



BOOKLET LABEL
 EPTAM® 7-E
 Selective Herbicide
 Emulsifiable Liquid

ACCEPTED
 NOV 17 1982
 476-2154

ACTIVE INGREDIENT:

S-ethyl dipropylthiocarbamate 87.8%

INERT INGREDIENTS: 12.2%
 100.0%

Contains 7 pounds active ingredient per gallon

COMPLETE DIRECTIONS FOR USE,
 USE PRECAUTIONS
 REGIONAL CROP RECOMMENDATIONS,
 NATIONAL ORNAMENTAL RECOMMENDATIONS

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. 476-2154
 EPA Est. 476-NB-1

RS-821008

_____ Gal. Net. _____ L.

Made in U.S.A. by
 STAUFFER CHEMICAL COMPANY
 WESTPORT, CT. 06881-0850

Keep Out of Reach of Children

C A U T I O N

Harmful if Swallowed

Statement of Practical Treatment

FIRST AID

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

FOR EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart during flushing to ensure rinsing of the entire surface of the eye and lids with water. Call a physician.

FOR SKIN CONTACT: Flush with large amounts of water for 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation occurs. Wash clothing before re-use.

IF INHALED: Remove to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult.

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 - Do not contaminate food or feed.

ENVIRONMENTAL HAZARDS: Do not contaminate water to be used on susceptible crops and ornamentals, or to be used for domestic purposes. This product is toxic to shrimp. Keep out of tidal marshes and estuaries. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

IN CASE OF EMERGENCY: Immediately call (24 hours) (800) 424-9300 Chemtrec, or (203) 226-6602 Stauffer Chemical Company.

GENERAL USE PRECAUTIONS

Read all label directions before using.

EPTAM 7-E should be used only for recommended purposes and recommended rates. DO NOT OVERDOSE.

EPTAM 7-E is recommended for use on mineral soils only (soils containing less than 10% organic matter).

Keep container tightly closed when not in use. Do not store near seeds or fertilizers. Store out of reach of children, pets and domestic animals.

Rinse spray equipment and empty container.

Apply this product only as specified on this label.

SPECIAL PRECAUTIONS FOR CROP USES

For incorporated applications, use equipment which has been proven to incorporate thoroughly to the recommended depth.

In irrigated areas, do not apply EPTAM 7-E prior to pre-irrigation.

Tank-mix this product with fungicides, insecticides or herbicides only as recommended.

When properly applied and weather conditions exist for normal plant growth through the season, EPTAM 7-E will not harm the treated crop nor should harmful soil residues remain beyond harvest. However, during germination and early growth, extended periods of unusually cold and wet or hot and dry weather, insect, nematode, or plant disease attack, carry-over soil residues of certain persistent herbicides, 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. Also some of these abnormal conditions may weaken established crops: alfalfa, almonds, etc. EPTAM 7-E used under these abnormal conditions could result in crop injury.

SPECIAL PRECAUTIONS FOR ORNAMENTAL USES

EPTAM 7-E must be thoroughly mixed into the soil for all ornamental uses.

EPTAM 7-E may cause injury to ornamentals under certain soil and climatic conditions or if directions are not followed.

WEEDS CONTROLLED

EPTAM 7-E will not control established weeds.

ANNUAL GRASSES:

Annual Bluegrass	(<u>Poa annua</u>)
Annual Ryegrass	
(Italian Ryegrass)	(<u>Lolium multiflorum</u>)
Barnyardgrass (Watergrass)	
Junglerice)	(<u>Echinochloa spp.</u>)
Bermudagrass Seedlings	(<u>Cynodon dactylon</u>)
Crabgrass	(<u>Digitaria spp.</u>)
Giant Foxtail	(<u>Setaria faberii</u>)
Goosegrass	(<u>Eleusine indica</u>)
Green Foxtail	(<u>Setaria viridis</u>)
Johnsongrass Seedlings	(<u>Sorghum halepense</u>)
Lovegrass (Stinkgrass)	(<u>Eragrostis cilianensis</u>)
Panicum, Fall	(<u>Panicum dichotomiflorum</u>)
*Panicum, Texas	(<u>Panicum texanum</u>)
Rescuegrass	(<u>Bromus willdenowii</u>)
Sandbur, Field	(<u>Chenchrus pauciflorus</u>)
Wild Cane (Shattercane)	(<u>Sorghum bicolor</u>)
Signalgrass	(<u>Brachiaria spp.</u>)
Volunteer grains	
(Barley, Oats, Wheat)	
Wild Oats	(<u>Avena fatua</u>)
*Witchgrass	(<u>Panicum capillare</u>)
Yellow Foxtail	(<u>Setaria glauca</u>)

*May not be controlled at less than 3-1/2 pints of EPTAM 7-E per acre.

