply to a weed free soil surface between the rows of plastic.  Mechanically incorporate or irrigate Devrinol into the soil to a depth of 1 to 2 inches within 24 hours of application. In the event of emerged weed growth being present, tankmix up to 8 pounds of Devrinol with the correct amount of Gramoxone Max to get burndown and residual control,

# CROP USE DIRECTIONS: OTHER CROPS - SURFACE APPLICATION

GENERAL INFORMATION

CROP	USE DIRECTIONS	USE RECOMMENDATIONS
Artichokes (Western Region Only)	8 pounds DEVRINOL 50-DF per	Apply to a weed free soil surface.
Asparagus (All Regions)	broadcast acre. Do not exceed a	May be applied to established crop
	maximum application rate of 8 lbs. per	only.
	acre per crop cycle.	
	Where recommended for use on	
• •	established crops, apply	
	DEVRINOL 50-DF only to stands	
	that have been established for at	
	least one growing season. Where	
	recommended for use on evenly	
	planted crops, application may be	
	made immediately after planting	
	young trees, vines, and bushes.	
Mint (Pacific Northwest Only)		Apply to a weed free soil surface.
		May be applied to newly planted and
		established crop.

# WEEDS CONTROLLED BY 2 TO 4 LBS, DEVRINOL 50-DF PREPLANT INCORPORATED APPLICATION

NOTE: DEVRINOL 50-DF does not control established weeds.

WEEDS CONTROLLED ANNUAL GRASSES:				
Digitaria spp.				
Setaria				
S. faberi				
S. viridis				
S. lutescens				
Eleusine indica				
Sorghum halepense				
Panicum				
P. dichotomiflorum				
P. capillare				
Eragrostis cilianensis				

WEEDS CONTROLLED		
Carpetweed	Mollugo verticillata	
Purple Cudweed	Gnaphalium purpureum	
Galinsoga*	Galinsoga spp.	
Lambsquarters	Chenopodium album	
Redroot Pigweed	Amaranthus retroflexus	
Smooth Pigweed	Amaranthus hybridus	
Common Purslane	Portulaca oleracea	
Florida Pusley	Richardia scabra	
Common Ragweed**	Ambrosia artemisiifolia	

<sup>\*</sup>Controlled at 4 lb. DEVRINOL 50-DF

On flat-planted or bedded crops apply, before planting, to well-worked soil that is dry enough to permit thorough incorporation to a depth of 1 to 2 inches. Incorporate the same day as applied, using equipment which will result in uniform incorporation of the herbicide to the desired depth. Whenever a rate range is recommended for DEVRINOL 50-DF, use the lower rate on light soil (coarse textured-sandy) and the higher rate on heavy soil (fine textured-clay).

After harvest or prior to planting of succeeding crops, a deep moldboard or disc plowing operation must be carried out.

# CROP USE DIRECTIONS: TOBACCO AND VEGETABLES PREPLANT INCORPORATED APPLICATION

NOTE: All rates are given on a broadcast basis. Reduce rates proportionately for band or strip treatment.

CROP	USE DIRECTIONS	USE RECOMMENDATIONS
Broccoli (Maine Only)	2-4 pounds DEVRINOL 50-DF per	Apply to weed free surface. May be
	broadcast acre. Do not exceed 4	applied to direct seeded and
	pounds DEVRINOL 50-DF per acre	transplanted crop, preplant
	per crop season. Do not exceed a	incorporated or as a surface spray
	maximum application rate of 4 lbs. per	after planting. Shallow incorporate
	acre per crop cycle.	no deeper than seeding depth or
· · · · · · · · · · · · · · · · · · ·		sprinkler irrigate within 24 hours
		using sufficient water to wet the soil
		to a depth of 2-4 inches. Use the
		lower rate on light soil (coarse
		textured-sandy) and the higher rate
		on heavy soil (fine textured-clay).
Cole Crops - Broccoli, Brussels	1-2 pounds DEVRINOL 50-DF per	For suppression of Annual
Sprouts, Cauliflower (Arizona	broadcast acre. Do not exceed a	Bluegrass, Barnyardgrass, Common
and California Only)	maximum application rate of 2 lbs. per	Groundsel, Common Purslane and
	acre per crop cycle.	Redroot Pigweed. Apply to a weed
		free soil surface. May be applied to
· ·		direct seeded and transplanted crop,
		preplant incorporated or as a surface
		spray after planting. Shallow
		incorporate to a depth of 1-2 inches
		or sprinkler irrigate within 24 hours
		using sufficient water to wet the soil
		to a depth of 2-4 inches. Use the
		lower rate on light soil (coarse

