

10182-158

02/05/1991

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Tillam 6E

selective herbicide—liquid herbicide for weed control in tobacco, tomatoes and sugar beets

FOR BULK AND MINI-BULK CONTAINERS

ACTIVE INGREDIENT:	
S-Propyl butylethylthiocarbamate	77.32%
INERT INGREDIENTS	22.68%
	100.00%

Contains 6.0 lbs. Active Ingredient per Gallon

Keep Out of Reach of Children

CAUTION

Harmful if swallowed

STATEMENT OF PRACTICAL TREATMENT

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 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (327-8633)

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

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

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

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 or flame. Do not contaminate food or feed.

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

ENVIRONMENTAL HAZARDS: Keep out of any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL AND CHEMICAL HAZARDS: Keep away from heat and flame.

Can be stored at temperatures as low as minus 50°F.

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 and open flame.

Container disposal:

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.

FOR MINI-BULK CONTAINERS

CONTAINER PRECAUTIONS

Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions and damaged or worn threads on closure devices.

REFILL ONLY WITH TILLAM 6E. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than TILLAM 6E will result in contamination and may weaken container.

After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking container.

CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER!

NOTICE TO BUYER AND USER: Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label 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 use conditions, or under conditions not reasonably foreseeable to 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. 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: United States of America.

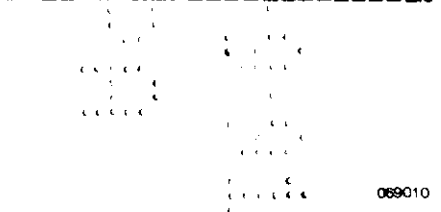
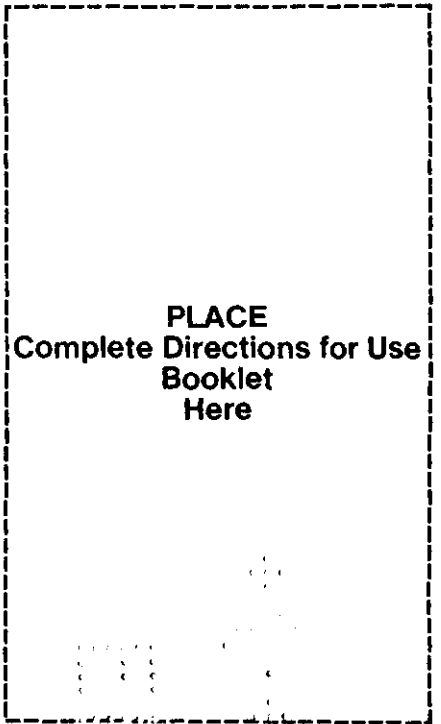
EPA Reg. No. 10182-158
EPA Est. No. 10182-AR-1

ICI Americas Inc. 1990

IMPORTANT

See attached booklet for Use Precautions, Directions for Use and Recommendations.

Read all label directions before using



NET CONTENTS: 110 Gallons



Agricultural Products

ICI Americas Inc.
Wilmington, Delaware 19897

ACCEPTED
FEB 5 1991

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 10182-158

TABLE
STYLES HVS
FILENAME ICI 5360
DATE 2/1/90

069010



Tillam® 6-E

SELECTIVE HERBICIDE

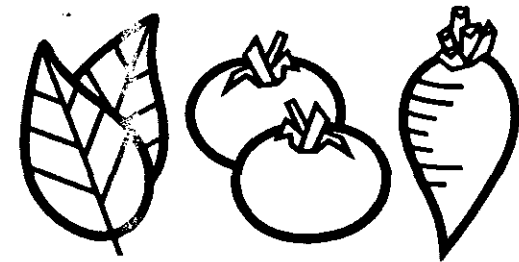
Active ingredient:	
S-Propyl butylethylthiocarbamate.....	77.32%
Inert ingredients:	22.68%
<hr/>	
(Contains 6 lbs. active ingredient per gallon).....	100.00%

liquid herbicide for weed control in tobacco, tomatoes and sugar beets

**Keep Out
Of Reach
Of Children
CAUTION
Harmful If
Swallowed**

See next panel for additional precautionary statements and statement of practical treatment.

EPA Reg. No. 10182-158
EPA Est. No. 10182-AR-1



2.5 GAL. NET 9.45L

ACCEPTED
FEB 5 1991
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 10182-158

ICI 10182-158

6/8



Tillam® 6-E

Selective Herbicide



Tillam® 6-E

Selective Herbicide

Statement of Practical Treatment

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.

