



ACCEPTED
DEC 17 1992

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 10182-219



Complete Directions For Use, Use Precautions and Recommendations

Devrinol®
2-E
Selective Herbicide
emulsifiable liquid for use on
tomatoes, peppers, strawberries
and tobacco



Agricultural Products
ICI Americas Inc.
Wilmington, Delaware 19887

Made in U.S.A.

178113

NOTICE TO BUYER AND USER

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product.

CONDITIONS OF SALE AND LIMITED WARRANTY:
The Directions for Use of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product on crops. Inadequacies or other undesirable consequences may result because of such factors as timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended or other influencing factors in the use of the product, all of which are beyond the control of the Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label, subject to the inherent risks referred to above, when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller and Buyer and User assume the risk of any such use. **SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY.**

When Buyer or User claims losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability or other legal theories), Buyer or User must promptly notify in writing Seller of any claims to be eligible to receive either of the remedies set forth below. The **EXCLUSIVE REMEDY OF BUYER OR USER AND THE LIMIT OF LIABILITY OF SELLER** will be, at the election of Seller, refund of the purchase price paid for product bought, or replacement of amount of product used. **SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.**

This product is sold only for use stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified Country U.S.A. Patent No. 3,480,871, 3,718,455. **DEVIRINOL®, DYFONATE®, and TILLAM®** are trademarks of ICI Group Companies.

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Contains 2 pounds active ingredient per gallon

**SELECTIVE HERBICIDE—
EMULSIFIABLE LIQUID**

For use on Tomatoes, Peppers,
Strawberries and Tobacco

ACTIVE INGREDIENT:

N,N-diethyl-2-(1-naphthalenyl)-
propionamide 21.8%
INERT INGREDIENTS: 78.2%
100.0%

EPA Reg. No. 10182-219

Keep Out of Reach of Children
DANGER

STATEMENT OF PRACTICAL TREATMENT

FIRST AID

CALL A POISON CENTER OR A PHYSICIAN IMMEDIATELY

If a known exposure occurs or is suspected, immediately start the procedures given below. Simultaneously contact a Poison Center, a physician or the nearest hospital. **NOTE:** Be sure to advise the person contacted that the

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product contains a hydrocarbon solvent. Describe the type of exposure, the victim's symptoms, and follow the advice given.

IF SWALLOWED: Immediately give several glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.

IN CASE OF CONTACT: Immediately flush eyes and skin with large amounts of running water for at least 15 minutes while removing contaminated clothing and shoes. For eyes, hold eyelids apart during the flushing to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately. Wash clothing before re-use.

IF INHALED: Remove to fresh air. If victim is breathing, oxygen may be given from a demand-type or continuous-flow respirator, preferably with a physician's advice. If not breathing, clear victim's airway and start mouth-to-mouth artificial respiration. Get medical attention immediately.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL ICI AMERICAS MEDICAL EMERGENCY INFORMATION CENTER (800) 327-8512 OR CHEMTREC (800) 424-9300.

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

CORROSIVE • CAUSES EYE DAMAGE AND SKIN IRRITATION

Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed or absorbed through the skin. Avoid contamination of food or feed. Do not use, store, spill, or pour near heat or open flame.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwaters. Apply this product as specified on this label. Do not contaminate water used for domestic purposes. Avoid contamination of food and feed.

GENERAL PRECAUTIONS

Read all label directions before using. Use only for recommended purposes at recommended rates. Do not overdose. Do not contaminate irrigation water or water used

for domestic purposes. Do not store near seeds or fertilizer. Do not apply more than once per season. DEVRINOL is recommended for use on mineral soils only. Not recommended for use on soils with over 10% organic matter. Spraying on ground heavily covered with leaves or trash may adversely affect weed control.

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 through any type of irrigation system.

DEVRINOL® 2-E is a selective, surface-applied herbicide for use in strawberries. It is also recommended for weed control in certain vegetables and tobacco, applied and incorporated prior to planting.

DEVRINOL 2-E controls weeds before they emerge. It does not control established weeds. All weed growth and crop stubble in fields intended for vegetables or tobacco 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 DEVRINOL 2-E in 20 to 100 gallons of water per acre.

WEEDS CONTROLLED

STRAWBERRIES

NOTE: DEVRINOL does not control established weeds.

ANNUAL GRASSES:

Annual Bluegrass (*Poa Annua*)
Barnyardgrass—Watergrass (*Echinochloa* spp.)
Bristle tail (*Setaria verticillata*)
Large (Hairy) Crabgrass (*Digitaria sanguinalis*)
Ripgut Brome (*Bromus rigidus*)
Southwestern Cupgrass (*Eriochloa gracilis*)
Wild Barley (*Hordeum laetivum*)
Wild Oats (*Avena fatua*)

ANNUAL BROADLEAF WEEDS:

Chickweed (*Stellaria media*)
Common Fiddleneck (*Ammannia intermedia*)
Common Knotweed (*Polygonum aviculare*)
Common Purslane (*Portulaca oleracea*)
Common Sowthistle (*Sonchus oleraceus*)
Filaree (*Erodium* spp.)
Groundsel (*Senecio* spp.)
Little Mallow* (*Malva parviflora*)
Lambquarters (*Chenopodium album*)
Pineappleweed (*Mitraria matricarioides*)
Prickly Lettuce (*Lactuca scariola*)
Redroot Pigweed (*Amaranthus retroflexus*)

*From seed.