<sup>\*\*</sup>Suppression

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		textured - sandy) and the higher rate
		on heavy soil (fine textured - clay).
Cole Crops - Broccoli, Brussels	2 pounds DEVRINOL 50-DF per	Apply to a weed free surface. May
Sprouts, Cabbage, Cauliflower	broadcast acre. Do not exceed a	be applied to direct seeded and
(Northern Region Only)	maximum application rate of 2 lbs. per	transplanted crop, preplant
	acre per crop cycle.	incorporated or as a surface spray
		after planting. Shallow incorporate
		no deeper than seeding depth or
,		sprinkler irrigate within 24 hours
		using sufficient water to wet the soil
		to a depth of 2-4 inches.
Cole Crops - Broccoli, Brussels	2-4 pounds DEVRINOL 50-DF per	Apply to a weed free surface. May
Sprouts, Cabbage, Cauliflower	broadcast acre. Do not exceed a	be applied to direct seeded and
(Pacific Northwest Only)	maximum application rate of 4 lbs. per	transplanted crop, preplant
	acre per crop cycle.	incorporated or as a surface spray
		after planting. Shallow incorporate
		no deeper than seeding depth or
		sprinkler irrigate within 24 hours
		using sufficient water to wet the soil
		to a depth of 2-4 inches. Use the
		lower rate on light soil (coarse
		textured - sandy) and the higher rate
Colo Crono Proposti Proposts	4 pounds DEVRINOL 50-DF per	on heavy soil (fine textured - clay).  Apply to a weed free surface. May
Cole Crops - Broccoli, Brussels Sprouts, Cabbage, Cauliflower	broadcast acre. Do not exceed a	be applied to direct seeded (except
(Southeast Region Only)	maximum application rate of 4 lbs. per	in Florida) and transplanted crop, as
(Southeast Region Omy)	acre per crop cycle.	a surface spray after planting.
·	dere per exep eyerer	Sprinkler irrigate within 24 hours
		using sufficient water to wet the soil
		to a depth of 2-4 inches.
Cole Crops - Broccoli, Brussels	2-4 pounds DEVRINOL 50-DF per	Apply to a weed free soil surface.
Sprouts, Cabbage, Cauliflower	broadcast acre. Do not exceed a	May be applied to direct seeded and
(Southwest Region Only)	maximum application rate of 4 lbs. per	transplanted crop, preplant,
	acre per crop cycle.	incorporated or as a surface spray
		after planting. Incorporate the
•		surface spray to a shallow depth of
		one inch, avoiding the seed
		placement when mixing the soil.
		Use the lower rate on light soil
		(coarse textured - sandy) and the
		higher rate on heavy soil (fine
		textured - clay).
Eggplants (All Regions)	Before transplanting, apply 2-4	Apply to weed free soil surface.
	pounds DEVRINOL 50-DF per	May be applied to transplanted crop
	broadcast acre. Do not exceed a	only. Use the lower rate on light soil
	maximum application rate of 4 lbs. per	(coarse textured sandy) and the
	acre per crop cycle.	higher rate on heavy soil (fine
		textured-clay).
Peppers (All Regions)	2-4 pounds DEVRINOL 50-DF per	Apply to a weed free soil surface.
Tomatoes (All Regions)	broadcast acre. Do not exceed a	May be applied to direct seeded and
,	maximum application rate of 4 lbs. per acre per crop cycle.	transplanted crop. Use the lower
•	acre per crop cycle.	rate on light soil (coarse textured -
		sandy) and the higher rate on heavy
Pointers (All Pasions)	2-4 Pounds DEVRINOL 50-DF	soil (fine textured-clay).
Peppers (All Regions) Tomatoes (All Regions) grown on	(preplant incorporate) per broadcast	Apply to a weed free soil before the
plastic mulch on plant beds	acre. Do not exceed a maximum	laying of plastic mulch. Soil should be well worked yet moist enough to
plastic fittien on plant beds	acte. Do not exceed a maximum	be well worked yet moist enough to

