



# DEVIRINOL<sup>®</sup> 50-WP

**SELECTIVE HERBICIDE — WETTABLE POWDER**  
**FOR USE ON CERTAIN CITRUS, NUTS, POME FRUITS, SMALL FRUITS AND STONE FRUITS**

**ACTIVE INGREDIENT:**

2-(alpha-naphthoxy)- N,N-diethylpropionamide ..... 50%

**INERT INGREDIENTS:** ..... 50%

100%

U.S. Patent No. 3,480,671; 3,718,455

\* Trademark of Stauffer Chemical Company

## CAUTION

**Keep Out of Reach  
of Children**

**MAY BE HARMFUL IF SWALLOWED.**

Do not breathe dust or spray mist. Avoid contact with skin, eyes and clothing. Avoid contamination of food and feed. Wash thoroughly with soap and water before eating or smoking.

### USE PRECAUTIONS

- Read all label directions before using.
- Use only for recommended purposes and at recommended rates. Do not overdose.
- DEVIRINOL is recommended for use on mineral soils only. Not recommended for use on soils with over 10% organic matter.
- Do not contaminate irrigation water or water used for domestic purposes.
- Do not store near seeds or fertilizer. Keep container closed when not in use.
- Do not apply more than once per season.
- Spraying on ground heavily covered with leaves or trash may adversely affect weed control.
- Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

### WEEDS CONTROLLED

NOTE: DEVIRINOL does not control established weeds.

**ANNUAL GRASSES**  
 Annual Bluegrass (*Poa annua*)  
 Barnyardgrass—Watergrass (*Echinochloa* spp.)  
 Bristly Foxtail (*Setaria, verticillata*)  
 Guineagrass (*P. maximum*) (Texas only)  
 Johnsongrass seedlings (*S. halepense*) (Texas only)  
 Sandbur (*Cenchrus* spp.) (Texas only)

**ANNUAL BROADLEAF WEEDS**  
 Chickweed (*Stellaria media*)  
 Common Fiddleneck (*Amsinckia intermedia*)  
 Common Knotweed (*Polygonum aviculare*)  
 Little Mallow\* (*Malva parviflora*)  
 Common Purslane (*Portulaca oleracea*)  
 Common Sowthistle (*Sonchus oleraceus*)  
 Filaree (*Erodium* spp.)

\*From Seed.

**ANNUAL GRASSES**  
 Texas Panicum (*P. texanum*) (Texas only)  
 Large (Hairy) Crabgrass (*Digitaria sanguinalis*)  
 Rigput Brome (*Bromus rigidus*)  
 Southwestern Cupgrass (*Eriochloa gracilis*)  
 Wild Barley (*Hordeum leporinum*)  
 Wild Oats (*Avena fatua*)

**ANNUAL BROADLEAF WEEDS**  
 Groundsel (*Senecio* spp.)  
 Horse Purslane (*T. portulacastrum*) (Texas only)  
 Lambsquarters (*Chenopodium album*)  
 Pineappleweed (*Matricaria matricarioides*)  
 Prickly lettuce (*Lactuca scariola*)  
 Redroot Pigweed (*Amaranthus retroflexus*)

ACCEPTED  
2/19/1976

HERBICIDE  
EPA REG. NO. 476-2108-AA

**STORE IN COOL, DRY PLACE**  
**KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE**

EPA Reg. No. 476-2108-AA

EPA Est. 476-CA-1

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**NOTICE: Stauffer Chemical Company makes no warranty, express or implied, including the warranties of merchantability and/or fitness for any particular purpose, concerning this material, except those which are contained on Stauffer's label.**

**50 LBS. NET**

Made In U.S.A. By

# STAUFFER CHEMICAL COMPANY

WESTPORT, CT 06880

### DIRECTIONS FOR USE

DEVIRINOL is a selective, surface-applied herbicide for use in certain fruit and nut crops. It is also recommended for weed control in certain vegetables, applied and incorporated prior to planting. DEVIRINOL controls weeds before they emerge. It does not control established weeds. All weed growth and crop stubble in fields intended for vegetables or young tree plantings 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 free from clogging and are delivering a uniform spray pattern. Apply the recommended rate of DEVIRINOL 50-WP in 20 to 100 gallons of water per acre.

