

(Stauffer Shield) PM 25  
476-1615

1/19

TILLAM® 6-E  
Selective Herbicide

Liquid herbicide for weed control in tobacco, tomatoes, and sugar beets.

ACTIVE INGREDIENT:

S-propyl butylethylthiocarbamate . . . . . 77.32%

INERT INGREDIENTS: . . . . . 22.68%  
100.00%

Contains 6 Lbs. Active Ingredient Per Gallon

KEEP OUT OF REACH OF CHILDREN

C A U T I O N

HARMFUL IF SWALLOWED

STATEMENT OF PRACTICAL TREATMENT

**ACCEPTED**  
DEC 21 1987  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 476-1615

FIRST AID: If a known exposure occurs or is suspected, immediately start the recommended procedures below. Simultaneously contact a Poison Control Center, a physician or the nearest hospital. Describe the situation and follow the advice given.

If Swallowed: Immediately give several glasses of water but do not induce vomiting. This product contains hydrocarbon solvent. If vomiting occurs, 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.

For Skin Contact: Flush affected areas with large amounts of running water for at least 15 minutes and get medical attention. Remove and clean contaminated clothing and shoes.

For Eye Contact: Hold eyelids apart and flush eyes with large amounts of running water for 15 minutes. Get medical attention if irritation occurs.

If Inhaled: Remove to fresh air. Get medical attention if respiratory irritation occurs or if breathing becomes difficult.

FOR ADDITIONAL MEDICAL INFORMATION, CALL COLLECT, STAUFFER EMERGENCY MEDICAL ASSISTANCE (203) 226-6602 OR CHEMTREC (800) 424-9300.

EPA Reg. No. 476-1615 \_\_\_\_\_ GAL NET RS-871119  
EPA Est. 476-

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: United States of America  
Patent Nos:

Made in U.S.A by

STAUFFER CHEMICAL COMPANY  
HESTON CT 06221 0950

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## PRECAUTIONARY STATEMENTS

## Hazards to Humans and Domestic Animals

## C A U T I O N

HARMFUL IF SWALLOWED: Avoid contact with skin, eyes and clothing. Avoid inhalation of spray mist. Wear rubber gloves and fresh clothing. Wear goggles to avoid contact with eyes. Wash with soap and water immediately after use or contact. Keep away from heat and flame. Do not contaminate food and feed.

Do not apply this product in such a manner as to directly or through drift, expose workers or other persons. When using the solid set sprinkler method of application, the area being treated must be vacated by unprotected persons.

ENVIRONMENTAL HAZARDS - Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

WEEDS CONTROLLEDANNUAL GRASSES:

Barnyardgrass (Watergrass) (Echinochloa Spp.)  
 Bermudagrass, seedling (Cynodon dactylon)  
 Crabgrass (Digitaria Spp.)  
 Foxtails-Yellow, Giant, Green - (Setaria Spp.)  
 Goosegrass (Eleusine indica)  
 Millet (Setaria Spp.)  
 Narrow Leaf Signalgrass (Brachiaria piligera)  
 Wild Oats (Avena fatua)

ANNUAL BROADLEAF WEEDS:

Black-Eyed-Susan (Sweet Suzy) (Rudbeckia serotina)  
 Deadnettle: Henbit (Lamium amplexicaule)  
 Florida Pusley (Richardia scabra)  
 \*Hairy Nightshade (Solanum villosum)  
 Lambsquarters (Chenopodium album)  
 Nettleleaf goosefoot (Chenopodium murale)  
 Prostrate Pigweed (Amaranthus graecizans)  
 Purslane; Common (Portulaca oleracea)  
 Redroot Pigweed (Amaranthus retroflexus)  
 Shepherdspurse (Capsella bursa-pastoris)

The above broadleaf weeds will be controlled only if TILLAM 6-E is applied when conditions are favorable for germination.

\*Suppression (partial control)

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PERENNIAL WEEDS:

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.

GENERAL USE PRECAUTIONS

READ ALL LABEL DIRECTIONS BEFORE USING.

TILLAM 6-E should be used only for recommended purposes and at recommended rates (do not overdose).