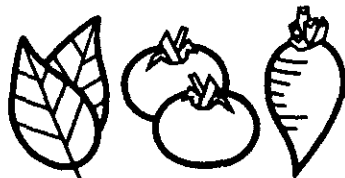
If inhaled: Remove to fresh air. Get medical attention if respiratory irritation occurs or if breathing becomes difficult.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (327-8633).

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



Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

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.

Crops Protected

Tobacco
Tomatoes
Sugar beets

Target Weeds

Annual Grasses:
Barnyardgrass (Watergrass)
Bermudagrass, seedling
Crabgrass

Annual Broadleaf Weeds:
Lambquarters
Redroot pigweed

Perennial Weeds:
Purple Nutsedge
Yellow Nutsedge

Important

Read all label directions before using. See attached booklet for use precautions, directions and recommendations.

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 food-stuffs. Protect from temperatures below 20°F but do not store near sources of heat and open flame.

Container disposal: 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 To Buyer and User

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose stated on the label 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 use conditions, or under conditions not reasonably foreseeable to 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. 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.

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Made in U.S.A. by



Agricultural Products

ICI Americas Inc.
Wilmington, Delaware 19897

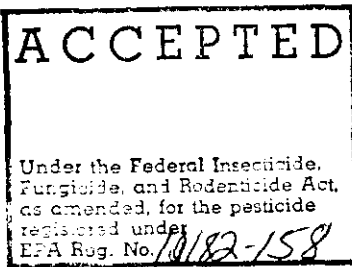
* This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified. Country: United States of America

069010



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This product is sold only for uses stated on the 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.

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

Contains 6 Lbs. Active Ingredient Per Gallon

ACTIVE INGREDIENT:
S-propyl butylethylthiocarbamate 77.32%
INERT INGREDIENTS: 22.68%
100.00%

KEEP OUT OF REACH OF CHILDREN CAUTION

HARMFUL IF SWALLOWED

STATEMENT OF PRACTICAL TREATMENT

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CONTENTS

- Precautionary Statements 3
- Weeds Controlled by Tillam 6-E 3
- General Use Precautions 4
- Directions for Use of Tillam 6-E 5
- Tillam 6-E with Fluid Fertilizer 7
- Impregnation on Dry Fertilizer 7
- Cultural Practices 10
- Recommendations 10
- Tillam 6-E/Dasanit® Spray Concentrate Tank Mix Combination 14
- Tillam 6-E/Mocap® EC Tank Mix Combinations 15
- Tillam 6-E/Paaron® EC Tank Mix Combinations 16
- Tillam 6-E/Devrinol® 50-WP Tank Mix Combination 17
- Tillam 6-E/Dyfonate® 4-EC/Devrinol (50-WP or 2-E) Tank Mix Combination 21
- Appendix I 23
- Appendix II 25
- Storage and Disposal 29

*Dasanit—Reg. TM of Parent Company of Farbenfabriken Bayer, GMBH, Leverkusen.
*Mocap—Reg. TM of Rhone-Poulenc Inc.
*Paaron—Reg. TM of Elianco Products Co.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

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 CONTROLLED

Annual Grasses:

Barnyardgrass	(<i>Echinochloa</i> Spp.)
Whitegrass	
Bermudagrass	(<i>Cynodon dactylon</i>)
Seedling Crabgrass	(<i>Digitaria</i> Spp.)
Foxtails—Yellow	(<i>Setaria</i> Spp.)
Giant, Green Goosegrass	(<i>Elymus indica</i>)
Millet	(<i>Setaria</i> Spp.)
Narrow Leaf Signalgrass	(<i>Brachiaria piligera</i>)
Wild Oats	(<i>Avena fatua</i>)

Annual Broadleaf Weeds:

Black-eyed-susan:	(<i>Rudbeckia serotina</i>)
(Sweet Suzy)	



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

Tillam® 6-E



Complete Directions For Use, Use Precautions and Recommendations

Deadnettle (Henbit)	(<i>Lamium amplexicaule</i>)
Florida pusley	(<i>Richardia scabra</i>)
Hairy nightshade*	(<i>Solanum villosum</i>)
Lambquarters	(<i>Chenopodium album</i>)
Nettleleaf goosefoot	(<i>Chenopodium murale</i>)
Prostrate pigweed	(<i>Amaranthus graecizans</i>)
Purslane, Common	(<i>Portulaca oleracea</i>)
Redroot pigweed	(<i>Amaranthus retroflexus</i>)
Shepherdspurse	(<i>Capsella bursa-pastoris</i>)

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

*Suppression (partial control)

Perennial Weeds:

Yellow nutsedge	(<i>Cyperus esculentus</i>)
Purple nutsedge	(<i>Cyperus rotundus</i>)

Existing stands of nutsedge 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, nema-

tode, 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 sprinklers 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 non-uniform 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.