ANNUAL BROADLEAF WEEDS:

Annual Morningglory	(<u>Ipomoea purpurea</u>)
Black Nightshade	(<u>Solanum nigrum</u>)
Carpetweed	(<u>Mollugo verticillata</u>)
Chickweed, Common	(<u>Stellaria media</u>)
Corn Spurry	(<u>Spergula arvensis</u>)
Deadnettle (Henbit)	(<u>Lamium amplexicaule</u>)
Fiddleneck	(<u>Amsinckia spp.</u>)
Florida Purslane	(<u>Richardia scabra</u>)
Hairy Nightshade	(<u>Solanum villosum</u>)
*Lambsquarters, Common	(<u>Chenopodium album</u>)
Nettleleaf Goosefoot	(<u>Chenopodium murale</u>)
Purslane, Common	(<u>Portulaca oleracea</u>)
Prostrate Pigweed	(<u>Amaranthus Graecizans</u>)
*Prickly Sida	(<u>Sida spinosa</u>)
*Redroot Pigweed	
(Common Pigweed)	(<u>Amaranthus retroflexus</u>)
Shepherdspurse	(<u>Capsella bursa-pastoris</u>)
*Sicklepod	(<u>Cassia obtusifolia</u>)
Tumble Pigweed	(<u>Amaranthus albus</u>)

The annual broadleaf weeds listed above will be controlled only if treatment is made when conditions are favorable for weed germination and growth. Broadleaf weeds may only be suppressed at less than 3-1/2 pints EPTAM 7-E per acre in heavier soils or under very cold soil conditions.

*May not be controlled at less than 3-1/2 pints of EPTAM 7-E.

PERENNIAL WEEDS:

Bermudagrass	(<u>Cynodon dactylon</u>)
*Purple Nutsedge (Nutgrass)	(<u>Cyperus rotundus</u>)
Quackgrass (Couchgrass, Quitchgrass)	(<u>Agropyron repens</u>)
*Yellow Nutsedge (Nutgrass)	(<u>Cyperus esculentus</u>)
**Mugwort (Chrysanthemuweed)	(<u>Artemisia vulgaris</u>)

*May not be controlled at less than 3-1/2 pints of EPTAM 7-E per acre.

**Controlled by high EPTAM rates recommended for use on certain ornamentals only. See ornamental recommendations for specific uses.

Perennial weeds must be turned under and chopped up thoroughly prior to treatment. The underground rhizomes of quackgrass and the rhizomes and stolons of bermudagrass must be cut up thoroughly so that four or less nodes remain on a strand. For the suppression or control of quackgrass and bermudagrass the disc must be set to cut 6 inches deep. Use 4-1/2 to 7 pints EPTAM 7-E for quackgrass and 3-1/2 to 7 pints for bermudagrass. The EPTAM 7-E should be incorporated by discing or applied in the irrigation water after the rhizomes and stolons have been cut up. Consult recommendations for crops on which these higher rates may be used. Nutsedge may not be controlled by water-run applications in heavier soils.

TANK MIX COMBINATIONS

For broader spectrum weed control and increased control of certain broadleaf weeds EPTAM 7-E may be tank mixed with the following herbicides. On green beans, EPTAM 7-E may be tank mixed with Tolban*. On dry beans, EPTAM 7-E may be tank mixed with Treflan**, Tolban* or with a combination of Treflan** and Amiben++. On Irish potatoes, EPTAM 7-E may be tank mixed with metribuzin (Lexone+ or Sencor†). Consult supplemental literature for exact rates and application directions.

- * Tolban Registered Trademark of Ciba Geigy Corp.
- **Treflan Registered Trademark of Elanco Products Incorporated.
- + Lexone Registered Trademark of DuPont Company.
- † Sencor Registered Trademark of Mobay Chemical Corp.
- ++Amiben Registered Trademark of Union Carbide Agricultural

DIRECTIONS FOR USE - CROP SECTION

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

EPTAM 7-E is a selective herbicide which for most uses must be mixed (incorporated), or injected subsurface into the soil, or applied in the irrigation water for control of weeds listed on this label. EPTAM 7-E control weeds by interfering with normal germination and seedling development. It does not control established weeds.