Applied according to directions and under normal growing conditions, TILLAM 6-E will not harm the treated crop. During germination and early growth, extended periods of unusually cold and wet or hot and dry weather, insect, nematode, or plant disease attack, the use of certain soil applied systemic insecticides, highly saline or alkaline soil conditions, improperly placed fertilizers or soil insecticides may create abnormal conditions that weaken crop seedlings. TILLAM 6-E used under these abnormal conditions could result in crop injury.

DIRECTIONS FOR USE OF TILLAM 6-E

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

TILLAM 6-E is a selective herbicide which is mixed (incorporated) into the soil, or applied below the surface of the soil, or applied through solid set sprinklers for control of weeds listed on this label. TILLAM 6-E 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.

SOLID SET SPRINKLERS

USE PRECAUTIONS: Apply this product only through solid set sprinkler irrigation system. Do not apply this product through any other type of irrigation system.

- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.
- If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

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- 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.

#### USE REQUIREMENTS:

- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back-flow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve locate on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

#### TILLAM 6-E WITH FLUID FERTILIZER

TILLAM 6-E may be combined with fluid (solution, slurry or suspension) fertilizers. However, physical compatibility with these fertilizers must be determined before combining in the spray tank. See Appendix I, giving directions for these combinations. Even though found to be compatible constant agitation is necessary to keep the TILLAM 6-E evenly mixed with the liquid fertilizer.

#### IMPREGNATION ON DRY FERTILIZER

TILLAM 6-E may be impregnated on many dry bulk fertilizers for incorporation prior to transplanting of tobacco to control weeds listed on this label. To insure optimum results, TILLAM 6-E must be uniformly distributed on the fertilizer particles. See Appendix II for special instructions regarding directions for impregnation and use.

APPLICATION DIRECTIONS The soil should be well-worked and dry enough to permit good soil mixing (incorporation) or sub-surface application. Pour the recommended amount of TILLAM 6-E into the spray tank during the filling operations. Apply in 10 to 50 gallons of water per acre.

For soil incorporated applications, use a properly calibrated, low-pressure, boom-type sprayer having good agitation. For sub-surface applications, soil should be free of trash. Special equipment designed for subsurface application must be used. Sweeps must be mounted immediately ahead of the planter unit.

In irrigated areas, do not apply TILLAM 6-E before pre-irrigation.

For all band applications, use proportionately less material per acre depending upon row spacing and band width to be treated. Do not use band application on rocky ground because thorough incorporation is not possible.

INCORPORATION DIRECTIONS TILLAM 6-E must be mixed (incorporated) into the soil IMMEDIATELY after application to prevent loss by evaporation of the herbicide. 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 light 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-tooth 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 OR AFTER PLANTING: Use power-driven cultivation equipment set to cut to a depth of two to three inches, OR on light soils only, ground-driven tillers (rolling cultivators, rotary hoe, row wheels, etc.) set to cut to a depth of 1-1/2 inches and operated at 6 to 8 mph. When using ground-driven tillers pre-cultivate if soil is crusted. When incorporating after planting, care must be taken not to disturb the crop seedling.

SUB-SURFACE DIRECTIONS (Tobacco only); Special equipment designed for sub-surface sweep application MUST be used. Sweeps must be mounted immediately ahead of the planter unit.

COVERED SWEEPS: Set the sweeps to run below the soil surface deep enough to cover the TILLAM 6-E with 5 to 6 inches of soil. Calibrate by measuring the spray band width at the back of the sweep, not the sweep width. NOTE: When applying with sweeps, TILLAM 6-E must be applied deep enough to allow 3-4 inches of soil to remain over the treatment after the transplanting operation.

BED-OVER METHOD OF APPLICATION: Apply TILLAM 6-E in a band immediately in front of bedding discs. Set discs so that TILLAM 6-E is covered with 6 inches of soil. Set bedding discs so that treated soil is not folded in. If bed levelers are used at transplanting, beds should be made higher to compensate for leveling, i.e., so that 3 to 4 inches of soil are left above the TILLAM 6-E treatment.