RECOMMENDATIONS

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

STRAWBERRIES (Post Transplant and Established): For control of all weeds listed, apply 2 gallons DEVRINOL 2-E per broadcast acre to the soil surface. Apply in the fall through early spring, prior to weed emergence. Do not apply DEVRINOL 2-E to frozen ground. Do not apply DEVRINOL from bloom through harvest. 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 within 24 hours (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 one week of application.

WEEDS CONTROLLED

VEGETABLES & TOBACCO

NOTE: DEVRINOL 2-E does not control established weeds.

ANNUAL GRASSES:

Barnyardgrass (*Echinochloa* spp.)
Crabgrass (*Digitaria* spp.)
Fall Panicum (*Panicum dichotomiflorum*)
Goosegrass (*Elymus indica*)
Seedling Johnsongrass (*Sorghum halepense*)

ANNUAL BROADLEAF WEEDS:

Carpetweed (*Mollugo verticillata*)
Common Purslane (*Portulaca oleracea*)
Lambquarters (*Chenopodium album*)
Redroot Pigweed (*Amaranthus retroflexus*)

DIRECTIONS FOR USE

On flat-landed 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.

To avoid injury do not seed to alfalfa, small grains, sorghum, corn, lettuce or sugarbeets for 12 months after DEVRINOL 2-E application.

RECOMMENDATIONS

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

TOMATOES

(Direct Seeded and Transplanted): Apply ½ to 1 gallon DEVRINOL 2-E per broadcast acre. Use the lower rate on light soil (coarse textured—sandy) and the higher rate on heavy soil (fine textured—clay).

PEPPERS

(Direct Seeded and Transplanted): Apply ½ to 1 gallon DEVRINOL 2-E per broadcast acre. Use the lower rate on light soil (coarse textured—sandy) and the higher rate on heavy soil (fine textured—clay).

TOBACCO (Transplanted):

Before transplanting, apply ½ to 1 gallon DEVRINOL 2-E per broadcast acre. Use the lower rate on light soils (coarse textured—sandy) and the higher rate on heavy soil (fine textured—clay).

DEVINOL 2-E/TILLAM 6-E TANK MIX COMBINATION

A tankmix combination of DEVINOL 2-E and TILLAM 6-E herbicides can be applied and mixed (incorporated) into the soil before planting for weed control in tomatoes and tobacco.

IMPORTANT:

- Observe all cautions and limitations on labeling of all products used in combination.
- Make only one application per season.
- In each case where a range of rates is given, the lower rates should be used on light (coarse) textured soils and soils low in organic matter. The higher rates should be used on heavy (fine) textured soils.
- After harvest or prior to planting of succeeding crops, a deep moldboard or disc plowing operation must be carried out.
- To avoid injury do not seed to alfalfa, small grains, sorghum, corn, lettuce or sugarbeets for 12 months after application of DEVINOL 2-E/TILLAM 6-E tankmix.

WEEDS CONTROLLED

The tankmix is recommended for control of the following weeds:

ANNUAL GRASSES:

Barnyardgrass—Watergrass
(*Echinochloa* spp.)
Bermudagrass (*Cynodon dactylon*)
Crabgrass (*Digitaria* spp.)

Foxtail—yellow, giant, green (*Setaria* spp.)
Goosegrass (*Elymus indica*)
Millet (*Setaria* spp.)
Signalgrass (*Brechleria pifera*)
Wild Oats (*Avena fatua*)

ANNUAL BROADLEAF WEEDS:

Black-eyed Susan; Sweet Suzy
(*Rudbeckia serotina*)
Common Purslane (*Portulaca oleracea*)
Deadnettle; Henbit (*Lamium amplexicaule*)
Florida Pusley (*Richardia scabra*)
Hairy Nightshade (*Solanum villosum*)
Lambquarters (*Chenopodium album*)
Nettleleaf Goosefoot (*Chenopodium murale*)
Prostrate Pigweed (*Amaranthus graecizans*)
Redroot Pigweed (*Amaranthus retroflexus*)
Shepherdspurse (*Capsella bursa-pastoris*)
Yellow Nutsedge (Yellow Nutgrass)
(*Cyperus esculentus*)
Purple Nutsedge (Purple Nutgrass)
(*Cyperus rotundus*)

Existing stands of nutgrass must be turned under and chopped up thoroughly before treatment.

