70506-301	9/19/20	13		123
SAVNAON THE STATES . 10 M S S V A RES . 10 M S S V	VIRONMENTAL PROTECTION AGENCY office of Pesticide Programs egistration Division (7505P) Ariel Rios Building 200 Pennsylvania Ave., NW Washington, D.C. 20460	EPA Reg. Number: 70506-301	Date of Issuance: SEP 1 9 2013	
<u>_x</u> R Re	DF PESTICIDE: egistration registration RA, as amended)	Term of Issuance: Unco Name of Pesticide Produc Devrinol 2-XT S		
Name and Address of Registrant United Phosphorus, Inc. 630 Freedom Business Cen King of Prussia, PA 19406	iter, Suite 402	registration must be submitted.	to and accepted by the	
On the basis of information furnished by the Fungicide and Rodenticide Act. Registration to protect health and the environment, the	belinicommerce in any correspondence on this he registrant, the above named pesticide is hereby on is in no way to be construed as an endorsemen Administrator, on her motion, may at any time su in connection with the registration of a product to use if it has been covered by others.	registered/reregistered under th t or recommendation of this pro spend or cancel the registration	he Federal Insecticide, duct by the Agency. In order of a pesticide in accordance	
	l Statement of Formula (CSF), date red in accordance with FIFRA secti	·		
	all data required for registration rev l registrants of similar products to s	-	our product when the	·
A	ements for storage stability (830.63 8) months of the date of this letter.	17) and corrosion char	acteristics (830.6320)	
 Make the followin a. Assure that the 	g label revisions: establishment number and net con	tents are added to the f	inal printed label.	
	egistration No from 70506-XXX to by of the revised final printed label			· .
	plied with, the registration will be for shipment of the product constit closed for your records.			• • •
If you have any questions regar rudick.maggie@epa.gov.	ding this notice, please contact Ma	ggie Rudick of my staf	f at 703-347-0257 or	
Signature of Approving Official:	\sim	Date:	1 9 2013	
Kable Bo Davis Product Manager 25 Herbicide Branch Registration Division (7505	P)	8		

Devrinol 2-XT label rev. 9/19/13

· · · · ·			
ACCEPTEL			
ACCEFICE	: 1		
SEP 1 9 2013	4	GROUP	15 HERBICIDE
Under the Federal Insecticide. Fungicide, and Rodenticide Act.	DEVRINOL®	2-XT	
Fungicide, and Robern Con- as amended, for the pesticide registered under EPA Reg.No. 7050(0-30)	Selective Her		
	se on certain Nuts, Small Fruits	, Vegetables and Tol	bacco
ACTIVE INGREDIEN	F:		
	· · · · · · · · · · · · · · · · · · ·		22.0%
	۲S:		
	liter or 2 pounds active ingredie		
0	KEEP OUT OF REACH (
	CAUTION		
	FIRST AID		· · · · · · · · · · · · · · · · · · ·
IF IN EYES:			
Hold eve open and	d rinse slowly and gently with wa	ater for 15-20 minute	s. Remove contact
lenses, if present, afte	r the first 5 minutes, then contin	ue rinsing eye.	
	trol Center or doctor for treatme		
IF SWALLOWED:			
Call a Poison Cont	trol Center or doctor immediatel	y for treatment advic	Э.
Have person sip a	glass of water if able to swallow	Ι.	
Do not give anythin	ng to an unconscious person.		
Do not induce vom	niting unless told to by a Poison	Control Center or do	ctor.
IF ON SKIN OR CLO			
 Take off contamina 			
	ately with plenty of water for 15		
	trol Center or doctor for treatme	nt advice.	
IF INHALED:	,		
Move person to fre		· · · · · · · · · · ·	
If person is not bre	eathing, call 911 or an ambulanc	e, then give artificial	respiration,
	o-mouth if possible.		
• Call a Poison Cont	trol Center or doctor for further t	reatment advice.	
		line e Deisen Ot	Conton on dooton
	ainer or label with you when cal		
	or emergency medical treatmer	а, соптаст тре Коску	Mountain Poison
Control Center at 1-86	<u>/0-0/3-00/1</u>		
	·		
For Chemical Emerg	ency: Spill, leak, fire, exposure	or accident, call CHE	EMTREC 1-800-424-
	9300.		

