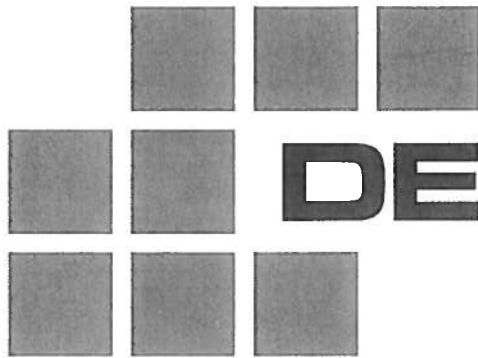




STATE OF HAWAII  
 Department of Agriculture  
**ACCEPTED**  
 LICENSE NO. **8026.79**

GROUP 15 HERBICIDE



# DEVIRINOL® DF-XT

SELECTIVE HERBICIDE

**For use on certain Nuts, Small Fruits, Vegetables and Tobacco**

**ACTIVE INGREDIENT**

Napropamide ..... 50%

**OTHER INGREDIENTS** ..... 50%

**TOTAL** ..... 100%

EPA Reg. No. 70506-36

EPA Est. No. 62171-MS-003

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**FIRST AID**

**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 eye.
- Call a Poison Control Center or doctor for treatment advice.

**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 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 emergency medical treatment, contact the Rocky Mountain Poison Control Center at 1-866-673-6671.



**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.**



**NET WEIGHT: 4 POUNDS**



**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

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)**

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.

Do not overdose. Do not apply when weather conditions favor drift from areas treated. Except where specifically noted, DEVRINOL® DF-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. 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 DF-XT.

**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 DF-XT is used on tobacco at up to 4 pounds 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 DF-XT in small grains and must be destroyed by plowing under or otherwise prevented from reaching food or feed production.

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 DF-XT 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.

**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 DF-XT is a selective surface-applied or incorporated herbicide for use in certain types of newly planted or established crops. DEVRINOL DF-XT 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 DF-XT 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 DF-XT alone, or in combination with other wettable powders, make a slurry and add to a nearly filled spray tank with adequate agitation. This will enhance initial mixing. Contact herbicides and spreaders should always be added to a nearly filled spray tank. Never add them to the slurry.

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

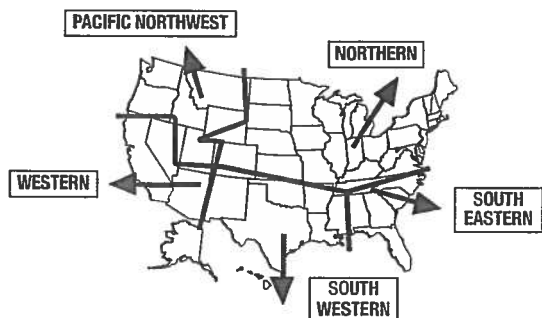
**WEST:** Three weeks (Fall through Early Spring) or 24 hours (remainder of year).

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

**OTHER REGIONS AND PERIODS UNLESS OTHERWISE SPECIFIED:** 24 hours. 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.



**APPLICATIONS THROUGH IRRIGATION SYSTEMS**

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

**Western Region (Tree crops and Grapevines Only):** DEVRINOL DF-XT may be applied at the labeled rates through irrigation water for preemergence control of listed weeds in grapevines and labeled tree crops.

**USE PRECAUTIONS:**

- A. 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.
- 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 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.
  - 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.
  - f. 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 8 LBS. DEVRINOL DF-XT PER ACRE