	application rate of 4 lbs. per acre per crop	permit a thorough incorporation to a
	cycle.	depth of 2 inches. Incorporate the
	v:	same day as applied before laying of
		plastic mulch using equipment
		which will result in uniform
: •		incorporation of the herbicide to
		desired depth. If weed pressure is
		from small seeded annuals, apply to
		the surface of the bed immediately
		in front of the laying of the plastic
		mulch. If soil is dry, water or
		sprinkler irrigate with sufficient
·		water to wet to a depth of 2 to 4
		inches before covering with plastic
		mulch. Apply the plastic mulch over
		the treated soil the same day.
Peppers and Tomatoes grown on	4 Pounds DEVRINOL 50-DF	Apply to a weed free soil surface
plastic mulch on plant beds	(application between rows of plastic	between the rows of plastic.
plastic mater on plant occis	mulch (middles or aisles)) per	Mechanically incorporate or irrigate
	broadcast acre. Do not exceed a	Devrinol into the soil to a depth of 1
	maximum application rate of 4 lbs. per	to 2 inches within 24 hours of
	acre per crop cycle.	application.
		аррисацоп.
Tobacco (All Regions)	Before transplanting, apply 2-4	Apply to a weed free soil surface.
	pounds DEVRINOL 50-DF per	Use the lower rate on light soil
	broadcast acre. Do not exceed a	(coarse textured sandy) and the
	maximum application rate of 4 lbs. per	higher rate on heavy soil (fine
	acre per crop cycle.	textured - clay). In Southeast only:
		Apply up to 3 weeks before
		transplanting. No waiting period is
		necessary.

#### CRANBERRIES:

CAUTION: Do not apply in the springtime to cranberry beds that do not have sprinkler systems for frost control.

Northeast (Connecticut, Delaware, Massachusetts, Maryland, Maine, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, West Virginia)

## Established beds (over one year old)

For control of nutsedge (*Cyperus dentatus*) and rice cutgrass (*Leersia oryzoides*) and purplestem beggarticks (*Bidens connata*), apply DEVRINOL 50-DF at the rates indicated below to a weed free soil surface before spring growth begins or in the fall after harvest. Do not apply when beds are under winter flood.

**In Peat Beds**: Apply 12-18 pounds DEVRINOL 50-DF per acre through ground application equipment or through the overhead sprinkler system. See use directions for application through sprinkler irrigation systems. Do not apply more than 18 pounds Devrinol 50-DF per acre per year.

In Beds with Sandy Soils: Apply 8-12 pounds DEVRINOL 50-DF per acre through ground application equipment or through the sprinkler irrigation system. Do not apply more than 12 pounds Devrinol 50-DF per acre per year.

**New Plantings** 

Apply 6 pounds DEVRINOL 50-DF per acre to a weed free soil surface after planting using ground spray equipment or through the sprinkler irrigation system. Do not apply more than 6 pounds Devrinol 50-DF per acre per year.