APPLICATION DIRECTIONS:

Pour the recommended amount of EPTAM 7-E into the spray tank during the filling operations. Apply in 10 to 50 gallons of water per acre using a properly calibrated, low-pressure sprayer having good agitation. The soil should be well worked and dry enough to permit good soil mixing (incorporation).

EPTAM 7-E may be combined with solution, slurry or suspension fertilizers. However, physical compatibility with these fluid fertilizers must be determined before combining in the spray tank. See Appendix 1 for special direction regarding these combinations. Even though found to be compatible, constant agitation is necessary to keep the EPTAM 7-E uniformly mixed with the fluid fertilizer.

For all band applications, reduce dosage proportionately depending upon row spacing and band width to be treated.

IMPREGNATION ON DRY FERTILIZER:

EPTAM 7-E may be impregnated on dry fertilizer for use on registered crops. However, uniform distribution of the EPTAM 7-E on fertilizer particles and uniform application are necessary to assure good results. See special instructions elsewhere on this label giving directions for impregnation and use.

INCORPORATION DIRECTIONS:

EPTAM 7-E must be incorporated into the soil immediately to prevent loss of the herbicide. Whenever possible, application and incorporation should be done in the same operation.

SOIL MIXING (INCORPORATION) BEFORE PLANTING: The following equipment commonly is used for soil mixing (incorporation) before planting:

- Power Driven Cultivation Equipment (recommended on all soil types) set to cut to a depth of 2 to 3 inches.
- Tandem Discs (recommended on all soil types) set to cut to a depth of 4 to 6 inches, operated at 4 to 6 mph followed by a spiked-tooth harrow or some other leveling device which extends beyond the ends of the discs. For more thorough mixing (for perennial grasses and in heavier soils) disc in two different directions (cross disc).
- Field Cultivators (recommended for spring application on coarse textured soils, and for fall application on all soils. Use only on soils in good tilth). Use 3 to 4 rows of sweeps, spaced at 7 inch or less intervals and staggered so that no soil is left unturned, followed by a spiked-tooth harrow pulled behind the cultivator. Do not use chisel plows to incorporate. Set the cultivator to cut 4 inches deep, operated at 5 mph or more. Run the equipment over the field twice, the second run at an angle to the first.

- Rotary Ground Driven or Spring-Tooth Cultivators (recommended on coarse textured soils in good tilth only). Set to penetrate to a depth of 4 to 6 inches and operated at 5 to 8 mph in two different directions.

INCORPORATION AT OR AFTER PLANTING: Use power driven cultivation equipment set to cut to a depth of 2 to 3 inches OR on coarse textured 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 incorporating after planting, care must be taken not to disturb the crop seed or seedling.

SUBSURFACE APPLICATION -
AT PLANTING OR POST EMERGENCE

Apply EPTAM 7-E in 10 or more gallons of water per acre.

Special equipment designed for subsurface application MUST be used. Injector and sweep units must be rigidly mounted on the planter or cultivation unit. When using sweeps at planting they must be mounted ahead of the planters.

SOIL INJECTION - Injector shanks must be spaced 2-1/2 to 3 inches apart and mounted in staggered positions to avoid trash buildup. Set shanks to inject EPTAM 7-E 2 to 3 inches below the soil surface. The width of the band in which weed control is desired will determine the number and spacing of injector shanks required per row. (Example: Four injector shanks spaced 3 inches apart give a 12-inch band). A broadcast application can be made by increasing the number of shanks. The two shanks adjacent to the drill row must be 1-1/4 to 1-1/2 inches on either side of it, EXCEPT IN COTTON WHERE THE DISTANCE MUST BE 4 INCHES ON EITHER SIDE OF THE DRILL ROW, AND SUGAR BEETS WHERE THE DISTANCE MUST BE 2-3/4 INCHES ON EITHER SIDE OF THE DRILL ROW.

COVERED SWEEPS - Set the sweeps to run below the soil surface deep enough to cover the EPTAM 7-E with 2 to 3 inches of soil. Calibrate by measuring the spray band width at the back of the sweep, not the sweep width. For broadcast applications stagger sweeps on double tool bar so they overlap sufficiently to allow spray bands to meet.

NOTE: When applying with either injectors or sweeps, EPTAM 7-E must be applied deep enough to allow 2 to 3 inches of soil to remain over the treatment after the planting operations.

PLANTING DIRECTIONS

For pre-plant applications, seeding should be done as soon as possible after treatment to obtain a maximum period of weed control.