### RECOMMENDATIONS

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

- Recommended for use in California on Almonds, Apples, Apricots, Cherries, Grapes, Nectarines, Oranges, Peaches, Pears, Pistachios, Plums, Prunes, and Walnuts (Established or newly planted trees or vines); Figs, Grapefruit, Lemons, Pecans, and Tangerines (Established trees).
- Recommended for use in Arizona on Grapes and Oranges (Established or newly planted trees or vines); Grapefruit, Lemons, Pecans, and Tangerines (Established trees).

For control of all weeds listed, apply 8 pounds DEVIRINOL 50-WP per Broadcast acre to the soil surface. Apply in the fall through early spring, prior to weed emergence, preferably in November or December. For control of Bristly Foxtail, Wild Oats and Pineappleweed, apply in late fall through early spring. For best results, the treatment must reach the zone of weed seed germination. Treatments made other than in November through February must be irrigated in the same day as applied (sprinkler or flood) with sufficient water to wet the soil to a depth of at least 2 to 4 inches. Irrigation or shallow incorporation is recommended for treatments made from November through February if no rainfall occurs within two weeks of application.

Application may be made immediately after planting young trees (except Figs, Grapefruit, Lemons, Pecans, and Tangerines) or vines.

Use as 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.

#### TOMATOES AND PEPPERS (Direct Seeded and Transplant) — California Only

For control of Barnyardgrass, Pigweed, Crabgrass and Lambsquarters, apply 2 to 4 pounds DEVIRINOL 50-WP per broadcast acre. Use the lower rate on light soil (coarse textured—sandy) and the higher rate on heavy soil (fine textured — Clay).

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.

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

Do not seed to alfalfa, small grains, sorghum, corn, lettuce or sugar beets for 12 months after DEVIRINOL application.

#### TEXAS

Recommended for use in Texas on established Grapefruit and Oranges.

For control of Common Purslane, Barnyardgrass and Redroot Pigweed, apply 8-12 pounds DEVIRINOL 50-WP per broadcast acre to the soil surface. For control of Guineagrass (*P. maximum*), Horse Purslane (*T. portulacastrum*), Johnsongrass seedlings (*S. halepense*), Sandbur (*Cenchrus* spp.) and Texas Panicum (*P. texanum*), apply 12 pounds DEVIRINOL 50-WP per broadcast acre to the soil surface. Apply in the winter thru early spring, prior to weed emergence. Use as a directed spray and avoid contact with fruit or foliage. Treatments must be followed by sprinkler or flood irrigation the same day as applied, using sufficient water to wet the soil to a depth of at least 2-4 inches.

#### PACIFIC NORTHWEST

Recommended in the Pacific Northwest on established Grapes.

Apply 8 pounds DEVIRINOL 50-WP per broadcast acre for control of all weeds listed, to the soil surface. Apply in the fall thru early spring, prior to weed emergence. For control of Bristly Foxtail, Wild Oats and Pineappleweed, apply in late fall through early spring. Use as a directed spray and avoid contact with fruit or foliage. For best results, the treatment must reach the zone of weed seed germination. Treatments made other than in November thru February must be irrigated in the same day as applied (sprinkler or flood) with sufficient water to wet the soil to a depth of at least 2-4 inches. Irrigation or shallow incorporation is recommended for treatments made from November thru February if no rainfall occurs within two weeks of application.

WASH SPRAY EQUIPMENT AFTER USE. DO NOT RE-USE EMPTY CONTAINER. DESTROY IT BY BURYING WITH WASTE OR BURNING. STAY AWAY FROM SMOKE OR FUMES.

## STAUFFER CHEMICAL COMPANY

# DEVRINOL 50-WP/PARAQUAT CL COMBINATIONS

### GENERAL INFORMATION

DEVRINOL 50-WP and the DEVRINOL 50-WP/SIMAZINE 80-WP tank mix will not control emerged weeds. PARAQUAT CL may be used to control existing weeds when applied prior to, or in combination with DEVRINOL or DEVRINOL/SIMAZINE. Use of PARAQUAT with DEVRINOL is recommended in California on certain fruit and nut crops on the DEVRINOL 50-WP label (see recommendations) and in Arizona on citrus and grapes. Use with the DEVRINOL/SIMAZINE tank mix is recommended on California grown almonds, citrus (oranges, grapefruit & lemons), grapes and peaches.