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

WEEDS CONTROLLED	
<b>ANNUAL GRASSES:</b>	
Barnyardgrass, Junglerice	<i>Echinochloa</i> spp.
Foxtail Barley	<i>Hordeum jubatum</i>
Wild Barley	<i>Hordeum leporinum</i>
Annual Bluegrass	<i>Poa annua</i>
Bromes	<i>Bromus</i>
Cheatgrass	<i>B. secalinus</i>
Downy Brome	<i>B. tectorum</i>
Ripgut Brome	<i>B. rigidus</i>
Soft Chess	<i>B. mollis</i>
Canarygrass	<i>Phalaris canariensis</i>
Large (Hairy) Crabgrass	<i>Digitaria sanguinalis</i>
Smooth Crabgrass	<i>Digitaria ischaemum</i>
Southwestern Cupgrass	<i>Eriochloa gracilis</i>
Foxtail	<i>Setaria</i>
Bristly Foxtail	<i>S. verticilla</i>
Giant Foxtail	<i>S. faberi</i>
Green Foxtail	<i>S. viridis</i>
Yellow Foxtail	<i>S. lutescens</i>
Goosegrass	<i>Eleusine indica</i>
Seedling Johnsongrass	<i>Sorghum halepense</i>
Wild Oats	<i>Avena fatua</i>
Panicums	<i>Panicum</i>
Guineagrass	<i>P. Maximum</i>
Fall Panicum	<i>P. dichotomiflorum</i>
Texas Panicum	<i>P. texanum</i>
Witchgrass	<i>P. capillare</i>
Italian Ryegrass	<i>Lolium multiflorum</i>
Sandbur	<i>Cenchrus</i> spp.
Mexican Sprangletop	<i>Leptochloa uninervia</i>
Red Sprangletop	<i>Leptochloa filiformis</i>
Stinkgrass	<i>Eragrostis cilianensis</i>
<b>ANNUAL BROADLEAF WEEDS:</b>	
Carpetweed	<i>Mollugo verticillata</i>
Common Chickweed	<i>Stellaria media</i>
Coast Fiddleneck	<i>Amsinckia intermedia</i>
Cudweed, Purple	<i>Gnaphalium purpureum</i>
Redstem Filaree	<i>Erodium cicutarium</i>
Common Groundsel	<i>Senecio vulgaris</i>
Prostrate Knotweed	<i>Polygonum aviculare</i>
Lambsquarters	<i>Chenopodium album</i>
Prickly Lettuce	<i>Lactuca scariola</i>
Little Mallow*	<i>Malva parviflora</i>
Redroot Pigweed	<i>Amaranthus retroflexus</i>
Pineappleweed	<i>Matricaria matricarioides</i>
Common Purslane	<i>Portulaca oleracea</i>
Horse Purslane	<i>Trianthema portulacastrum</i>
Common Ragweed**	<i>Ambrosia artemisiifolia</i>
Annual Sowthistle	<i>Sonchus oleraceus</i>

\*From seed \*\*Suppression

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 lbs. DEVRINOL DF-XT per broadcast acre to the soil surface. Apply in the fall through early spring prior to weed emergence. Do not apply DEVRINOL DF-XT 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.

## WEEDS CONTROLLED BY 2 TO 4 LBS. DEVRINOL DF-XT PREPLANT INCORPORATED APPLICATION

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

WEEDS CONTROLLED	
<b>ANNUAL GRASSES:</b>	
Barnyardgrass, Junglerice	<i>Echinochloa</i> spp.
Crabgrass	<i>Digitaria</i> spp.
Foxtails	<i>Setaria</i>
Giant Foxtail	<i>S. faberi</i>
Green Foxtail	<i>S. viridis</i>
Yellow Foxtail	<i>S. lutescens</i>
Goosegrass	<i>Eleusine indica</i>
Seedling Johnsongrass	<i>Sorghum halepense</i>
Panicums	<i>Panicum</i>
Fall Panicum	<i>P. dichotomiflorum</i>
Witchgrass	<i>P. capillare</i>
Stinkgrass	<i>Eragrostis cilianensis</i>
<b>ANNUAL BROADLEAF WEEDS:</b>	
Carpetweed	<i>Mollugo verticillata</i>
Purple Cudweed	<i>Gnaphalium purpureum</i>
Galinsoga*	<i>Galinsoga</i> spp.
Lambsquarters	<i>Chenopodium album</i>
Redroot Pigweed	<i>Amaranthus retroflexus</i>
Smooth Pigweed	<i>Amaranthus hybridus</i>
Common Purslane	<i>Portulaca oleracea</i>
Florida Pusley	<i>Richardia scabra</i>
Common Ragweed**	<i>Ambrosia artemisiifolia</i>

\*Controlled at 4 lbs. DEVRINOL DF-XT

\*\*Suppression

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 indicated for DEVRINOL DF-XT, use the lower rate on light soil (coarse textured-sandy) and the higher rate on heavy soil (fine textured-clay).