IRRIGATION APPLICATION -
POST-PLANTING AND ESTABLISHED CROPS

Meter EPTAM 7-E into the irrigation water using a metering device

that will introduce a constant flow into the water. For flood, furrow, or sprinkler irrigation meter the EPTAM 7-E into the water during the entire period OR, for sprinkler irrigation, the EPTAM 7-E may be metered into sufficient water to penetrate to a depth of 3 to 4 inches. Time this EPTAM 7-E application to insure that proper penetration of the herbicide corresponds with the end of the irrigation period. Flush the lines and then turn the water off promptly. Consult "RECOMMENDATIONS" on this label for proper timing of application for each crop for which irrigation application is recommended. A flow rate chart for water run applications will be found in Appendix 3 of this booklet.

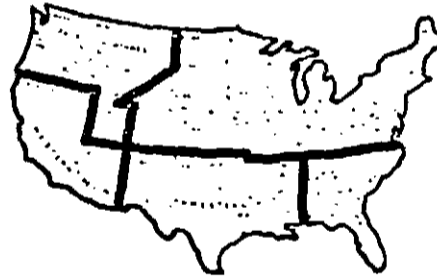
Tailwater (runoff water) from flood or furrow irrigation should be recirculated or used only on other crops which are registered for this type of application.

CULTURAL PRACTICES FOLLOWING APPLICATION

Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control. When cultivating for any reason, it should be shallow, i.e., no more than 1/2 the depth the herbicide was incorporated or injected. Pre-emergence or post-emergence herbicides may be necessary to control weeds resistant to EPTAM 7-E.

REGIONAL USE MAP

REGIONAL USE MAP



CROP RECOMMENDATIONS

All crop recommendations are given on a regional basis. There are five regions, as delineated on the U.S. map printed above. USE THE RECOMMENDATIONS IN YOUR REGION ONLY.

RATE CONVERSION TABLE

Dosage rates in this booklet are expressed as pints EPTAM 7-E per acre. The following table shows pints EPTAM 7-E per acre in the left column and the equivalent amount of active ingredient per acre in the center column.

<u>PINTS EPTAM 7-E PER ACRE</u>	<u>LB. ACTIVE INGREDIENT PER ACRE</u>	<u>ACRES TREATED BY ONE GALLON EPTAM 7-E</u>
1-1/4	1	7
1-3/4	1-1/2	4-2/3
2-1/4	2	3-1/2
3-1/2	3	2-1/3
4-1/2	4	1-3/4
5-1/4	4-1/2	1-1/2
5-3/4	5	1-2/5
7	6	1-1/6
8-1/2	7-1/2	1
17	15	1/2

RECOMMENDATIONSNorthern Region

These recommendations are given as the broadcast (overall) rates of EPTAM 7-E per acre. For band treatment, use proportionately less material per acre depending upon the width of the band to be treated and the crop row spacing. Do not use band application on rocky ground because thorough incorporation is not possible.

ALFALFA*, BIRDSFOOT TREFOIL, CLOVERS, LESPEDEZA: Do not use EPTAM 7-E if a grass or grain nurse crop is to be planted with the legume. Do not use on white dutch clover. Apply and incorporate 3-1/2 to 4-1/2 pints EPTAM 7-E per acre just before planting. Temporary crop stunting and sealing of the first leaves will occur if conditions for germination and growth are not optimum (e.g. lack of moisture), and will be relieved by irrigation or adequate rainfall.

OR ALFALFA* (FOR CONTROL OF ANNUAL GRASSES GROWING FROM SEED ONLY): Apply and incorporate 2-1/4 pints EPTAM 7-E per acre just before planting. Temporary crop stunting and sealing of the first leaves will occur if conditions for germination and growth are not optimum.

*Alfalfa is sensitive to soil residues of Atrazine. Do not use EPTAM on alfalfa if Atrazine was applied within the previous 12 months.

AND/OR ALFALFA (ESTABLISHED STANDS): Meter 2-1/4 to 3-1/2 pints EPTAM 7-E per acre into the irrigation water applied to established stands prior to weed emergence. Use the lower rate on very coarse textured soils. Do not apply within 14 days of harvesting or grazing alfalfa.

LADINO CLOVER (ESTABLISHED STANDS): Meter 2-1/4 to 3-1/2 pints EPTAM 7-E per acre into the irrigation water applied to established

stands prior to weed emergence. Use the lower rate on very coarse textured soils. Do not apply within 45 days of harvesting or grazing.