EPA Reg. No. 70506-

EPA Est. No

United Phosphorus, Inc. 630 Freedom Business Center, Suite 402

King of Prussia, PA 19406 • 1-800-438-6071

NET WEIGHT: ___ gallons

Page 1

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical resistant gloves.
- Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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. Pilots must use an enclosed cockpit that meets the requirements in the Worker Protection Standard.

User Safety Recommendations

Users should:

• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

• Remove clothing/PPE 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

This product is toxic to fish. 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. Do not allow people or pets to enter the treated area until dusts have settled.

USE PRECAUTIONS

Read all instructions before using.

- Use only for labeled purposes and at labeled rates.
- Use as a directed spray and avoid contact with fruit or foliage.

- Except where specifically noted, DEVRINOL 2-XT 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.

USE RESTRICTIONS

- Do not apply to frozen ground.
- Do not apply when fruit or nuts are on the ground during the harvest period.
- Do not overdose.
- Do not apply when weather conditions favor drift from areas treated.
- Do not graze treated areas.
- Do not contaminate irrigation water or water used for domestic purposes.
- Do not graze or harvest for food or feed purposes earlier than maturity.
- Do not mix or allow to come into contact with oxidizing agents as hazardous chemical reactions may occur.

CROP ROTATION RESTRICTIONS

- 60-day plantback interval for leafy vegetables
- 180-day plantback interval for cereal grains
- 365-day plantback interval for all other crops not listed on this label

Crops listed on this label may be planted immediately after treatment, unless otherwise directed in this label.

When DEVRINOL 2-XT herbicide is used on tobacco at up to 4 pounds active ingredient per acre, 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 2-XT herbicide in small grains and must be destroyed by plowing under or otherwise prevented from reaching food or feed production.

When using DEVRINOL 2-XT herbicide with other registered pesticides, always refer to the restrictive instructions and precautions on the other product label and comply with the most restrictive rotational crop directions.

RESISTANCE MANAGEMENT RECOMMENDATIONS

DEVRINOL 2-XT herbicide is a Group 15 herbicide. Any weed population may contain or develop plants naturally resistant to Group 15 herbicides. The resistant biotypes may dominant the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

To delay herbicide resistance.

- Where possible, rotate the use of DEVRINOL 2-XT herbicide or other Group 15 herbicides with different herbicide groups that control the same weed species in the field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM (Integrated Pest Management) program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development, Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and

- planting clean seed.
- Contact your local extension specialist, certified crop advisors and/or manufacturer for herbicide resistance-management recommendations for specific crops and weed biotypes.

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:

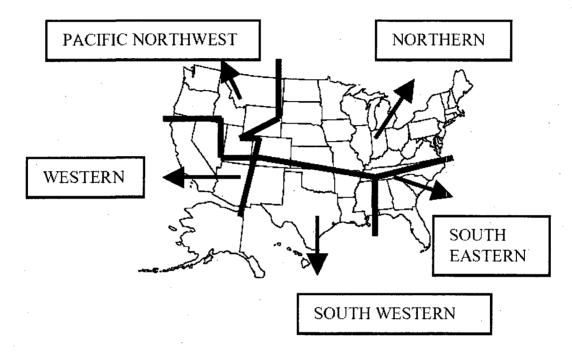
- Coveralls.
- Shoes plus socks.
- Chemical resistant gloves made of any waterproof material.
- Eye wear.

PRODUCT INFORMATION

DEVRINOL 2-XT herbicide is a soluble concentrate selective surface-applied or incorporated herbicide for use in certain types of newly planted or established crops. DEVRINOL 2-XT herbicide does not control established weeds. All weed growth, crop stubble and/or leaf litter in the fields that can interfere with soil coverage must be thoroughly worked into the soil or removed from the treatment zone 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 labeled rate of DEVRINOL 2-XT herbicide in 10 to 100 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.