## TANK MIXTURES – LABELED CROPS

DEVRINOL DF-XT may be tank mixed with other preemergence herbicides labeled for the same crops to provide additional weed control and for control of weeds not listed on the DEVRINOL DF-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.

For fruit and nut crops, make only one application per season.

For other labeled crops, 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 50 gallons of water per acre.

## FRUIT AND NUT CROP USE DIRECTIONS

Apply a maximum of one application per year (except ornamentals)

DEVIRINOL DF-XT is labeled for use on the following crops. Refer to regional map under "PRODUCT INFORMATION".

CROP	RATE DEVIRINOL DF-XT/A	USE DIRECTIONS AND RESTRICTIONS
Almonds (All Regions) Filberts (All Regions) Grapes (All Regions) Kiwifruit (Western Region Only) Pecans (All Regions)	8 lbs./A (4 lbs. a.i.)	Apply to a weed free soil surface. May be applied to newly planted and established crop. <b>Restrictions:</b> Do not apply within 70 days of harvest for grapes, Do not apply within 50 days of harvest for filberts or pecans, Do not apply within 90 days of harvest for kiwifruit. For almonds, grapes, and kiwi, do not apply more than 8 lbs./A (4 lbs. a.i.) per crop cycle. Apply a maximum of once per year.
Persimmons (Western Region Only)	8 lbs./A (4 lbs. a.i.)	Apply to a weed free soil surface. May be applied to established crop only. Apply a maximum of once per year. <b>Restrictions:</b> Do not apply within 100 days of harvest.
Blackberry (including bingleberry, boysenberry; dewberry, lowberry, marionberry, ollalieberry, youngberry) Blueberry Currant Elderberry Gooseberry Huckleberry Loganberry Raspberry (black and red)	8 lbs./A (4 lbs. a.i.)	Apply to a weed free soil surface. May be applied to newly planted and established crop. <b>Restrictions:</b> Do not apply more than 8 lbs./A per crop cycle.
Rhubarb (Pacific Northwest Only)	8 lbs./A (4 lbs. a.i.)	Apply to a weed free soil surface in winter when rhubarb is dormant. <b>Restrictions:</b> Do not apply more than 8 lbs./A per crop cycle.
Strawberries not grown with plastic mulch (All Regions)	8 lbs./A (4 lbs. a.i.)	Apply to a weed free soil surface. May be applied to newly transplanted crop. Delay application until the desired number of daughter plants have become established. <b>Restrictions:</b> Do not exceed a maximum application rate of 8 lbs./A per crop cycle. Do not apply from bloom through harvest.
Strawberries Established Plantings (All Regions)	8 lbs./A (4 lbs. a.i.)	<u>Spring Application</u> - 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 hours of application for best results. <b>Restrictions:</b> Do not exceed a maximum application rate of 8 lbs./A per crop cycle. Do not apply from bloom through harvest. <u>Fall Application</u> - 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 hours of application. <b>Restrictions:</b> Do not apply DEVIRINOL DF-XT to frozen ground. Do not exceed a maximum application rate of 8 lbs./A per crop cycle.
Strawberries grown with plastic mulch on plant beds (All Regions except Southeast) PREPLANT	8 lbs./A (4 lbs. a.i.) (preplant incorporated)	Apply to a weed free soil before the laying of plastic mulch. Soil should be well worked yet moist enough to permit a thorough incorporation to a depth of 2 inches. Incorporate the 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. <b>Restrictions:</b> Do not exceed a maximum application rate of 8 lbs./A per crop cycle.
Strawberries grown with plastic mulch on plant beds (Southeast Regions) PREPLANT	4-8 lbs./A (2-4 lbs. a.i.) (preplant)	Apply to a weed free soil before the laying of plastic mulch. Soil should be well worked yet moist enough to permit a thorough incorporation to a depth of 2 inches. Incorporate the 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. <b>Restrictions:</b> Do not exceed a maximum application rate of 8 lbs./A per crop cycle.