### 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.

### WEEDS CONTROLLED

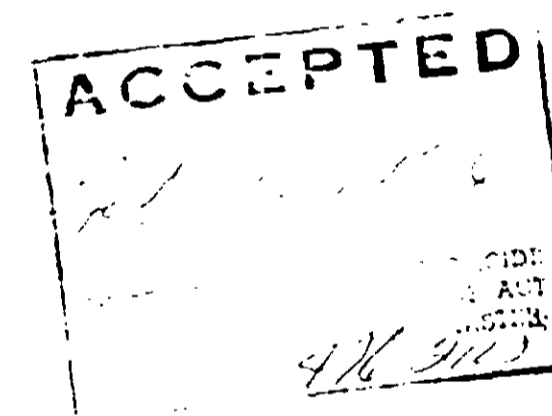
#### ANNUAL GRASSES:

Annual Bluegrass	( <i>Poa annua</i> )
Barnyardgrass (Watergrass)	( <i>Echinochloa spp.</i> )
Bristly Foxtail	( <i>Setaria verticilla</i> )
Large (Hairy) Crabgrass	( <i>Digitaria sanguinalis</i> )
Ripgut Brome	( <i>Bromus rigidus</i> )
Southwestern Cupgrass	( <i>Eriochloa gracilis</i> )
Wild Barley	( <i>Hordeum leporinum</i> )
Wild Oats	( <i>Avena fatua</i> )

#### ANNUAL BROADLEAF WEEDS:

California Burclover	( <i>Medicago polymorpha</i> )
Chickweed	( <i>Stellaria media</i> )
Common Fiddleneck	( <i>Amsinckia intermedia</i> )
Common Knotweed	( <i>Polygonum aviculare</i> )
Little Mallow*	( <i>Malva parviflora</i> )
Common Purslane	( <i>Portulaca oleracea</i> )
Common Sowthistle	( <i>Sonchus oleraceus</i> )
Filaree	( <i>Erodium spp.</i> )
Groundsel	( <i>Senecio spp.</i> )
Henbit	( <i>Lamium amplexicaule</i> )
Lambsquarters	( <i>Chenopodium album</i> )
London Rocket	( <i>Sisymbrium irio</i> )
Marestail (Horseweed)	( <i>Conyza canadensis</i> )
Miners Lettuce	( <i>Montia perfoliata</i> )
Panicum Willoweed	( <i>Epilobium paniculatum</i> )
Pineappleweed	( <i>Matricaria matricarioides</i> )
Prickly Lettuce	( <i>Lactuca scariola</i> )
Redmaids Rockpurslane	( <i>Calandrinia caulescens</i> )
Redroot Pigweed	( <i>Amaranthus retroflexus</i> )
Shepherdspurse	( <i>Capsella bursa-pastoris</i> )

\*From Seed



## DIRECTIONS FOR USE

### TANK MIXING DIRECTIONS:

Be sure the sprayer tank, boom and nozzle have been thoroughly flushed with clean water if another pesticide has been used previously.

Sufficient jet or mechanical agitation should be provided during the filling operation and during application.

1. **DEVIRINOL 50-WP/PARAQUAT CL:** Add a non-ionic spreader to the tank water at the rate recommended on the spreader label. Mix the recommended amount of DEVIRINOL 50-WP in a suitable container with sufficient water to make a smooth slurry. Pour the slurry into the nearly-filled spray tank, and then mix in the recommended amount of PARAQUAT. Fill the tank with water to the desired level. Do not allow the mixture to stand in the spray tank without agitation.
2. **DEVIRINOL 50-WP/SIMAZINE 80-WP/PARAQUAT CL:** Add a non-ionic spreader to the tank water at the rate recommended on the spreader label. Blend the recommended amount of DEVIRINOL in a suitable container with sufficient water to make a smooth slurry. To this premix slurry, add and mix the recommended amount of SIMAZINE 80-WP. Pour the slurry mixture into the nearly-filled spray tank while agitating, then add the recommended amount of PARAQUAT. Fill the tank with water to the desired level. Do not allow the mixture to stand in the spray tank without agitation.

Allow the pump to run several minutes before application to insure proper suspension and mixing. The tank-mix combination should not be left in the spray tank for prolonged periods; batches should be mixed and applied the same day.

### APPLICATION DIRECTIONS:

For a tank mix application, apply the recommended dosages (see recommendations) in 50 to 100 gallons of water per acre using a properly calibrated, low-pressure (20-40 psi), boom-type sprayer having good agitation. Use as a directed spray and avoid contact with fruit, foliage, or green stems. Use a shield for young trees or vines. Check frequently during application to be sure the nozzles are free from clogging and are delivering a uniform spray pattern.