REGIONAL USE MAP



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

Western and Pacific Northwest: Three weeks (fall through early spring) or 24-72 hours (remainder of year).

Other Regions and Period Unless Otherwise Specified: 24-72 hours.

APPLICATIONS THROUGH IRRIGATION SYSTEMS

• For use in the Western Region on tree crops and grapevines only for preemergence control of listed weeds.

- Do not allow treatment to contact foliage or crop.
- Remove existing weed growth before application.
- Meter the DEVRINOL 2-XT herbicide into the irrigation water during the entire period.
- Apply with sufficient water to wet the soil to a depth of 4-8 inches.
- Good agitation should be maintained during the entire application period.
- Avoid run-off.

USE PRECAUTIONS:

- Apply this product through center pivot, lateral move, end tow, side wheel roll, traveler, microsprinkler, solid set, or hand move sprinkler systems, or flood (basin); furrow; border irrigation systems. Do not apply this product through any other type of irrigation system.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.
- If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- 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.
- 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:

- 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.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 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.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 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.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

FOR FLOOD (BASIN), FURROW AND BORDER IRRIGATION:

• 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.

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- Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:
- 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.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 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.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 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.

TANK MIXTURES – LABELED CROPS

DEVRINOL 2-XT may be tank mixed with other pre-emergence herbicides labeled for the same crops to provide additional weed control and for control of weeds not listed on the DEVRINOL 2-XT label, and/or with contact herbicides to control emerged weeds at the time of application. Read and follow all applicable directions, restrictions and precautions on product labels, deferring to the most restrictive directions.

Always follow the more restrictive label instructions for tank mixes.

For a tank mix application, apply the specified dosage (see directions for use) in 10 to 100 gallons of water per acre.

WEEDS CONTROLLED BY DEVRINOL 2-XT HERBICIDE BROADCAST APPLICATION

For control of all weeds listed, apply 2 gallons (8 quarts) DEVRINOL 2-XT herbicide per broadcast acre to the soil surface. Apply in the fall through early spring prior to weed emergence. Do not apply DEVRINOL 2-XT herbicide 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.

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Reduce rates proportionately for band or strip treatments.

NOTE: DEVRINOL 2-XT herbicide does not control established weeds.

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		
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		

Lactuca serriola	
Malva parviflora	
Amaranthus retroflexus	
Matricaria matricarioides	
Portulaca oleracea	
Trianthema portullacastrum	
Ambrosia artemisiifolia	
Sonchus oleraceus	
	Malva parvifloraAmaranthus retroflexusMatricaria matricarioidesPortulaca oleraceaTrianthema portullacastrumAmbrosia artemisiifolia

*From seed

**Suppression

WEEDS CONTROLLED BY DEVRINOL 2-XT PREPLANT INCORPORATED APPLICATION

For control of all weeds listed, apply 2 to 4 quarts DEVRINOL 2-XT herbicide as a preplant incorporated application.

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 using equipment which will result in uniform incorporation of the herbicide to the desired depth. Whenever a rate range is indicated for DEVRINOL 2-XT herbicide, use the lower rate on light soil (coarse textured-sandy) and the higher rate on heavy soil (fine textured-clay).

NOTE: DEVRINOL 2-XT herbicide does not control established weeds.

ANNUAL GRASSES:			
Barnyardgrass, Junglerice	Echinochloa spp.		
Crabgrass	Digitaria spp.		
Foxtails	Setaria		
Giant Foxtail	S. faberi		
Green Foxtail	S. viridis		
Yellow Foxtail	S. lutescens		
Goosegrass	Eleusine indica		
Seedling Johnsongrass	Sorghum halepense		
Panicums	Panicum		
Fall Panicum	P. dichotomiflorum		
Witchgrass	P. capillare		
Stinkgrass	Eragrostis cilianensis		
ANNUAL BROADLEAF WEEDS:			
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		

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Ambrosia artemisiifolia

*Controlled at 4 quarts DEVRINOL 2-XT **Suppression

USE DIRECTIONS

DEVRINOL 2-XT herbicide is labeled for use on the following crops. Unless otherwise noted, DEVRINOL 2-XT herbicide can be used in ALL REGIONS. Please refer to Regional Map under PRODUCT INFORMATION.