(continued)

### FRUIT AND NUT CROP USE DIRECTIONS *(continued)*

CROP	RATE DEVRINOL DF-XT/A	USE DIRECTIONS AND RESTRICTIONS
Strawberries grown with plastic mulch on plant beds (All Regions) (application between rows of plastic mulch (middles or aisles))	8 lbs./A (4 lbs. a.i.) (application between rows of plastic mulch (middles or aisles))	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 DF-XT 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, tank mix 8 lbs. of DEVRINOL DF-XT with the correct amount of Gramoxone to get burndown and residual control. <b>Restrictions:</b> Do not exceed a maximum application rate of 8 lbs./A per crop cycle. Do not apply from bloom through harvest.

### VEGETABLES AND TOBACCO CROP USE DIRECTIONS

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

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

CROP	RATE DEVRINOL DF-XT/A	USE DIRECTIONS AND RESTRICTIONS
Asparagus (All Regions)	8 lbs./A (4 lbs. a.i.)	Apply to a weed free soil surface. Asparagus: may be applied to established crop only. When used on established crops, apply DEVRINOL DF-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. <b>Restrictions:</b> Do not exceed a maximum application rate of 8 lbs./A per crop cycle.
Broccoli (Maine Only)	2-4 lbs./A (1-2 lbs. a.i.)	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 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). <b>Restrictions:</b> Do not apply more than 4 lbs. DEVRINOL DF-XT per acre per crop season. Do not exceed a maximum application rate of 4 lbs./A per crop cycle.
Cole Crops - Broccoli, Brussels Sprouts, Cauliflower (Arizona and California Only)	1-2 lbs./A (1/2-1 lb. a.i.)	For suppression of Annual Bluegrass, Barnyardgrass, Common Groundsel, Common Purslane and 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 to 2 inches or sprinkler irrigate within 24 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). <b>Restrictions:</b> Do not exceed a maximum application rate of 2 lbs./A per crop cycle.
Cole Crops - Broccoli, Brussels Sprouts, Cabbage, Cauliflower (Northern Region Only)	2 lbs./A (1 lb. a.i.)	Apply to a 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 hours using sufficient water to wet the soil to a depth of 2 to 4 inches. <b>Restrictions:</b> Do not exceed a maximum application rate of 2 lbs./A per crop cycle.
Cole Crops - Broccoli, Brussels Sprouts, Cabbage, Cauliflower (Pacific Northwest Only)	2-4 lbs./A (1-2 lbs. a.i.)	Apply to a 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 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). <b>Restrictions:</b> Do not exceed a maximum application rate of 4 lbs./A per crop cycle.
Cole Crops - Broccoli, Brussels Sprouts, Cabbage, Cauliflower (Southeast Region Only)	4 lbs./A (2 lbs. a.i.)	Apply to a weed free surface. May be applied to direct seeded (except in Florida) and transplanted crop, as a surface spray after planting. Sprinkler irrigate within 24 hours using sufficient water to wet the soil to a depth of 2 to 4 inches. <b>Restrictions:</b> Do not exceed a maximum application rate of 4 lbs./A per crop cycle.
Cole Crops - Broccoli, Brussels Sprouts, Cabbage, Cauliflower (Southwest Region Only)	2-4 lbs./A (1-2 lbs. a.i.)	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. 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). <b>Restrictions:</b> Do not exceed a maximum application rate of 4 lbs./A per crop cycle.
Eggplants (All Regions)	2-4 lbs./A (1-2 lbs. a.i.)	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). <b>Restrictions:</b> Do not exceed a maximum application rate of 4 lbs./A per crop cycle.
Peppers (including pimento, bell, hot and sweet) (All Regions) Tomatoes (All Regions)	2-4 lbs./A (1-2 lbs. a.i.)	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). <b>Restrictions:</b> Do not exceed a maximum application rate of 4 lbs./A per crop cycle.

