

NET WT. 1 LB. 14 OZS.



VIRCHEM

Seventy-five INSECTICIDE

KILLS: FLIES, MOSQUITOES, WASPS,
GNATS, SMALL FLYING MOTHS, ANTS,
ROACHES, SILVERFISH, CRICKETS, FLEAS

ACTIVE INGREDIENTS

d-trans Allethrin	0.25%
(allyl homolog of Cinerin II)	
Piperonyl butoxide*, technical	0.50%
N-Octyl bicycloheptene dicarboximide	0.50%
Petroleum distillate	13.75%
INERT INGREDIENTS	85.00%

*Equivalent to 0.4% (butylcarbityl) (6-propylpiperonyl) ether and 0.1% of other related compounds

KEEP OUT OF REACH OF CHILDREN CAUTION

See Side Panel for Additional Cautions

Technical Products Corp.
Parsippany, New Jersey 07704

EPA Reg. No. 54281-40 EPA Est. 11117-TN-1

DIRECTIONS FOR USE

This violation of federal law to use this product in a manner inconsistent with its labeling. Use in homes, motels, hotels, food plants, canneries, bakeries, restaurants, cafeterias, diners, grocery stores, schools, hospitals, institutions, warehouses, kennels, milk handling areas of milk, cheese, and ice cream plants.

FLIES, MOSQUITOES, GNATS, WASPS, AND SMALL FLYING MOTHS: Ascertain the cubic feet of space to be treated. Close doors and windows. Pointing nozzle upward, direct the aerosol mist to all parts of the room, especially around window frames and other light sources which attract these insects. Keep nozzle in continuous motion at least 36 inches from fabrics. Apply for two seconds per 1000 cubic feet of space. Keep area closed for fifteen minutes after each treatment. Do not remain in treated area. Ventilate the area after treatment is completed. Sweep up and destroy fallen insects. Repeat treatment as necessary.

OUT OF DOORS: For temporary protection from mosquitoes and flies, spray along ground and weeds and brambles around the area. Do not spray ornamental shrubbery. Frequent repeated applications may be necessary.

SILVERFISH, ANTS, ROACHES, AND CRICKETS: Ascertain square feet of space to be treated. Open all doors, cabinets, closets, etc. Direct the mist toward insects into cracks, crevices, and trails on door rails and window frames. For initial cleanup, apply for 10 or 15 seconds per 100 square feet of floor space. Follow up with periodic applications as a space aerosol at 3 to 5 seconds per 1000 cu. ft. of space. Close room for one hour. Repeat treatment as necessary. Do not spray directly on clothes, fabrics or other materials.

FLEAS: Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices along and behind baseboards, moldings, window and door frames, and localized areas of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment. Concurrent treatment of animals with an approved insecticide is recommended. Repeat treatment as needed.

STORED PRODUCT INSECTS (accessible stages)

FLYING MEDITERRANEAN FLOUR MOTHS, INDIAN MEAL (CHOCOLATE) MOTHS, ANGIUMSIS GRAIN MOTHS: Close doors and windows. Direct aerosol mist to all parts of the room, especially into dark enclosures and around product containers where adult moths may be resting. Use a minimum treatment of six to eight seconds per 1000 cubic feet of space. Keep area closed for 30 minutes after each treatment. Repeat treatment weekly or as flying moths appear. Infested stored food products should be fumigated or treated with an approved product.

CONFUSED FLOUR BEETLES, RICE WEEVILS AND GRANARY WEEVIL: Direct treatment toward insects into cracks, crevices, around machinery, around containers of stored products and other areas that may harbor insects. Hit as many insects as possible. A minimum dosage of 1 to 15 seconds treating time per 100 sq. ft. of floor space is recommended. Repeat treatment at least 45 minutes. Repeat treatment as required.

STORAGE AND DISPOSAL

Storage: Do not use or store near heat or open flame.

Disposal: Do not reuse empty container. Wrap container and put in trash collection.

PRECAUTIONARY STATEMENT HAZARD TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Wash what surfaces thoroughly soon. Avoid breathing vapors. If spray mist is in contact with skin, clothes, in case of contact, immediately flush with water. Wash with plenty of water. Obtain medical attention if irritation persists.

Do not apply directly to food or animal food handling facilities. Wash thoroughly with soap and water before using equipment during application. Do not apply where food processing is in progress. After spraying, wash in meat processing plants, bakeries and other food processing plants, wash all equipment, benches, shelving, etc. where exposure is likely. Wash hands with potable water in the home after food processing. Infants and children should be removed during treatment or thoroughly washed before use.

Remove pets, birds and caged fish aquariums before spraying.

PHYSICAL OR CHEMICAL HAZARDS

Do not use under pressure from liquefaction or incineration. Container Exposure to temperature above 100°F may cause bursting.

21-160-481



DEC 22 1988

ACCEPTED
with comments
for label revision



Devrinol[®]
2-E

**Selective Herbicide
emulsifiable liquid for use on
tomatoes, peppers, strawberries
and tobacco**

Complete Directions For Use, Use Precautions and Recommendations
ICI AMERICAS INC.

Agricultural Products, Wilmington, DE 19897
EPA Reg. No. 10182-219
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OR MERCHANTABILITY. 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 uses 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.: 3,480,671; 3,718,455

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MONOCHLOROBENZENE.

Keep Out of Reach of Children

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.

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

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 inhaler, 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)327-8633, OR CHEMTREC (800)424-9300.

For other product information, contact your local ICI Americas Distributor or see Material Safety Data Sheet.