### RECOMMENDATIONS

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

#### 1. **DEVIRINOL 50-WP/PARAQUAT CL:** **CALIFORNIA/ARIZONA**

- Recommended for use in California on almonds, apricots, cherries, grapes, nectarines, oranges, peaches, plums and prunes (established or newly planted trees or vines); grapefruit, lemons and tangerines (established trees).
- Recommended for use in Arizona on grapes and oranges (established or newly planted trees or vines); grapefruit, lemons and tangerines (established trees).

For control of all weeds listed, apply 8 pounds DEVIRINOL 50-WP and 1 to 2 quarts PARAQUAT CL per broadcast acre. Apply the tank mix in the fall through early spring when weeds and grasses are succulent and new growth is from 1 to 6 inches high, preferably in November and December. For control of bristly foxtail, wild oats and pineapple weed, apply in late fall through early spring. For best results, the DEVIRINOL treatment must reach the zone of weed seed germination. Treatments made other than in November through February must be irrigated-in the same day as applied (sprinkler or flood) with sufficient water to wet the soil to a depth of at least 2 to 4 inches. Irrigation or shallow incorporation is recommended for treatments made from November through February if no rainfall occurs within two weeks of application.

Application may be made immediately after planting young trees (except grapefruit, lemons and tangerines) or vines.

Do not apply when fruit or nuts are on the ground during the harvest period. Do not graze treated areas.

#### 2. **DEVIRINOL 50-WP/SIMAZINE 80-WP/PARAQUAT CL:**

Apply 8 pounds DEVIRINOL 50-WP, 0.6 to 1.25 pounds SIMAZINE 80-WP, and 1 to 2 quarts PARAQUAT CL 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 the tank mix in the late fall through early spring, when weeds and grasses are succulent and new growth is from 1 to 6 inches high, preferably in November or December.

Do not apply when fruits or nuts are on the ground during the harvest period. Do not graze treated areas. To avoid possible crop injury, do not treat trees or vines established less than three years or apply to gravelly, loamy sand or sand soils or on soils with less than 2% organic matter. Do not use this tank mix combination on citrus in the Imperial, Coachella or Palo Verde Valleys. Do not apply to citrus trees under stress from frost damage for one year following the freeze to avoid possible injury. Also, do not apply to mission variety almonds, do not replant almonds into treated soil, or make applications to almonds propagated on plum rootstocks. In almond and peach orchards, flood or furrow irrigation water should not be applied to any treated areas or allowed to stand on treated soils.

WASH SPRAY EQUIPMENT AFTER USE.

DO NOT RE-USE EMPTY CONTAINER. DESTROY IT BY BURYING  
WITH WASTE OR BURNING. STAY AWAY FROM SMOKE OR FLAMES.

EPA Reg. No. 476-2108-AA

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**NOTICE: Stauffer Chemical Company makes no warranty, express or implied, including the warranties of merchantability and/or fitness for any particular purpose, concerning this material, except those which are contained on Stauffer's label.**

# STAUFFER CHEMICAL COMPANY

## DEVIRINOL 50-WP/SIMAZINE 80-WP COMBINATION

### GENERAL INFORMATION

DEVIRINOL 50-WP may be used in combination with SIMAZINE 80-WP for weed control in Almonds, Citrus (except Tangerines), Grapes and Peaches. This combination is recommended in California only.

#### IMPORTANT:

Observe all cautions and limitations on labeling of all products used in combination. The DEVIRINOL 50-WP/SIMAZINE 80-WP tank mix controls weeds before they emerge. It does not control established weeds.

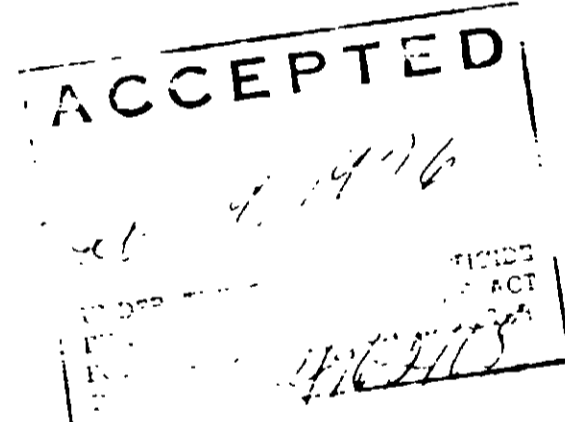
Make only one application per season

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

In each case where a range of rates is given for SIMAZINE 80-WP the lower rate should be used on light soils (coarse textured — sandy) and soils low in organic matter. The higher rate should be used on heavy soils (fine textured — clay) and soils high in organic matter.