DIRECTIONS FOR USE

The recommended tankmix controls weeds by interfering with normal seed germination and seedling development. It does not control established weeds. All weed growth and crop stubble should be thoroughly worked into the soil before treatment.

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 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 should not be left in the spray tank for prolonged periods; batches should be mixed and applied the same day.

APPLICATION DIRECTIONS

The soil should be well-worked and dry enough to permit good soil mixing (incorporation). Pour the recommended amounts of DEVINOL 2-E and TILLAM 6-E into a spray tank during the filling operations. Apply in 25 to 50 gallons of water per acre.

For soil incorporated applications, use a properly calibrated, low-pressure, boom-type sprayer having good agitation.

In irrigated areas, do not apply before pre-irrigation. For all band applications, reduce

dosage proportionately depending upon row spacing and band to be treated. Do not use on rocky ground because thorough incorporation is not possible.

INCORPORATION DIRECTIONS

The herbicides must be mixed (incorporated) into the soil IMMEDIATELY after application to prevent loss by evaporation. Whenever possible, application and incorporation should be done in the same operation.

Incorporation Before Planting: Use power-driven cultivation equipment set to cut to a depth of two to three inches in coarse soils and three to four inches in heavy soils OR a tandem disc set to cut to a depth of six inches, followed by a spike-toothed harrow or some other leveling device which extends beyond ends of the disc. For thorough mixing, disc in two different directions (cross disc).

Incorporation At Planting: Use power-driven cultivation equipment set to cut to a depth of two to three inches OR, on coarse soils only, ground-driven tillers (rolling cultivators, rotary hoe, row wheels, etc.) set to cut to a depth of 1½ inches and operated at 6 to 8 mph. When using ground-driven tillers, pre-cultivate if soil is crusted.

PLANTING

Crops should be planted or seeded immediately after application and incorporation. Do not use a drag behind the planter as it may concentrate the herbicides over the seed row and cause crop injury.

CULTURAL PRACTICES FOLLOWING APPLICATION

Shallow cultivation may be necessary to control those susceptible weeds that escape control as well as those weeds not susceptible to either herbicide. Do not cultivate deeper than the depth of herbicide incorporation.

When cultivating fields where the tank mix has been banded in the row, use shields to prevent the movement of untreated soil into the treated row.

RECOMMENDATIONS

TOMATOES (Direct Seeded [California Only] and Transplant):

Apply ½ to 1 gallon DEVINOL 2-E plus 2½ to 4 quarts TILLAM 6-E per broadcast acre. Use the lower rates on light soils (coarse textured—sandy) and the higher rate on heavy soils (fine textured—clay). Do not use hot-caps on transplanted tomatoes.

TOBACCO (Transplanted):

Before transplanting, apply ½ gallon DEVINOL 2-E plus 2½ quarts TILLAM 6-E per broadcast acre.

DEVINOL 2-E/TILLAM 6-E/DYFONATE 4-EC TANKMIX COMBINATION

A tankmix combination of DEVINOL 2-E, TILLAM 6-E and DYFONATE 4-EC insecticide can be applied and mixed into the soil before planting tomatoes or tobacco, for control of weeds and soil insects. Refer to DEVINOL/TILLAM Tankmix Combination for list of weeds controlled. Refer to the DYFONATE 4-EC label for list of insects controlled.

NOTE: DYFONATE 4-EC is a Restricted Use Pesticide. Observe all cautions and limitations on labeling of all products used in combinations. Make only one application per season. Do not contaminate water by cleaning equipment or disposal of wastes.

DIRECTIONS FOR USE

The recommended tankmix controls weeds by interfering with normal seed germination and seedling development. It does not control established weeds. All weed growth and crop stubble should be thoroughly worked into the soil before treatment.

For GENERAL USE PRECAUTIONS and DIRECTIONS FOR USE refer to DEVINOL 2-E/TILLAM 6-E Tankmix Recommendations for methods of tank mixing, application and incorporation.

RECOMMENDATIONS

TOMATOES (Direct Seeded (California Only) and Transplanted): Apply $\frac{1}{2}$ to 1 gallon DEVRINOL 2-E plus 2 $\frac{1}{2}$ to 4 qts. TILLAM 6-E plus 2 qts. DYFONATE 4-EC for control of symphylans or 4 qts. for control of symphylans and wireworms in 25 to 50 gallons of water per broadcast acre. Use the lower DEVRINOL 2-E and TILLAM 6-E rates on light soils (coarse textured—sandy) and the higher rates on heavy soils (fine textured—clay). Do not use hotcaps on transplanted tomatoes.

TOBACCO (Transplanted): Before transplanting apply $\frac{1}{2}$ gallon DEVRINOL 2-E plus 2 $\frac{1}{2}$ qts. TILLAM 6-E plus 2 qts. DYFONATE 4-EC for control of wireworms in 25 to 50 gallons of water per broadcast acre.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse container.

STORAGE: Store in a cool dry place. Do not store below 20°F. Keep container closed when not in use.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.