#### North Central (Michigan, Minnesota, North Dakota, South Dakota, Wisconsin)

#### Established beds (over one year old)

For control of purplestem beggarticks (*Bidens connata*) and rice cutgrass (*Leersia oryzoides*), apply DEVRINOL 50-DF at the rates indicated below to a weed free soil surface before spring growth begins or in the fall after harvest. Avoid applying when beds may be reflowed for spring frost protection or when soils are water soaked. Do not apply when beds are under winter flood.

In Peat Beds: Apply 12-18 pounds DEVRINOL 50-DF per acre through ground application equipment or through the overhead sprinkler system. See use directions for application through sprinkler irrigation systems. Do not apply more than 18 pounds Devrinol 50-DF per acre per year.

In Beds with Sandy Soils: Apply 8-12 pounds DEVRINOL 50-DF per acre through ground application or through the sprinkler irrigation system. Do not apply more than 12 pounds Devrinol 50-DF per acre per year.

#### **New Plantings**

Apply 6 pounds DEVRINOL 50-DF per acre to a weed free soil surface after planting using ground spray equipment or through the sprinkler irrigation system. Do not apply more than 6 pounds Devrinol 50-DF per acre per year.

## West (Idaho, Montana, Oregon, Washington)

#### Established beds (over one year old)

For control of clover (*Trifolium fimbriatum*), aster (*Aster douglasii*), silverweed cinquefoil\* (silverleaf) (*Potentilla anserina*), red sorrel (sheep sorrel) (*Rumex acetosella*) and birdsfoot trefoil (*Lotus corniculatus*), apply DEVRINOL 50-DF at the rates indicated below to a weed free soil surface before spring growth begins in mid-February or before the end of March. Do not apply after buds start to swell.

In Beds with Heavy Muck Soil: Apply 18 to 30 pounds of DEVRINOL 50-DF per acre through ground application equipment or through the overhead sprinkler system. See use directions for application through sprinkler irrigation systems. Do not apply more than 30 pounds Devrinol 50-DF per acre per year.

**in Peat Beds:** Apply 12 to 18 pounds DEVRINOL 50-DF per acre through ground application equipment or through the overhead sprinkler system. Do not apply more than 18 pounds Devrinol 50-DF per acre per year.

in Beds with Sandy Soils: Apply 8-18 pounds DEVRINOL 50-DF per acre through ground application equipment or through the sprinkler irrigation system. Do not apply more than 18 pounds Devrinol 50-DF per acre per year.

#### **New Plantings**

Apply 6 pounds DEVRINOL 50-DF per acre to a weed free soil surface after planting using ground spray equipment or through the sprinkler irrigation system. Do not apply more than 6 pounds Devrinol 50-DF per acre per year.

\*Suppression only

# CROP USE DIRECTIONS: TRANSPLANTED TOBACCO - POSTTRANSPLANT SURFACE AND LAYBY SURFACE APPLICATIONS (KENTUCKY, MARYLAND, VIRGINIA AND SOUTHEASTERN REGION ONLY)

### WEEDS CONTROLLED:

See list of weeds controlled under DEVRINOL 50-DF preplant incorporated application.

CROP	USE DIRECTIONS	USE RECOMMENDATIONS
Transplanted Tobacco (Kentucky,	Apply 2 to 4 pounds DEVRINOL	Apply to a weed free soil surface.
Maryland, Virginia and Southeastern	50-DF per broadcast acre.	
Region Only)	Do not apply more than 4 pounds	At Transplanting: Apply the
	DEVRINOL 50-DF in any one	recommended amount of
	season.	DEVRINOL 50-DF to the soil
	Reduce rates proportionately for	surface immediately after
	band layby application. Treatments	transplanting. May be applied over
	may follow a preplant incorporated	the top of transplants.
	application of DEVRINOL 50-DF.	At Layby: Apply the recommended amount of DEVRINOL 50-DF in a
	Use 10 to 50 gallons of spray per	band immediately after the layby
	acre. For best results the treatment	cultivation. Apply as a directed
	must reach the zone of weed seed	spray to the row middles.
· ·	germination. If rainfall does not	
	occur within 5 days after	. :
	application, the treatment must be	
	shallowly incorporated or irrigated-	}
	in with sufficient overhead irrigation	
	to wet the soil to a depth of 2 to 4	
	inches.	