SOLID SET SPRINKLER APPLICATION (Tomatoes only, Western Region): Meter the TILLAM 6-E into the irrigation water during the entire period. Apply in 1/4 to 1/2 acre inch of water or sufficient water to penetrate the soil to a depth of 2 to 4 inches.

Time the TILLAM application to insure that proper penetration of the herbicide corresponds with the end of the irrigation period. Flush the lines then turn the water off promptly. Tailwater (run-off water) from irrigation should be recirculated.

Application of more than recommended quantities of irrigation water may result in decreased product performance by removing the chemical from the zone of effectiveness.

PLANTING: For maximum weed control benefits, crops should be planted or seeded immediately after application. Do not use a drag behind the planter as it may concentrate TILLAM 6-E over the seed row and cause crop injury.

#### CULTURAL PRACTICES FOLLOWING APPLICATION

TILLAM 6-E is not persistent in the soil and susceptible weeds germinating later in the season may not be controlled. Shallow cultivation or approved post-emergence herbicides may be necessary to control susceptible weeds that escape control by TILLAM 6-E as well as those weeds not susceptible to TILLAM 6-E. Do not cultivate deeper than the depth of herbicide incorporation.

When cultivating fields where TILLAM 6-E has been banded in the row, use shields to prevent the movement of untreated soil into the treated row.

#### RECOMMENDATIONS

##### SUGAR BEETS, PRE-PLANT

Apply just prior to planting; see DIRECTIONS FOR USE for methods of application and incorporation. Recommended dosages are as follows:

For light textured soils and soils with less than 10% organic matter, apply 2-2/3 qts. TILLAM 6-E/acre.

For heavy textured soils and soils with over 10% organic matter, apply 4 qts. TILLAM 6-E/acre.

UNRECORDED

TOBACCO, FLUE-CURED

BEFORE BEDDING AND TRANSPLANTING: Apply TILLAM 6-E broadcast at 2-2/3 qts. per acre. Incorporate immediately with a tandem disc and bed up immediately prior to transplanting.

OR

AFTER BEDDING BUT BEFORE TRANSPLANTING: Apply TILLAM 6-E at a broadcast rate of 2-2/3 qts. per acre prior to transplanting, reducing amount per acre proportionately depending upon band width and row spacing. Incorporate immediately using a power-driven rotary hoe with variable length blades (i.e., one with short blades on the inside and longer blades on the outside). Bed levelers, if used should be kept shallow as excessive removal of treated soil will destroy weed control.

OR

SUB-SURFACE SWEEPS AFTER BEDDING BUT BEFORE TRANSPLANTING: Run at a depth so that when bed is in final shape, 3 to 4 inches of soil will cover the TILLAM 6-E. Apply TILLAM 6-E at 2 qts. per acre, just prior to transplanting. For band treatment, reduce amount per acre proportionately depending upon band width and row spacing.

TOBACCO, LIGHT AIR CURED: Includes Type 31 (Burley) & Type 32 Tobaccos, Type 41 Cigar Filler. Types 54 and 55 Cigar Binder

BEFORE TRANSPLANTING: Apply TILLAM 6-E broadcast at 2-2/3 qts. per acre. Incorporate immediately, only with a tandem disc on flat ground followed by transplanting. For band treatment reduce amount per acre proportionately depending upon band width and row spacing. Incorporate immediately, using a power-driven rotary hoe.

TOMATOES

SEE DIRECTIONS FOR USE FOR METHODS OF APPLICATION AND INCORPORATION.

DIRECT SEEDED: (Western Region Only)

Apply TILLAM 6-E just prior to planting.

For light textured soils and soils with less than 10% organic matter, apply 2-2/3 qts. TILLAM 6-E/acre.

For heavy textured soils and soils with more than 10% organic matter, apply 4 qts. TILLAM 6-E/acre.

OR

(DEPT. AGRICULTURE)

DIRECT SEEDED, LAYBY: (Not pre-plant)

Apply TILLAM 6-E as a directed spray to clean cultivated soil. Do not apply within eight (8) days of harvest.

For light textured soils and soils with less than 10% organic matter, apply 2-2/3 qts. TILLAM 6-E/acre.