*(continued)*

**VEGETABLES AND TOBACCO CROP USE DIRECTIONS (continued)**

CROP	RATE DEVRINOL DF-XT/A	USE DIRECTIONS AND RESTRICTIONS
Peppers (including pimento, bell, hot and sweet), Tomatoes and Eggplants grown on plastic mulch on plant beds – preplant	2-4 lbs./A (1-2 lbs. a.i.)	Apply to a weed free soil before the laying of plastic mulch. Soil should be well worked yet moist enough to permit a thorough incorporation to a depth of 2 inches. Incorporate the 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. <b>Restrictions:</b> Do not exceed a maximum application rate of 4 lbs./A per crop cycle.
Peppers (including pimento, bell, hot and sweet), Tomatoes and Eggplants grown with plastic mulch on plant beds – application between rows of plastic mulch (middles or aisles)	4 lbs./A (2 lbs. a.i.)	Apply to a weed free soil surface between the rows of plastic. Mechanically incorporate or irrigate DEVRINOL DF-XT into the soil to a depth of 1 to 2 inches within 24 hours of application. <b>Restrictions:</b> Do not exceed a maximum application rate of 4 lbs./A per crop cycle.
Sweet Potatoes	2-4 lbs./A (1-2 lbs. a.i.)	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). Use 10 to 50 gallons of spray per acre. For best results, the treatment must reach the zone of weed seed germination. If rainfall does not occur within 24 hours 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. <b>At Transplanting: (All Regions)</b> Apply the labeled amount of DEVRINOL DF-XT to the soil surface immediately after transplanting. <b>Plant Beds: (Southeast Region Only)</b> Apply the labeled amount of DEVRINOL DF-XT to the soil surface after sweet potato roots are covered with soil, but prior to soil cracking and emergence of sweet potato plants. <b>Restrictions:</b> Do not exceed a maximum application rate of 4 lbs./A per crop cycle.
Tobacco (All Regions)	Before transplanting, apply 2-4 lbs./A (1-2 lbs. a.i.)	Apply to a weed free soil surface. Use the lower rate on light soil (coarse textured-sandy) and the higher rate on heavy soil (fine textured-clay). In Southeast only: Apply up to 3 weeks before transplanting. No waiting period is necessary. <b>Restrictions:</b> Do not exceed a maximum application rate of 4 lbs./A per crop cycle.
Tobacco (Kentucky, Maryland, Virginia and Southeast Region Only) At transplanting	2-4 lbs./A (1-2 lbs. a.i.)	Apply to a weed free soil surface. Apply the labeled amount of DEVRINOL DF-XT to the soil surface immediately after transplanting. May be applied over the top of transplants. Apply to a weed-free soil surface. Use 10 to 50 gallons of spray per acre. 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. <b>Restrictions:</b> Do not apply more than 4 lbs. DEVRINOL DF-XT in any one season.
Tobacco (Kentucky, Maryland, Virginia And Southeast Region Only) Layby application between rows	2-4 lbs./A (1-2 lbs. a.i.)	Reduce rates proportionately for band layby application. Treatments may follow a preplant incorporated application of DEVRINOL DF-XT. Apply the labeled amount of DEVRINOL DF-XT in a band immediately after the layby cultivation. Apply as a directed spray to the row middles. Apply to a weed-free soil surface. Use 10 to 50 gallons of spray per acre. 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. <b>Restrictions:</b> Do not apply more than 4 lbs. DEVRINOL DF-XT in any one season.

CROP	RATE DEVRINOL DF-XT/A	USE DIRECTIONS AND RESTRICTIONS
Herbs: Basil, Marjoram, Rosemary, Savory (summer and winter)	2-4 lbs./A (1-2 lbs. a.i.)	Apply as a preplant/preemergence application. Apply with ground spray equipment only, in 20 to 100 gallons of water per acre. Apply to a weed free surface. 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 to 4 inches. Use the lower rate on light soil (coarse textured-sandy) and the higher rate on heavy soil (fine textured-clay). A list of weeds controlled is provided on page 4 of this label. DEVRINOL DF-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. Do not apply to frozen ground. <b>Restrictions:</b> Do not apply more than once per season. Do not apply this product through any type of irrigation system. There is no restriction between last application and harvest.
Peppermint, Spearmint	8 lbs./A (4 lbs. a.i.)	Apply to a weed free soil surface. Mint: may be applied to newly planted and established crops. When used on established crops, apply DEVRINOL DF-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. <b>Restrictions:</b> Do not exceed a maximum application rate of 8 lbs./A per crop cycle.