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

BERRY CROPS

Apply a maximum of once per year.

CROP	USE RATE/ACRE	USE DIRECTIONS AND RESTRICTIONS
Blackberry (including bingleberry, boysenberry; dewberry, lowberry, marionberry, olallieberry,	2 gallons/A (4 lb ai)	Apply to a weed free soil surface. May be applied to newly planted and established crop.
youngberry) Blueberry Currant		Restrictions : Do not apply more than 2 gallons per acre per crop cycle.
Elderberry Gooseberry Huckleberry		
Loganberry Raspberry (black and red)		
Strawberries established plantings	2 gallons/A (4 lb ai)	Spring Application - Apply after removal of straw mulch. Surface should be weed free. Water into soil to a depth of 2 to 4 inches using natural rainfall or irrigation within 24-72 hours of application for best results.
		Restrictions : Do not exceed a maximum application rate of 2 gallons per acre per crop cycle. Do not apply from bloom through harvest.
		Fall Application - Apply before winter protective mulch is applied over plants. Water into soil to a depth of 2 to 4 inches using natural rainfall or irrigation within 24-72 hours of application.
		Restrictions : Do not apply to frozen ground. Do not exceed a maximum application rate of 2 gallons per acre per crop cycle.

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CROP	USE RATE/ACRE	USE DIRECTIONS AND
		RESTRICTIONS
Strawberries	2 gallons/A	Apply to a weed free soil surface. May be
	(4 lb ai)	applied to newly transplanted crop. Delay
not grown with plastic mulch		application until the desired number of
		daughter plants has become established.
		Restrictions : Do not exceed a maximum
		application rate of 2 gallons per acre per
· · ·		crop cycle.
		Do not apply from bloom through harvest.
Strawberries	2 gallons/A	Apply to a weed free soil before the laying
Ollawbernes	(4 lbs ai)	of plastic mulch. Soil should be well
grown with plastic mulch on		worked yet moist enough to permit a
grown with plastic mulch on	Dranlant	
plant beds	Preplant	thorough incorporation to a depth of 2
	incorporated	inches. Incorporate within 24-72 hours
(All Regions except		before laying of plastic mulch using
Southeastern)		equipment which will result in uniform
		incorporation of the herbicide to desired
Strawberries	1-2 gallons	depth.
	(2-4 lbs ai)	
grown with plastic mulch on		If weed pressure is from small seeded
plant beds	Preplant	annuals, apply to the surface of the bed
	incorporated	immediately in front of the laying of the
(Southeastern Region)		plastic mulch. If soil is dry, water or
(courreactor region)		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 within
· · · ·		24-72 hours.
- -		
		Restrictions: Do not exceed a maximum
		. 1
		application rate of 2 gallons per acre per
	· · ·	crop cycle.
	0	
Strawberries	2 gallons/A	Use a shielded sprayer or properly
	(4 lbs ai)	spaced drop nozzles to apply to a weed
grown with plastic mulch on		free soil surface between the rows of
plant beds	Application between	plastic. Mechanically incorporate or
	rows of plastic	irrigate DEVRINOL 2-XT herbicide into
	mulch, middles, or	the soil to a depth of 1 to 2 inches within
	aisles	24-72 hours of application. In the event
		of emerged weed growth being present,
•		tank mix 2 gallons of DEVRINOL 2-XT
		herbicide with the correct amount of a
		labeled burndown herbicide to get
		burndown and residual control.
		Destrictions: Do not every diameter
		Restrictions: Do not exceed a maximum
	·	application rate of 2 gallons per acre per
		crop cycle. Do not apply from bloom
	· · ·	through harvest.