For heavy textured soils and soils with more than 10% organic matter apply 4 qts. TILLAM 6-E/acre.

OR

DIRECT SEEDED, SPRINKLER APPLICATION (Western Region only):

Apply TILLAM 6-E through solid set sprinklers prior to or immediately after planting, before weeds emerge.

For light textured soils and soils with less than 10% organic matter, apply 2 2/3 qts. TILLAM 6-E/acre.

For heavy textured soils and soils with more than 10% organic matter, apply 4 qts. TILLAM 6-E/acre.

OR

PLUG PLANTED, PRE-PLANT (Western Region only): Prior to plug planting tomatoes, apply and soil incorporate up to 6 2/3 quarts of TILLAM 6-E per acre. Use higher rate for hairy nightshade.

TOMATO TRANSPLANTS (DO NOT USE HOTCAPS)

BEFORE TRANSPLANTING: Apply TILLAM 6-E prior to transplanting.

OR

AFTER TRANSPLANTING: Apply TILLAM 6-E as a directed spray to clean, cultivated soil. Do not apply within eight (8) days of harvest.

For light textured soils and soils with less than 10% organic matter apply 2-2/3 qts. TILLAM 6-E/acre.

For heavy textured soils and soils with more than 10% organic matter, apply 4 qts. TILLAM 6-E/acre.

TOMATO TRANSPLANTS (South Carolina Only):

BEFORE BEDDING AND TRANSPLANTING: Apply TILLAM 6-E at a broadcast rate of 2 qts. per acre just prior to bedding and transplanting, reducing the amount per acre proportionately depending upon band width and row spacing. Use bed-over method of application.

OR

AFTER BEDDING BUT BEFORE TRANSPLANTING: Apply TILLAM 6-E at a broadcast rate of 2 qts. per acre just prior to transplanting, reducing amount per acre proportionately depending upon band width and row spacing. Apply to the top of the bed and incorporate four to six inches into the bed top.

OR

POST-EMERGENCE, OR AFTER TRANSPLANTING: Apply TILLAM 6-E at a broadcast rate of 2 qts. per acre reducing amount per acre proportionately depending upon band width and row spacing. Apply in a directed spray to soil around base of tomato plants using bands on either side of the row. Immediately after treatment, sweep out row centers to effectively cover TILLAM 6-E treatment with a layer of soil two inches deep. Do not apply within eight (8) days of harvest.

TILLAM 6-E/DASANIT\* SPRAY CONCENTRATE  
TANK MIX COMBINATION

\*DASANIT is a Registered Trademark of the Parent Company of Farbenfabriken Bayer, GMBH, Leverkusen.

TILLAM 6-E IN COMBINATION WITH DASANIT SPRAY CONCENTRATE controls nematodes, wireworms and weeds controlled by TILLAM 6-E in tobacco (Flue Cured and Light Air Cured).

NOTE: DASANIT\* is a Restricted Use Pesticide. Refer to the label for DASANIT SPRAY CONCENTRATE for pertinent directions and precautions for use, and restrictions.

APPLICATION DIRECTIONS AND RECOMMENDATIONS: The soil should be well worked and dry enough to permit good soil incorporation (mixing into the soil). Apply 2-2/3 qts. TILLAM 6-E and 4 qts. DASANIT SPRAY CONCENTRATE in 20 to 50 gallons water per acre. Use a properly calibrated low-pressure boom-type sprayer having good agitation.

SOIL INCORPORATION: The tank mix must be incorporated (mixed) into the soil immediately after application to prevent loss of the herbicide by evaporation. Whenever possible, application and incorporation should be done in the same operation. Use power-driven cultivation equipment set to cut to a depth of 3" in light soil and 3 to 4" in heavy soil or a tandem disc set to cut to a depth of 4 to 6".

Cross disc at right angles for thorough mixing. The bedding operation should follow the incorporation as soon as is practical. Planting may be done immediately after bedding or at a later date; however, to insure long term weed control, the crop should be planted as soon as possible after application and bedding.

TILLAM 6-E/MOCAP\* EC TANK MIX COMBINATIONS

\*MOCAP is a Registered Trademark of Mobil Chemical Company.