CROP: CRANBERRIES	RATE DEVRINOL DF-XT/A	USE DIRECTIONS AND RESTRICTIONS
<b>Northeast:</b> Connecticut, Delaware, Massachusetts, Maryland, Maine, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, West Virginia		
<u>Established beds</u> (over one year old) For control of nutsedge ( <i>Cyperus dentatus</i> ), rice cutgrass ( <i>Leersia oryzoides</i> ) and purplestem beggarticks ( <i>Bidens connata</i> )	12-18 lbs./A (6-9 lbs. a.i.)  8-12 lbs./A (4-6 lbs. a.i.)	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. <u>In Peat Beds:</u> Apply through ground application equipment or through the overhead sprinkler system. See use directions for application through sprinkler irrigation systems. <b>Restrictions:</b> Do not apply more than 18 lbs. DEVRINOL DF-XT per acre per year. <u>In Beds with Sandy Soils:</u> Apply through ground application equipment or through the sprinkler irrigation system. <b>Restrictions:</b> Do not apply more than 12 lbs. DEVRINOL DF-XT per acre per year.
<u>New plantings</u>	6 lbs./A (3 lbs. a.i.)	Apply to a weed free soil surface after planting using ground spray equipment or through the sprinkler irrigation system. <b>Restrictions:</b> Do not apply more than 6 lbs. DEVRINOL DF-XT per acre per year.
<b>North Central:</b> Michigan, Minnesota, North Dakota, South Dakota, Wisconsin		
<u>Established beds</u> (over one year old) For control of purplestem beggarticks ( <i>Bidens connata</i> ) and rice cutgrass ( <i>Leersia oryzoides</i> )	12-18 lbs./A (6-9 lbs. a.i.)  8-12 lbs./A (4-6 lbs. a.i.)	Apply to a weed free soil surface before spring growth begins or in the fall after harvest. Avoid applying when beds may be reflooded 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 sprinkler systems for frost control. <u>In Peat Beds:</u> Apply through ground application equipment or through the overhead sprinkler system. See use directions for application through sprinkler irrigation systems. <b>Restrictions:</b> Do not apply more than 18 lbs. DEVRINOL DF-XT per acre per year. <u>In Beds with Sandy Soils:</u> Apply through ground application or through the sprinkler irrigation system. <b>Restrictions:</b> Do not apply more than 12 lbs. DEVRINOL DF-XT per acre per year.
<u>New plantings</u>	6 lbs./A (3 lbs. a.i.)	Apply to a weed free soil surface after planting using ground spray equipment or through the sprinkler irrigation system. <b>Restrictions:</b> Do not apply more than 6 lbs. DEVRINOL DF-XT per acre per year.
<b>West:</b> Idaho, Montana, Oregon, Washington		
<u>Established beds</u> (over one year old) For control of clover ( <i>Trifolium fimbriatum</i> ), aster ( <i>Aster douglasii</i> ), silverweed cinquefoil* (silverleaf) ( <i>Potentilla anserina</i> ), red sorrel (sheep sorrel) ( <i>Rumex acetosella</i> ) and birdsfoot trefoil ( <i>Lotus corniculatus</i> ) *Suppression only	18 lbs./A (9 lbs. a.i.)  12-18 lbs./A (6-9 lbs. a.i.) 8-18 lbs./A (4-9 lbs. a.i.)	Apply DEVRINOL DF-XT at the rates indicated below to a weed free soil surface before spring growth begins in mid-February or before the end of March. <u>In Beds with Heavy Muck Soil:</u> Apply through ground application equipment or through the overhead sprinkler system. See use directions for application through sprinkler irrigation systems. <u>In Peat Beds:</u> Apply through ground application equipment or through the overhead sprinkler system. <u>In Beds with Sandy Soils:</u> Apply through ground application equipment or through the sprinkler irrigation system. <b>Restrictions:</b> 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 lbs. DEVRINOL DF-XT per acre per year.
<u>New plantings</u>	6 lbs./A (3 lbs. a.i.)	Apply to a weed free soil surface after planting using ground spray equipment or through the sprinkler irrigation system. <b>Restrictions:</b> Do not apply more than 6 lbs. DEVRINOL DF-XT per acre per year.



### 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. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### 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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