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CROP	WEEDS CONTROLLED	USE RATE/ACRE	USE DIRECTIONS AND RESTRICTIONS
Cranberries Established beds (over one year old) (Northeast: Connecticut,	Nutsedge (Cyperus dentatus) Rice Cutgrass (Leersia oryziodes)		Apply 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. CAUTION: Do not apply in the spring to cranberry beds that do not have sprinkler systems for frost control.
Delaware, Massachusetts, Maryland, Maine, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, West Virginia)	Purplestem Beggarticks <i>(Bidens connate)</i>	In Peat Beds: 12-18 quarts/A (6 – 9 lbs ai)	In Peat Beds: Apply through ground application equipment or through the overhead sprinkler system. See use directions for application through sprinkler irrigation systems. Restrictions: Do not apply more than 18 quarts per acre per year.
		In Beds with Sandy Soils: 8 – 12 quarts/A (4 – 6 lbs ai)	In Beds with Sandy Soils: Apply through ground application equipment or through the sprinkler irrigation system. Restrictions: Do not apply more than 12 quarts DEVRINOL 2-XT per acre per year.
Cranberries New plantings (Northeast:		6 quarts/A (3 lbs ai)	Apply to a weed free soil surface after planting using ground spray equipment or through the sprinkler irrigation system.
Connecticut, Delaware, Massachusetts, Maryland, Maine, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, West Virginia)			Restrictions : Do not apply more than 6 quarts DEVRINOL 2-XT herbicide per acre per year.
Cranberries Established beds (over one year old) (North Central : Michigan, Minnesota, North Dakota, South	Purplestem beggarticks (<i>Bidens connata</i>) Rice Cutgrass (<i>Leersia</i> <i>oryzoides</i>)		Apply 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. CAUTION: Do not apply in the spring to cranberry beds that do not have

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Dakota, Wisconsin)			sprinkler systems for frost control.
		In Peat Beds: 12-18	In Peat Beds: Apply through ground application equipment or through the overhead sprinkler system. See use
		quarts/A (6 – 9 lbs ai)	directions for application through sprinkler irrigation systems.
			Restrictions : Do not apply more than 18 quarts DEVRINOL 2-XT per acre per year.
		In Beds with Sandy Soils:	In Beds with Sandy Soils: Apply through ground application or through
			the sprinkler irrigation system.
		8-12 quarts/A (4 – 6 lbs ai)	Restrictions: Do not apply more than 12 quarts per acre per year.
Cranberries New plantings		6 quarts (3 lb ai)	Apply to a weed free soil surface after planting using ground spray
(North Central: Michigan,			equipment or through the sprinkler irrigation system.
Minnesota, North Dakota, South Dakota, Wisconsin)			Restrictions : Do not apply more than 6 quarts DEVRINOL 2-XT per acre
Dakota, Wisconsin)			per year. Apply DEVRINOL 2-XT at the rates
Cranberries	Clover		indicated below to a weed free soil
Established beds (over one year old)	(Trifolium fimbriatum)	· .	surface before spring growth begins in mid-February or before the end of March.
	Aster (Aster		
(West : Idaho, Montana, Oregon,	douglasii)	In Beds with Heavy Muck	In Beds with Heavy Muck Soil: Apply through ground application
Washington)	Silverweed	Soil:	equipment or through the overhead
	Cinquefoil* (silverleaf)	18 quarts/A	sprinkler system. See use directions for application through sprinkler
	(Silveriear) (Potentilla anserina),	(9 lbs ai)	irrigation systems.
	Red Sorrel	In Peat Beds: 12-18	In Peat Beds: Apply through ground application equipment or through the
	(sheep sorrel)	quarts/A	overhead sprinkler system.
	(Rumex acetosella)	(6 – 9 lbs ai) In Beds with	In Beds with Sandy Soils: Apply
	,	Sandy Soils:	through ground application equipment
	Birdsfoot Trefoil (<i>Lotus</i>	8-18 quarts/A	or through the sprinkler irrigation system.
	corniculatus)	(4 – 9 lbs ai)	
	*Suppression only		Restrictions : Do not apply after buds start to swell. CAUTION: Do not
			apply in the spring to cranberry beds
			that do not have sprinkler systems for frost control. Do not apply more than
			18 quarts DEVRINOL 2-XT acre per
	l	I	acre per year.