A tank mix of TILLAM 6-E and MOCAP EC can be applied and mixed into the soil before transplanting for control of weeds, wireworms and nematodes in tobacco.

NOTE: MOCAP is a Restricted Use Pesticide. Refer to the label of MOCAP EC for pertinent directions and precautions for use, and restrictions.

TANK MIXING DIRECTIONS: The TILLAM 6-E/MOCAP EC tank mix combination can be mixed with water and applied as a spray. Pour the recommended amount of TILLAM 6-E directly into the nearly filled spray tank while agitating. Next add the recommended amount of MOCAP EC. Fill the remaining portion of the tank with water; mix thoroughly. Maintain a moderate agitation to provide a uniform mix during application.

APPLICATION DIRECTIONS AND RECOMMENDATIONS: The soil should be well-worked and dry enough to permit good soil mixing (incorporation). Apply 2-2/3 qts. TILLAM 6-E plus 1 gallon MOCAP EC in 10 to 50 gallons water per acre. Use a properly calibrated low-pressure, boom-type sprayer having good agitation.

INCORPORATION DIRECTIONS: The TILLAM 6-E/MOCAP 6-E tank mix combination 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. Use 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 the ends of the disc. For thorough mixing, disc in two different directions (cross disc).

TILLAM 6-E/PAARLAN\* ECTANK MIX COMBINATIONS

\*PAARLAN is a Registered Trademark of Elanco Products Co., Div. of Eli Lilly and Co.

A tank mix of TILLAM 6-E and PAARLAN EC can be applied and mixed into the soil before transplanting for additional weed control and longer season grass control in tobacco.

NOTE: Refer to the label of PAARLAN EC for pertinent directions and precautions for use, and restrictions.

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TANK MIXING DIRECTIONS: The TILLAM 6-E/PAARLAN EC tank mix combination can be mixed with water and applied as a spray. Pour the recommended amount of TILLAM 6-E directly into the nearly filled spray tank while agitating. Next add the recommended amount of PAARLAN EC. Fill the remaining portion of the tank with water; mix thoroughly. Maintain a moderate agitation to provide a uniform mix during application.

APPLICATION DIRECTIONS AND RECOMMENDATIONS: The soil should be well-worked and dry enough to permit good soil mixing (incorporation). Apply 2-2/3 qts. TILLAM 6-E plus 2 pints PAARLAN EC in 10 to 50 gallons water per acre. Use a properly calibrated low-pressure, boom-type sprayer having good agitation.

INCORPORATION DIRECTIONS: The TILLAM 6-E/PAARLAN EC tank mix combination 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. Use 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 the ends of the disc. For thorough mixing, disc in two different directions (cross disc).

TILLAM 6-E/DEVRIKOL (50-WP OR 4F)

TANK MIX COMBINATION APPLIED PRE-PLANT INCORPORATED

A tank mix combination of TILLAM 6-E and Devrinol (50-WP or 4F) can be applied and mixed (incorporated) into the soil before planting for weed control in tomatoes and tobacco.

WEEDS CONTROLLED

Annual Grasses:

Barnyardgrass (Watergrass)	( <u>Echinochloa crus-galli</u> )
Bermudagrass, seedling	( <u>Cynodon dactylon</u> )
Crabgrass	( <u>Digitaria spp.</u> )
Foxtails (Giant, Green, Yellow)	( <u>Setaria spp.</u> )
Goosegrass	( <u>Eleusine indica</u> )
Millet	( <u>Setaria spp.</u> )
Narrow Leaf Signalgrass	( <u>Brachiaria piligera</u> )
Wild Oats	( <u>Avena fatua</u> )

Annual Broadleaf Weeds:

Black-Eyed Susan (Sweet Suzy)	( <u>Rudbeckia serotina</u> )
Deadnettle (Henbit)	( <u>Lamium amplexicaule</u> )
Florida pusley	( <u>Richardia scabra</u> )
Hairy Nightshade*	( <u>Solanum villosum</u> )
Lambsquarters	( <u>Chenopodium album</u> )
Nettleleaf Goosefoot	( <u>Chenopodium murale</u> )
Prostrate Pigweed	( <u>Amaranthus græcizans</u> )
Purslane, Common	( <u>Portulaca oleracea</u> )
Redroot Pigweed	( <u>Amaranthus retroflexus</u> )
Shepherdspurse	( <u>Capsella bursa-pastoris</u> )

\*Suppression (partial control)

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The above broadleaf weeds will be controlled only when the TILLAM/DEVIRINOL tank mix is applied when conditions are favorable for germination.