- 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 located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 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 equip-

ment designed for sub-surface 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 (rotating cultivators, rotary hoe, row wheels, et cetera) 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. 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 ½ 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 (Tobacco only, Western Region): Meter the TILLAM 6-E into the irrigation water during the entire period. Apply in ¼ to ½ 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 2½ qts. TILLAM 6-E/acre.

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

TOBACCO, FLUE-CURED

Before bedding and transplanting: Apply TILLAM 6-E broadcast at 2½ 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 2½ 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 2½ 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 2½ 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, LAYSBY: (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 2½ 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 2½ 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 6½ quarts of TILLAM 6-E per acre. Use higher rate for hairy nightshade.

TOMATO TRANSPLANTS (DO NOT USE HOT-CAPS)

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 2½ 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 treat-

ment 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 2½ 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 Rhone-Poulenc Inc.

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 2½ 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-tooth 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* EC TANK 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.

TANK MIXING DIRECTIONS

The TILLAM 6-E/PAARLAN EC tank mix combination must 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 1/2 qts. TILLAM 6-E plus 2 pints PAARLAN EC in 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-tooth 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/DEVIRINOL® 50-WP TANK MIX COMBINATION APPLIED PRE-PLANT INCORPORATED

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

WEEDS CONTROLLED

Annual Grasses:

Barnyardgrass (*Echinochloa crus-galli*)

17

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

Annual Broadleaf Weeds:

Black-eyed Susan (*Rudbeckia serotina*)
(Sweet Suzy)
Deadnettle (Henbit) (*Lamium emplexicaule*)
Florida pusley (*Richardia scabra*)
Hairy Nightshade* (*Solanum villosum*)
Lambsquarters (*Chenopodium album*)
Nittleleaf Goosefoot (*Chenopodium murale*)
Prostrate Pigweed (*Amaranthus graecizans*)
Purslane, Common (*Portulaca oleracea*)
Redroot Pigweed (*Amaranthus retroflexus*)
Shepherdspurse (*Capsella bursa-pastoris*)

*Suppression (partial control)

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 (*Cyperus rotundus*)
(Purple Nutgrass)
Yellow Nutsedge (*Cyperus esculentus*)
(Yellow Nutgrass)

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/Devirinol 50-WP tank mix combination can be mixed with water and applied as a spray. Pour the recommended amounts of TILLAM 6-E and Devirinol 50-WP into a spray tank during the filling operations. When using Devirinol 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.

19

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-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 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, et cetera) 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.

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 Transplanted): Apply 2 to 4 pounds DEVIRINOL 50-WP plus 2 1/2 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 hotspots on transplanted tomatoes.

TOBACCO (Transplanted): Before transplanting, apply 2 pounds DEVIRINOL 50-WP plus 2 1/2 qts. 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 DEVIRINOL application.

TILLAM 6-E/DYFONATE® 4-EC/ DEVIRINOL 50-WP TANK MIX COMBINATION

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

21

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 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/DEVIRINOL Tank Mix Recommendations for methods of tank mixing, application and incorporation.

RECOMMENDATIONS

TOMATOES (Direct Seeded (California Only) and Transplanted): Apply 2½ to 4 qts. TILLAM 6-E plus 2 to 4 pounds DEVIRINOL 50-WP 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 DEVIRINOL 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 2½ qts. TILLAM 6-E plus 2 pounds DEVIRINOL 50-WP or 2 qts. DYFONATE 4-EC 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 DEVIRINOL application.

APPENDIX I

TILLAM 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.

MATERIALS REQUIRED:

1. TILLAM 6-E.
2. Fluid fertilizer to be used.
3. Adjuvant for fertilizer tank mix: Complex*, 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).

*Complex, Colloidal Products Incorp., Petaluma, Calif. Sponto 168-D, Retzioff Chemical Company, Houston, Texas. Uni-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.

If a 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 minimized by using moderate 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. of TILLAM 6-E* to be added to 1 pint of fertilizer	
	mL	Tsp.
10	8	1½
15	5	1
20	4	¾
25	3	¾
30	2½	½
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 (½) 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 II

TILLAM 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.

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

	N	P	K
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
11-45-0	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**

Fertilizer Rate Per Acre	Tillam 6-E Rate Per Acre (2½ qts./acre)
200	26½ qts./ton
300	17½ qts./ton
400	13½ qts./ton
500	10½ qts./ton
600	8½ qts./ton
800	6½ qts./ton
1000	5½ qts./ton
1500	3½ qts./ton
2000	2½ qts./ton

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, fertilizer 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, reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures.

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.