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Cranberries New Plantings	8 quarts/A (3 lbs ai)	Apply to a weed free soil surface after planting using ground spray equipment or through the sprinkler
(West : Idaho, Montana, Oregon,		irrigation system.
Washington)	:	Restrictions : Do not apply more than 8 quarts DEVRINOL 2-XT per acre per year.

FRUIT CROPS Apply a maximum of once per year.

CROP	USE RATE/ACRE	USE DIRECTIONS AND RESTRICTIONS
Kiwi Fruit (Western Region Only	2 gallons/A (4 lb ai)	Apply to a weed free soil surface. May be applied to newly planted and established crop.
		Restrictions : Do not apply within 90 days of harvest.
		Do not apply more than 2 gallons per acre per crop cycle.
Persimmons	2 gallons/A	Apply to a weed free soil surface. May be
(Western Region Only)	(4 lb ai)	applied to established crop only. Restrictions : Do not apply within 100 days of harvest.

HERB CROPS

CROP	RATE DEVRINOL 2-XT/A	USE DIRECTIONS AND RESTRICTIONS
Basil, Marjoram, Rosemary, Savory (summer and winter)	2-4 quarts/A (1 – 2 lb ai)	Apply as a preplant/preemergence application. Apply with ground spray equipment only, in 20-100 gallons of water per acre. Apply to a weed free surface. Shallow incorporate no deeper than seeding depth or sprinkler irrigate within 24-72 hours using sufficient water to wet the soil to a depth of 2 to 4 inches. Use the lower rate on light soil (coarse textured- sandy) and the higher rate on heavy soil (fine textured-clay).
		Restrictions : Apply a maximum of one application per year. There is no

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CROP	RATE DEVRINOL 2-XT/A	USE DIRECTIONS AND RESTRICTIONS
	·	restriction between last application and harvest.
Peppermint, Spearmint	2 gallons/A (4 lb ai)	Apply to a weed free soil surface. Mint: may be applied to newly planted and established crops. When used on established crops, apply DEVRINOL 2-XT only to stands that have been established for at least one growing season. When used on recently planted crops, application may be made
		immediately after planting. Restrictions : Do not exceed a maximum application rate of 2 gallons per acre per crop cycle.

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CROP	USE RATE/ACRE	USE DIRECTIONS AND RESTRICTIONS
Tobacco	2-4 quarts/A	Apply to a weed free soil surface.
	(1-2 lb ai)	Use the lower rate on light soil
		(coarse textured sandy) and the
	Before Transplanting	higher rate on heavy soil (fine
		textured - clay). In Southeast only:
		Apply up to 3 weeks before
		transplanting. No waiting period is
	· ·	necessary.
		Restrictions: Do not exceed a
	· · ·	maximum application rate of 4 quarts
		per acre per crop cycle.
Tobacco	2-4 quarts/A (1-2 lb ai)	Apply to a weed free soil surface.
(Kentucky, Maryland,		Apply to the soil surface immediately
Virginia and	At Transplanting	after transplanting. May be applied
Southeast Region Only)		over the top of transplants.
		For best results the treatment must
		reach the zone of weed seed
		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 RATE/ACRE	USE DIRECTIONS AND RESTRICTIONS
		Restrictions: Do not apply more
		than 4 quarts per acre per crop cycle.
Tobacco	2-4 quarts/A	Reduce rates proportionately for
	(1-2 lb ai)	band layby application. Layby
(Kentucky, Maryland,		treatments may follow a preplant
Virginia and	Layby Application	incorporated application of
Southeast Region Only)	Between Rows	DEVRINOL 2-XT herbicide.
		Apply the labeled amount in a band within 24-72 hours after the layby cultivation. Apply as a directed spray to the row middles.
		Apply to a weed-free soil surface. For best results the treatment must reach the zone of weed seed 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.
		Restrictions : Do not apply more than 4 quarts per acre per crop cycle.