Perennial Weeds:

Purple Nutsedge (Purple Nutgrass)	( <u>Cyperus rotundus</u> )
Yellow Nutsedge (Yellow Nutgrass)	( <u>Cyperus esculentus</u> )

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

Note: 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.

Tank Mixing Directions: The TILLAM 6-E/Devrinol (50-WP or 4F) tank mix combination can be mixed with water and applied as a spray. Pour the recommended amounts of TILLAM 6-E and Devrinol (50-WP or 4F) into a spray tank during the filling operations. When using Devrinol 50-WP, add first to the spray tank, then add the Tillam 6-E. Maintain adequate agitation of the tank mix. Apply in 25 to 50 gallons of water per acre.

Application Directions and Recommendations: The soil should be well-worked and dry enough to permit good soil mixing (incorporation).

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 band application 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. Wherever possible, application and incorporation should be done in the same operation.

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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 spiked-tooth harrow or some other leveling device which extends beyond ends of the disc. For thorough mixing, disc in two different direction (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 1-1/2 inches and operated at 6 to 8 mph. When using ground-driven tillers, precultivate 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 (Directed Seeded (California Only) and Transplanted): Apply 2 to 4 pounds DEVRINOL 50-WP (1 to 2 quarts DEVRINOL 4-F) plus 2-2/3 to 4 qts. 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 hotcaps on transplanted tomatoes.

Tobacco (Transplanted): Before transplanting, apply 2 pounds DEVRINOL 50-WP (1 qt. DEVRINOL 4-F) plus 2-2/3 quarts TILLAM 6-E per broadcast acre.

To avoid injury to crops not specified on the label, do not plant until 12 months after the last DEVRINOL application.



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Tillam 6-E/Dyfonate (4-E,4-EC, or 4-ED)/Devrinol (50-WP, 4F or 2-E)  
Tank Mix Combination

A tank mix combination of TILLAM 6-E, DYFONATE 4-E,4-EC, or 4-ED and DEVRINOL 50-WP, 4-F or 2-E can be applied and mixed into the soil before transplanting tomatoes and tobacco, for control of weeds and soil insects. Refer to Tillam/Devrinol Tank Mix Combination for list of weeds controlled.

Note: Dyfonate 4-E,4-EC, and 4-ED are Restricted Use Pesticides. 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 of 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 TILLAM/DEVRIKOL Tank Mix Recommendations for methods of tank mixing, application and incorporation.

RECOMMENDATIONS:

Tomatoes (Direct Seeded (California Only) and Transplanted): Apply 2-2/3 to 4 qts. TILLAM 6-E plus 2 to 4 pounds DEVRINOL 50-WP, or 1 to 2 qts. DEVRINOL 4-F or 2 to 4 qts DEVRINOL 2-E plus 2 qts. DYFONATE 4-E, 4-EC, or 4-ED for control of symphylans or 4 quarts for control of symphylans and wireworms in 25 to 50 gallons of water per broadcast acre. Use the lower DEVRINOL and TILLAM rates on light soils (coarse texture-sandy) and the higher rates on heavy soils (fine textured-clay). Do not use hotcaps on transplanted tomatoes.

Tobacco (Transplanted): Before transplanting, apply 2-2/3 qts. TILLAM 6-E plus 2 pounds DEVRINOL 50-WP, or 1 qt. DEVRINOL 4-F or 2 qts. DEVRINOL 2-E plus 2 quarts DYFONATE 4-E,4-EC, or 4-ED for control of wireworms in 25 to 50 gallons of water per broadcast acre.

To avoid injury to crops not specified on the label, do not plant until 12 months after the last DEVRINOL application.