**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 wetlands
- Do not apply when weather conditions favor drift from areas treated
- Do not contaminate water by cleaning of equipment or disposal of wastes. 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

WEEDS CONTROLLED

STRAWBERRIES

NOTE: DEVRINOL does not control established weeds

ANNUAL GRASSES:

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

ANNUAL BROADLEAF WEEDS:

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

*From seed

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 (*Eleusine indica*)
Seedling Johnsongrass (*Sorghum halepense*)

ANNUAL BROADLEAF WEEDS:

Carpetweed (*Mullugo verticillata*)
Common Purslane (*Portulaca oleracea*)
Lambsquarters (*Chenopodium album*)
Redroot Pigweed (*Amaranthus retroflexus*)

DIRECTIONS FOR USE

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

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

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

RECOMMENDATIONS

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

TOMATOES

(Direct Seeded and Transplanted):

Apply 1/2 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 1/2 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 1/2 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)

- 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

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

A tank mix combination of DEVIRINOL 2-E and TILLAM 6-E 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 a alfalfa, small grains, sorghum, corn, lettuce or sugarbeets for 12 months after application of DEVIRINOL 2-E/TILLAM 6-E tank mix.

WEEDS CONTROLLED

The tank mix 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.)
Gnasegrass (*Eleusine indica*)
Millet (*Setaria* spp.)
Signalgrass (*Bracharia piligera*)
Wild Oats (*Avena fatua*)

ANNUAL BROADLEAF WEEDS:

Chickweed (*Stellaria media*)
Common Fiddleneck (*Amsinckia intermedia*)
Common Knotweed (*Polygonum aviculare*)
Common Purslane (*Portulaca oleracea*)
Common Sowthistle (*Sonchus oleraceus*)
Filaree (*Erodium* spp.)
Groundsel (*Senecio* spp.)
Little Mallow* (*Malva parviflora*)
Lambsquarters (*Chenopodium album*)
Pineappleweed (*Matricaria matricarioides*)
Prickly Lettuce (*Lactuca scariola*)
Redroot Pigweed (*Amaranthus retroflexus*)
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 tank mix 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 DEVIRINOL 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 5 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 DEVIRINOL 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 DEVIRINOL 2-E plus 2½ quarts TILLAM 6-E per broadcast acre.

DEVIRINOL 2-E/TILLAM 6-E/DYFONATE 4-EC TANK MIX COMBINATION

A tank mix combination of DEVIRINOL 2-E, DYFONATE 4-EC and TILLAM 6-E can be applied and mixed into the soil before planting tomatoes or tobacco, for control of weeds and soil insects. Refer to DEVIRINOL/TILLAM Tank Mix 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 tank mix 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 DEVIRINOL 2-E/TILLAM 6-E Tank Mix Recommendations for methods of tank mixing, application and incorporation.

RECOMMENDATIONS

TOMATOES (Direct Seeded [California Only] and Transplanted): Apply 1/2 to 1 gallon DEVRINOL 2-E plus 2 3/4 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 1/2 gallon DEVRINOL 2-E plus 2 3/4 qts. TILLAM 6-E plus 2 qts. DYFONATE 4-EC for control of wireworms in 25 to 50 gallons of water per broadcast acre.

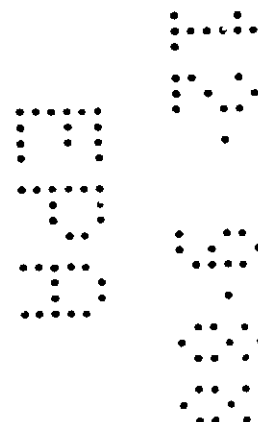
STORAGE AND DISPOSAL

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 residue 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.





Devrinol 2-E

Selective Herbicide

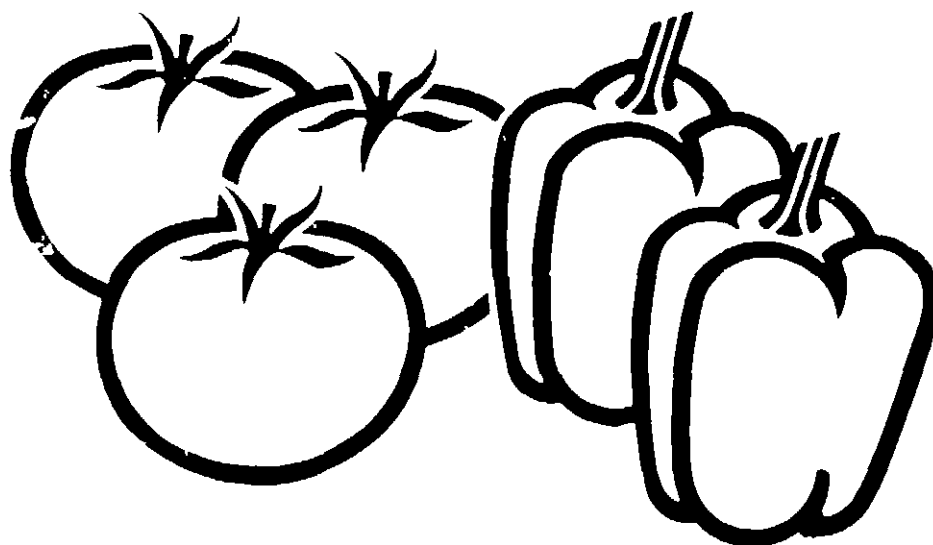
Active ingredient	21.8%
N,N-diethyl-2-(1-naphthyl)ethylamine hydrochloride	78.2%
Other ingredients	100.0%

Apply to soil in row or broadcast manner. Do not apply to plants.

**emulsifiable liquid for
use on tomatoes, peppers,
strawberries and tobacco**

**Keep Out
of Reach
of Children
DANGER
Harmful If
Swallowed or
Absorbed
Through Skin**

See Back Panel For Additional
Precautionary Statements



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