TREE NUT AND VINE CROPS

Apply a maximum of once per year.

CROP	USE RATE/ACRE	USE DIRECTIONS AND RESTRICTIONS
Almonds Filberts Pecans	2 gallons/A (4 lb ai)	Apply to a weed free soil surface. May be applied to newly planted and established crop.
		Restrictions : Do not apply within 50 days of harvest for filberts or pecans,
· · ·		Do not apply more than 2 gallons per acre per crop cycle.
Grapes	2 gallons/A (4 lb ai)	Apply to a weed free soil surface. May be applied to newly planted and established crop.
		Restrictions : Do not apply within 70 days of harvest.
		Do not apply more than 2 gallons per acre per crop cycle

VEGETABLE CROPS

CROP	USE RATE/ACRE	USE DIRECTIONS AND RESTRICTIONS
Asparagus	2 gallons/A (4 lbs ai)	Apply to a weed free soil surface. Asparagus: may be applied to established crop only.
		When used on established crops, apply only to stands that have been established for at least one growing season.
		Restrictions : Do not exceed a maximum application rate of 2 gallons per acre per crop cycle.
Broccoli (Maine Only)	2-4 quarts/A (1-2 lbs ai)	Apply to weed free surface. May be applied to direct seeded and transplanted crop, preplant incorporated or as a surface spray after planting. Shallow incorporate no deeper than seeding depth or sprinkler irrigate within 24-72 hours using sufficient water to wet the soil to a depth of 4-8 inches. Use the lower rate on light soil (coarse textured-sandy) and the higher rate on heavy soil (fine textured-clay).
		Restrictions : Do not apply more than 8 quarts per acre per crop season. Do not exceed a maximum application rate of 4 quarts per acre per crop cycle.
(Arizona and California Only)	1-2 quarts/A (1/2 – 1 lb ai)	For suppression only of Annual Bluegrass, Barnyardgrass, Common Groundsel, Common Purslane, and
Broccoli, Brussels Sprouts, Cauliflower		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 24-72 hours using sufficient water to wet
· · · · · ·		the soil to a depth of 4-8 inches. Use the lower rate on light soil (coarse textured - sandy) and the higher rate on heavy soil (fine textured - clay).