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APPENDIX ITILLAM 6-E WITH FLUID FERTILIZERS

The following procedure is suggested for determining whether TILLAM 6-E may be combined with a specific fluid fertilizer for spray tank application.

MATERIAL REQUIRED:

1. TILLAM 6-E.
2. Fluid fertilizer to be used.
3. Adjuvant for fertilizer tank mix: Compex\*, Sponto 168-D\*, Uni-Mix\*, or equivalent. The adjuvant which provides the best emulsification depends on the specific fertilizer under consideration.
4. Two one-quart, wide-mouth glass jars with lid or stopper.
5. Measuring spoons (a 25 mL pipette or graduated cylinder provides more accurate measurement).
6. Measuring cup, 8 oz. (237 mL).

\*Compex, Colloidal Products Incorp., Petaluma, Calif. Sponto 168-D, Retzliff Chemical Company, Houston, Texas, Un-Mix, Thompson-Hayward Chemical Co., Kansas City, Kansas.

PROCEDURE:

1. Pour a pint (about 473 mL) of the fluid fertilizer into each of the quart jars.
2. Add adjuvant to one of the jars and mix (see rate table).
3. Add the TILLAM 6-E to both jars (see rate table).
4. Close both jars with lid or stopper and mix the contents by turning the jars upside down ten times.
5. Inspect the surface and body of the mixtures-
  - (A) Immediately after completing the jar inversions.
  - (B) After allowing the jars to stand quietly for 30 minutes
  - (C) And then again after turning the jars upside down 10 times.

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APPENDIX I  
(continued)

If the uniform mix cannot be made, the mixture should not be used. If either mixture remains uniform for 30 minutes, the combination may be used. Should either mixture separate after 30 minutes, but readily remix uniformly with the jar inversions, the mixture can be used if adequate agitation is maintained in the tank. If the mixture with adjuvant is satisfactory, but the one without adjuvant is not, be sure to use the adjuvant in the spray tank. Add the adjuvant first at a rate of 3 pints per 100 gallons of fluid fertilizer; foaming can be minimize by using moder agitation.

If nondispersible oil, sludge or clumps of solids form in the mixtures, the combinations should not be used.

RATE TABLE FOR TILLAM 6-E AND  
ADJUVANT\*\* WITH THE FLUID FERTILIZER

Gallons of fluid fertilizer to be applied per acre	mL or Tsp. or TILLAM 6-E* to be added to 1 pint of fertilizer	
	6-E	
	mL	Tsp.
10	8	1-2/3
15	5	1
20	4	3/4
25	3	2/3
30	2-1/2	1/2
40	2	2/5

\*Based on field rate of 1 pound active ingredient per acre in the fertilizer volumes indicated. Increase volume proportionately to correspond with intended field rate in terms of pounds active ingredient per acre (e.g., for field rate of 4 pounds actual TILLAM 6-E in 40 gallons fertilizer per acre, add 8 mL or 2 tsp. TILLAM 6-E to each jar for compatibility testing purposes).

\*\*Two (2) milliliters or one-half (1/2) teaspoon of adjuvant to be added to 1 pint of fluid fertilizer in order to equal the rate of 3 pints of adjuvant per 100 gallons of fluid fertilizer.

APPENDIX IITILLAM® 6-E IMPREGNATION ON DRY BULK FERTILIZERS FOR  
USE ON TOBACCO

**CAUTION:** TILLAM 6-E must not be impregnated on ammonium nitrate, sodium nitrate or potassium nitrate. Such mixtures may cause explosion and fire.

TILLAM 6-E may be impregnated on many dry bulk fertilizers\* and applied and incorporated in the soil before planting for the control of grasses and broadleaf weeds in tobacco.

Field results have shown that TILLAM 6-E on bulk dry fertilizers gives weed control equal to TILLAM 6-E applied as a spray in water. However, uniform impregnation of TILLAM 6-E on the dry fertilizer particles and uniform application in the field are necessary to assure good results.