# CROP USE DIRECTIONS: SWEET POTATOES - POSTTRANSPLANT SURFACE AND PLANT BED APPLICATIONS

### WEEDS CONTROLLED:

See list of weeds controlled under DEVRINOL 50-DF preplant incorporated application.

CROP	USE DIRECTIONS	USE RECOMMENDATIONS
Sweet Potatoes	Apply 2 to 4 pounds DEVRINOL	Apply to a weed free soil surface.
	50-DF per broadcast acre.	use the lower rate on light soil
<del>.</del>	Do not exceed a maximum application	(coarse textured sandy) and the
	rate of 4 lbs. per acre per crop cycle. Use	higher rate on heavy soils (fine
(x,y) = (x,y) + (y,y) + (y,y	10 to 50 gallons of spray per acre.	textured clay).
	For best results, the treatment must	At Transplanting: (All Regions)
	reach the zone of weed seed	Apply the recommended amount of
	germination. If rainfall does not	DEVRINOL 50-DF to the soil
	occur within 24 hours after	surface immediately after
	application, the treatment must be	transplanting.
•	shallowly incorporated or irrigated-	
	in with sufficient overhead irrigation	Plant Beds: (Southeastern Region
:	to wet the soil to a depth of 2 to 4	Only) Apply the recommended
	inches.	amount of DEVRINOL 50-DF to the
er en		soil surface after sweet potato roots
		are covered with soil, but prior to
		soil cracking and emergence of
		sweet potato plants.

#### **IMPORTANT**

Observe all cautions and limitations on labeling of all products used in combination.

Make only one application per season.

Do not contaminate water by cleaning of equipment or disposal of wastes. Apply these combinations only as specified on this label.

For a tankmix application, apply the recommended dosage (see directions for use) in 10 to 50 gallons of water per acre.

In tankmixes which include GRAMOXONE® EXTRA, add an approved nonionic spreader to the spray mix, such as X-77® Spreader, at the rate of 8 oz. per 100 gallons.

#### DEVRINOL 50-DF/GRAMOXONE MAX COMBINATION

DEVRINOL 50-DF will not control emerged weeds. GRAMOXONE MAX may be used to control existing weeds when applied prior to, or in combination with DEVRINOL.

Refer to the section on DEVRINOL 50-DF surface application for a list of weeds controlled. Follow use directions for DEVRINOL 50-DF surface application. Read the GRAMOXONE MAX label for timing with respect to stage of weed growth and for application methods recommended to minimize crop injury.

For control of all weeds listed, apply 8 pounds DEVRINOL 50-DF and 2 to 3 pints GRAMOXONE MAX per broadcast acre.

Consult the GRAMOXONE MAX label for recommended uses in orchards and vineyards. Then read the crop recommendations for DEVRINOL 50-DF surface application to insure that the combination may be used for a particular crop in your state. Recommended only for the uses specified on the GRAMOXONE MAX and DEVRINOL 50-DF labels. Do not apply this combination to caneberries.

#### DEVRINOL 50-DF/GOAL® 1.6-E COMBINATION (CALIFORNIA ONLY)

For use on almond, apricot, cherry, fig, grape, nectarine, peach, pear, pistachio, plum, prune and walnut in California only. DEVRINOL 50-DF may be used in combination with GOAL® 1.6-E herbicide for control of additional weeds not controlled by DEVRINOL alone.