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CROP	USE RATE/ACRE	USE DIRECTIONS AND RESTRICTIONS
		Restrictions: Do not exceed a
		maximum application rate of 2 quarts
		per acre per crop cycle.
(Northern Region Only)	2 quarts/A	Apply to a weed free surface. May
Broccoli,	(1 lb ai)	be applied to direct seeded and
Brussels Sprouts,		transplanted crop, preplant
Cabbage,	· ·	incorporated or as a surface spray
Cauliflower,		after planting. Shallow incorporate
Collards, Kale,		no deeper than seeding depth or
Mustard Greens		sprinkler irrigate within 24-72 hours
Mustard Greens		using sufficient water to wet the soil to a depth of 4-8 inches.
		to a depth of 4-6 incres.
		Restrictions: Do not exceed a
	· ·	maximum application rate of 2 quarts
		per acre per crop cycle.
(Pacific Northwest Only)	2-4 quarts/A	Apply to a weed free surface. May
Broccoli	(1-2 lbs ai)	be applied to direct seeded and
Brussels Sprouts,		transplanted crop, preplant
Cabbage,		incorporated or as a surface spray
Cauliflower,		after planting. Shallow incorporate
Collards,		no deeper than seeding depth or
Kale,		sprinkler irrigate within 24-72 hours
Mustard Greens		using sufficient water to wet the soil
		to a depth of 4-8 inches. Use the
		lower rate on light soil (coarse
	· · ·	textured - sandy) and the higher rate
		on heavy soil (fine textured - clay).
		Restrictions: Do not exceed a
		maximum application rate of 4 quarts
		per acre per crop cycle.
(Southeast Region Only)	4 quarts/A	Apply to a weed free surface. May
Broccoli,	(2 lbs ai)	be applied to direct seeded (except in
Brussels Sprouts,		Florida) and transplanted crop, as a
Cabbage		surface spray after planting.
Cauliflower,		Sprinkler irrigate within 24-72 hours
Collards,		using sufficient water to wet the soil
Kale,		to a depth of 4-8 inches.
Mustard Greens		Restrictions: Do not exceed a
		maximum application rate of 4 quarts
		per acre per crop cycle.
(Southwest Region Only)	2-4 quarts/A	Apply to a weed free soil surface.
Broccoli,	(1-2 lbs ai)	May be applied to direct seeded and
Brussels Sprouts,		transplanted crop, preplant,
Cabbage		incorporated or as a surface spray
Cauliflower,		after planting. Incorporate the
Collards,		surface spray to a shallow depth of
Kale,		one inch, avoiding the seed
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CROP	USE RATE/ACRE	USE DIRECTIONS AND RESTRICTIONS
Mustard Greens		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).
· · · ·	ι 	Restrictions : Do not exceed a maximum application rate of 4 quarts per acre per crop cycle.
Eggplants	2-4 quarts/A (1-2 lbs ai)	Apply before transplanting, to weed free soil surface. May be applied to transplanted crop only. Use the lower rate on light soil (coarse textured sandy) and the higher rate on heavy soil (fine textured-clay).
		Restrictions : Do not exceed a maximum application rate of 4 quarts per acre per crop cycle.
Peppers (including pimento, bell, hot and sweet) Tomatoes	2-4 quarts/A (1-2 lb ai)	Apply to a weed free soil surface. May be applied to direct seeded and transplanted crop. Use the lower rate on light soil (coarse textured - sandy) and the higher rate on heavy soil (fine textured-clay).
		Restrictions : Do not exceed a maximum application rate of 4 quarts per acre per crop cycle.
Eggplants, Peppers (including pimento, bell, hot and	2-4 quarts/A (1-2 lb ai)	Apply to a weed free soil before the laying of plastic mulch.
sweet), Tomatoes grown on plastic mulch on plant beds	Preplant Incorporated	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.
		Restrictions : Do not exceed a maximum application rate of 4 quarts per acre per crop cycle.
Eggplants, Peppers (including pimento, bell, hot and	4 quarts/A (2 lb ai)	Apply to a weed free soil surface between the rows of plastic. Mechanically incorporate or irrigate
sweet),	Application between rows	into the soil to a depth of 1 to 2

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CROP	USE RATE/ACRE	USE DIRECTIONS AND RESTRICTIONS
Tomatoes	of plastic mulch, middles	inches within 24-72 hours of
grown with plastic mulch	or aisles	application.
on plant beds		Restrictions: Do not exceed a
		maximum application rate of 4 quarts
		per acre per crop cycle.
Sweet Potatoes	2-4 quarts/A (1-2 lb ai).	Apply to a weed free soil surface. Use the lower rate on light soil (coarse textured sandy) and the higher rate on heavy soils (fine textured clay).
		lextured clay).
		For best results, the treatment must reach the zone of weed seed germination. Shallow incorporate to a depth of 1-2 inches or sprinkler irrigate within 24-72 hours using sufficient overhead irrigation to wet the soil to a depth of 2-4 inches.
		At Transplanting: (All Regions) Apply the labeled amount of DEVRINOL 2-XT herbicide to the soil surface immediately after transplanting
		Plant Beds: (Southeast Region Only) Apply the labeled amount of DEVRINOL 2-XT herbicide to the soil surface after sweet potato roots are covered with soil, but prior to soil cracking and emergence of sweet potato plants.
	· · · · · · · · · · · · · · · · · · ·	Restrictions : Do not exceed a maximum application rate of 4 quarts per acre per crop cycle

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: Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying.

Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store

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rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities

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. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User.

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