For impregnating TILLAM 6-E on dry fertilizer, use a closed rotary-drum mixer or a similar type of closed blender equipped with suitable spray equipment. The spray nozzle (or nozzles) should be positioned inside of the mixer to provide uniform spray coverage of the tumbling fertilizer. The physical properties of fertilizers vary, particularly in liquid absorptive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with TILLAM 6-E provides a satisfactory, dry mixture. If the absorptive capacity is inadequate, use of a highly absorptive powder is required to provide a dry, flowable mixture. Microcel E (Johns-Manville Products Corp.) is the recommended absorbent powder. It should be added separately and uniformly to the prepared TILLAM 6-E fertilizer mixture, in a quantity that is sufficient to provide a suitably flowable mixture. Generally less than 2% by weight of Microcel E is required. The amount of TILLAM 6-E actually required in the manufacture of individual fertilizer mixtures should be determined carefully for each production operation. This is necessary to ensure that the amount of TILLAM 6-E actually contained in the mixture applied to the soil represents the correct rate of use.

All TILLAM 6-E supplementary literature instructions and label recommendations regarding rates per acre, soil incorporation, application, cautions, general use precautions and other directions must be followed.

All individual state regulations relating to bulk dry fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the fertilizer and TILLAM 6-E mixture.

A minimum of 200 pounds and a maximum of 2,000 pounds of approved ingredients\* impregnated with TILLAM 6-E at the recommended rate must be applied per acre.

APPENDIX II

Bulk fertilizer impregnated with TILLAM 6-E should be applied immediately, not stored. It is recommended that all bulk containers be tightly covered while the product is being transported and applied to reduce chances of TILLAM 6-E loss via volatilization.

\*APPROVED DRY FERTILIZER INGREDIENTS

	<u>N</u>	<u>P</u>	<u>K</u>
Ammonium sulfate	21	0	0
Diammonium phosphate	18	46	0
Potassium chloride	0	0	60
Potassium sulfate	0	0	52
Super-phosphate (single)	0	20	0
Super-phosphate (triple)	0	46	0
Urea	45	0	0
Ammonium phosphate sulfate	16	20	0
11-48-0	11	48	0

Note: K-Mag and two MAP fertilizers (12.5-50-0, 11-54-0) have been shown to be compatible with TILLAM 6-E and are approved for use.

RATE CHART FOR IMPREGNATION OF DRY BULK  
FERTILIZERS WITH TILLAM 6-E

<u>Fertilizer Rate Per Acre</u>	<u>Tillam 6-E Rate Per Acre (2-2/3 qts./acre)</u>
200	26-2/3 qts./ton
300	17-4/5 qts./ton
400	13-1/3 qts./ton
500	10-2/3 qts./ton
600	8-7/8 qts./ton
800	6-2/3 qts./ton
1000	5-1/3 qts./ton
1500	3-3/5 qts./ton
2000	2-2/3 qts./ton

DRY FERTILIZER

STORAGE AND DISPOSAL

- PROHIBITIONS: Do not contaminate water, food, feed or fertilizer by storage or disposal. Open dumping is prohibited.
- PESTICIDE DISPOSAL: Rinse spray equipment. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
- STORAGE: Keep containers closed when not in use. Do not store near seeds, fertilizers or foodstuffs. Protect from temperatures below 20°F but do not store near sources of heat or open flame.
- CONTAINER DISPOSAL:

METAL -- 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.

PLASTIC -- Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned stay out of smoke.

## NOTICE - READ CAREFULLY

CONDITIONS OF SALE: Stauffer (and seller) offer(s) this product for sale subject to, and buyer and all users are deemed to have accepted, the following conditions of sale and warranty which may only be varied by written agreement of a duly authorized representative of Stauffer.

WARRANTY LIMITATION : Stauffer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the directions for use on the label subject to the inherent risks referred to below. Stauffer makes no other express warranties: THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY and there are no warranties which extend beyond the description of the label hereof.

INHERENT RISK: 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 associated with use. Buyer assumes all risks associated with use or application of this product contrary to label instructions or resulting from extraordinary weather conditions.

LIMITATION OF LIABILITY: In no case shall Stauffer be liable for special, indirect or consequential damages resulting from the use or handling of this product and no claim of any kind shall be greater in amount than the purchase price of the product in respect of which such damages are claimed.