### WEEDS CONTROLLED

In addition to the weeds on the DEVIRINOL 50-WP label, the combination, when applied in late fall through early spring, provides control of the following:



#### Annual grasses:

Annual Bluegrass	( <i>Poa annua</i> )
Barnyardgrass (Watergrass)	( <i>Echinochloa spp.</i> )
Bristly Foxtail	( <i>Setaria verticilla</i> )
Large (Hairy) Crabgrass	( <i>Digitaria sanguinalis</i> )
Ripgut Brome	( <i>Bromus rigidus</i> )
Southwestern Cupgrass	( <i>Eriochloa gracilis</i> )
Wild Barley	( <i>Hordeum leporinum</i> )
Wild Oats	( <i>Avena fatua</i> )

#### Annual broadleaf weeds:

California Burclover	( <i>Medicago polymorpha</i> )
Chickweed	( <i>Stellaria media</i> )
Common Fiddleneck	( <i>Amsinckia intermedia</i> )
Common Knotweed	( <i>Polygonum aviculare</i> )
Little Mallow*	( <i>Malva parviflora</i> )
Common Purslane	( <i>Portulaca oleracea</i> )
Common Sowthistle	( <i>Sonchus oleraceus</i> )
Filaree	( <i>Erodium spp.</i> )
Groundsel	( <i>Senecio spp.</i> )
Henbit	( <i>Lamium amplexicaule</i> )
Lambsquarters	( <i>Chenopodium album</i> )
London Rocket	( <i>Sisymbrium irio</i> )
Marestail (Horseweed)	( <i>Conyza canadensis</i> )
Miners Lettuce	( <i>Montia perfoliata</i> )
Panicle Willoweed	( <i>Epilobium paniculatum</i> )
Pineappleweed	( <i>Matricaria matricarioides</i> )
Prickly Lettuce	( <i>Lactuca scariola</i> )
Redmaids Rockpurslane	( <i>Calandrinia caulescens</i> )
Redroot Pigweed	( <i>Amaranthus retroflexus</i> )
Shepherdspurse	( <i>Capsella bursa-pastoris</i> )

\*From Seed

## DIRECTIONS FOR USE

### TANK MIXING DIRECTIONS:

Be sure the sprayer tank, boom and nozzle have been thoroughly flushed with clean water if another pesticide has been used previously.

Sufficient jet or mechanical agitation should be provided during the filling operation and during application. Fill the spray tank at least one-fourth full of clean water and while pump and agitator are running, add the recommended amounts of the herbicides to the tank. Fill the tank with water to the desired level. Do not allow the mixture to stand in the spray tank without agitation.

Allow the pump to run several minutes before application to insure proper suspension and mixing. The tank-mix combination should not be left in the spray tank for prolonged periods; batches should be mixed and applied the same day.

### APPLICATION DIRECTIONS:

For a tank-mix application, apply the recommended dosage (see recommendations) in 20 to 100 gallons of water per acre using a properly calibrated, low-pressure (20-40 psi), boom-type sprayer having good agitation. Check frequently during application to be sure the nozzles are free from clogging and are delivering a uniform spray pattern. Read directions on the SIMAZINE label concerning nozzle and screen sizes.

## RECOMMENDATIONS

Apply 8 pounds DEVRINOL 50-WP 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 late fall through early spring prior to weed emergence, preferably in November or December. For best results, the treatment must reach the zone of weed seed germination. Treatments made other than in November through February must be irrigated in the same day as applied (sprinkler or flood) with sufficient water to wet the soil to a depth of at least 2 to 4 inches. Irrigation or shallow incorporation is recommended for treatments made from November through February if no rainfall occurs within two weeks of application.

Use as 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.

To avoid possible crop injury, do not treat trees or vines established less than three years or apply to gravelly, loamy sand or sand soils or on soils with less than 2% organic matter. Do not use this tank mix combination on Citrus in the Imperial, Coachella or Palo Verde Valleys. Do not apply to Citrus trees under stress from frost damage for one year following the freeze to avoid possible injury. Also, do not apply to Mission Variety Almonds, do not replant Almonds into treated soils, or make applications to Almonds propagated on Plum rootstocks. In Almond and Peach orchards, flood or furrow irrigation water should not be applied to any treated areas or allowed to stand on treated soils.