Additional weeds controlled preemergence by DEVRINOL 50-DF/GOAL 1.6-E tankmix, applied preemergence to a relatively weed-free established berm or soil surface, at recommended rates:

WEEDS CONTROLLED		
Burclover	Medicago hipide	
Filaree, (Redstem,	Erodium cicutarium	
Broadleaf)	Erodium botrys	
Henbit	Lamium amplexicaule	
London rocket	Sisymbrium irio	
Redmaids	Calandrinia caulescens	
Shepherdspurse	Capsella bursa-pastoris	

For control of all weeds listed, apply 8 pounds DEVRINOL 50-DF and 5.0 quarts GOAL 1.6-E (2.0 lb active) per broadcast acre. Spray should be directed to the soil and the base of dormant trees or vines. Use of a low pressure sprayer equipped with a break-away boom and flat fan or off-center (OC) nozzle is recommended. For best results, the treatment must reach the zone of weed germination. Irrigation sufficient to wet the soil to a minimum depth of 2 to 4 inches is recommended for treatments made from November through February 15 if no rainfall occurs within three weeks of application.

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**NOTE:** Applications made in October must be irrigated in (sprinkler or flood) the same day as applied with sufficient water to wet the soil to a minimum depth of 2 to 4 inches.

Cultural practices which result in redistribution or disturbance of the soil surface after treatment will decrease the herbicidal effectiveness of GOAL 1.6-E. For best results from the DEVRINOL 50-DF/GOAL 1.6-E tankmix combination, application should be made to established berms or soil surfaces which are left undisturbed during the time period for which weed control is desired.

Read the GOAL 1.6-E label for specific use directions and precautions.

**NOTE:** To avoid possible crop injury follow these precautions:

- Apply only to dormant fruit or nut trees or grape vines. Do not apply when foliage, buds or fruit/nuts are present.
- Grapes: Do not apply to grapes established less than 3 years. Do not apply to grapes which are not staked or trellised.

#### DEVRINOL 50-DF/GOAL 1.6-E/GRAMOXONE MAX COMBINATION (CALIFORNIA ONLY)

For use on almond, apricot, cherry, fig, grape, nectarine, peach, pear, plum, prune and walnut in California only. DEVRINOL 50-DF/GOAL 1.6-E/GRAMOXONE MAX is recommended for residual preemergence control of susceptible broadleaf and grassy weeds. GRAMOXONE MAX is included in the tankmix to control existing emerged weeds.

For weeds controlled refer to the weed lists for DEVRINOL 50-DF and DEVRINOL 50-DF/GOAL 1.6-E tankmix surface applied.

For control of all weeds listed, apply 8 pounds DEVRINOL 50-DF, 5 quarts GOAL 1.6-E (2.0 lb active) and 2 pints GRAMOXONE MAX per broadcast acre.

Follow the use directions and recommendations for the DEVRINOL 50-DF/GOAL 1.6-E combination. Consult the GRAMOXONE MAX label for timing with respect to stage of weed growth and for application methods recommended to minimize crop injury.

#### DEVRINOL 50-DF/glyphosate COMBINATION

Glyphosate herbicide may be used to control existing weeds when applied prior to or in combination with DEVRINOL 50-DF herbicide.

Follow use directions for DEVRINOL 50-DF surface application. Read the glyphosate label for timing with respect to stage of weed growth and for application methods. For control of all weeds listed, apply 8 pounds of DEVRINOL 50-DF in 10 to 50 gallons of water per broadcast acre. For application rates of glyphosate, refer to the glyphosate label.

Consult the glyphosate label for recommended uses in orchards and vineyards. Then read the crop recommendations for DEVRINOL 50-DF surface application to insure that the combination may be used for a particular crop in your state. Recommended only for the uses specified on the glyphosate and DEVRINOL 50-DF labels.

# DEVRINOL 50-DF/SIMAZINE 80-WP COMBINATION (CALIFORNIA AND PACIFIC NORTHWEST ONLY)

For use on almonds, apples, avocados, grapefruit, grapes, lemons, olives, oranges, peaches, pears, and walnuts in California and apples, filberts, grapes and walnuts in the Pacific Northwest. DEVRINOL 50-DF may be used in combination with SIMAZINE 80-WP herbicide for control of additional weeds not controlled by DEVRINOL 50-DF alone. This tankmix does not control emerged weeds.

Additional weeds controlled by DEVRINOL 50-DF/SIMAZINE 80-WP tankmix, surface applied, at recommended rates:

WEEDS CONTROLLED	
California burclover	Medicago polymorpha
Henbit	Lamium amplexicaule
London rocket	Sisymbrium irio
Marestail (horseweed)	Conyza canadensis
Miners lettuce	Montia perfoliata
Panicle willoweed	Epilobium paniculatum
Redmaids (rockpurslane)	Calandrinia caulescens

For control of all weeds listed, apply 8 pounds DEVRINOL 50-DF and 0.6 to 1.25 pounds SIMAZINE 80-WP per broadcast acre. Limit treatment of almonds, grapes and peaches to a 4 to 8 foot band centered on the tree row, reducing the dosage proportionately. Apply in the fall through early spring, prior to weed emergence. For best, results, the treatment must reach the zone of weed seed germination. Treatments made other than in November through February must be shallowly incorporated or irrigated-in the same day as applied (sprinkler or flood) with sufficient water to wet the soil to a depth of 2 to 4 inches. Irrigation or shallow incorporation is recommended for treatments made from November through February if no rainfall occurs within three weeks of application. Read directions on the SIMAZINE label concerning nozzle and screen sizes.

Use as a directed spray and avoid contact with fruit or foliage. Do not apply when fruit or nuts are on the ground during the harvest period. Do not graze treated areas.

**NOTE:** To avoid possible crop injury follow these precautions.

- Apples and Pears: Make application only to orchards where trees have been established one year or more.
- Almonds and Peaches (California Only): Do not treat trees established in the orchard less than 3 years. Do not treat the Mission variety of almonds. Do not apply to almond trees propagated on plum rootstocks. Do not replant almonds or peaches in treated soil.
- Do not apply on gravelly, sandy, or loamy sand soil, or on soil with less than 1% organic matter. Do not treat areas where water will accumulate (flood or furrow irrigation water should not be applied to any treated areas or allow to stand on treated areas).
- Filberts (Oregon and Washington Only): Do not apply on gravelly, sandy or loamy sand soil.
- Grapes: Do not use in vineyards established less than three years.
- Grapefruit, Lemons, and Oranges (California Only). Do not use in the Imperial, Coachella, or Palo Verde Valleys: Do not use in nurseries. Do not apply to bedded grapefruit, lemons, or oranges. Do not apply to trees under stress from freeze damage for one year after the freeze.
- Walnuts: Do not apply to sandy soil. Leveling and furrowing operations after application will lessen effectiveness of weed control.

# DEVRINOL 50-DF/SIMAZINE 80-WP/GRAMOXONE MAX COMBINATION (CALIFORNIA AND PACIFIC NORTHWEST ONLY)

For use on almonds, apples, avocados, grapefruit, grapes, lemons, olives, oranges, peaches, pears, and walnuts in California and apples, filberts, grapes and walnuts in the Pacific Northwest. DEVRINOL 50-DF/SIMAZINE 80-WP will not control emerged weeds. GRAMOXONE MAX may be used to control existing weeds when applied prior to, or in combination with DEVRINOL/SIMAZINE.

For weeds controlled refer to the weed lists for DEVRINOL 50-DF and DEVRINOL/SIMAZINE tankmix surface applied.

For control of all weeds listed, apply 8 pounds DEVRINOL 50-DF, 0.6 to 1.25 pounds SIMAZINE 80-WP, and 2 to 3 pints GRAMOXONE MAX per broadcast acre.

Follow the use directions and recommendations for the DEVRINOL 50-DF/SIMAZINE 80-WP combination. Consult the GRAMOXONE MAX label for timing with respect to stage of weed growth and for application methods recommended to minimize crop injury.