BEANS, GREEN OR DRY: Do not use EPTAM 7-E on Azuki beans, cow-peas (blackeye peas, blackeye beans), soybeans, lima beans, Mung beans, Garbanzo beans or other flat-podded beans except Romano. Under abnormal weather conditions, stunting may occur on Gratiot, Michilite, Sanilac, Seafarer, and Seaway varieties. Do not exceed 3-1/2 pints EPTAM 7-E per acre on small white beans or green beans grown on coarse textured soils.

Fall Application: (dry beans Minnesota, North Dakota only): Apply and incorporate in the late fall before the ground freezes. Use 4-1/2 pints EPTAM 7-E per acre on coarse textured soils and 5-1/4 pints EPTAM 7-E per acre on medium and fine textured soils.

Application At Planting: Apply and incorporate just before planting or meter into the irrigation water before or immediately after planting, 3-1/2 to 4-1/2 pints EPTAM 7-E per acre. Rotary hoe lightly during or shortly after emergence of the beans to break any crust which occurs.

OR

LAY-BY APPLICATION: At time of last cultivation for the season apply and incorporate 3-1/2 to 4-1/2 pints EPTAM 7-E per acre. Apply as a directed spray to the soil at the base of the plants before bean pods start to form. Do not feed or pasture vines to livestock within 45 days after application.

For control of smartweed and ragweed and for increased control of labeled broadleaf weeds, EPTAM 7-E may be followed by a pre-emergence application of Amiben 2E, 2-EC. Apply according to label directions and observe all use precautions. Slight phytotoxicity may be noted following sequential application.

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CASTOR BEANS: Apply and incorporate 2-1/4 pints EPTAM 7-E per acre immediately after planting. Use a rotary hoe for incorporation. Early cultivation after EPTAM 7-E application enhances weed control.

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CORN (Field, Silage, Sweet): Corn is susceptible to injury from EPTAM. Do not use on milo or sorghum. Do not use on corn seed stock. Plant corn to a maximum depth of 2 inches.

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Pre-plant Incorporation Application: (For use in fields heavily infested with Nutsedge, Johnsongrass Seedlings and Wildcane) - Apply and incorporate 3-1/2 to 4-1/2 pints EPTAM 7-E per acre ahead of corn planting. Use lower rate on coarse textured soils, and higher rate on medium and fine textured soils. Incorporate with a disc set at 5 to 6 inches. Cross disc to insure proper mixing. Delay corn planting 7 to 10 days after treatment. Cultivate or disc lightly just prior to seeding. One cultivation should be made after planting when corn plants are 3 to 6 inches tall.

Pre-Emergence Incorporation Application: (For use only in areas where Johnsongrass Seedlings or Wild Cane are problems) - Plant corn. Apply 2-1/4 to 3-1/2 pints EPTAM 7-E per acre over the planted crop. Use higher rate if broadleaf weeds are a problem. Use rotary hoe type equipment to incorporate EPTAM into the soil to a maximum depth of 1-1/2 inches.

FLAX:

Fall Application: (Minnesota, North Dakota): Apply and incorporate in the late fall before the ground freezes. Use 4-1/2 pints EPTAM 7-E per acre on coarse textured soils and 5-1/4 pints EPTAM 7-E per acre on medium and fine textured soils.

POTATOES (Irish): Do not exceed 7 pints EPTAM 7-E per acre per crop. The Superior variety potato is sensitive to EPTAM 7-E and under stress conditions, early season stunting may occur.

Fall Application: (Minnesota, North Dakota): Apply and incorporate in the late fall before the ground freezes. Use 5-1/4 pints EPTAM 7-E per acre on coarse textured soils and 7 pints EPTAM 7-E per acre on medium and fine textured soils.

PRE-PLANT

Incorporation: Apply and incorporate 3-1/2 to 7 pints EPTAM 7-E per acre. For quackgrass and nutgrass control use the higher rate.

OR

DRAG-OFF (COME UP, WEEDING TIME)

Incorporation: Apply and incorporate 3-1/2 to 7 pints EPTAM 7-E per acre. For nutgrass control use the higher rate. The field first must be "dragged-off", followed by EPTAM 7-E application and incorporation. Use spiked-tooth harrows or cultivation equipment for incorporation.

AND/OR LAY-BY

Incorporation: Apply and incorporate 3-1/2 to 4-1/2 pints

EPTAM 7-E per acre to clean cultivated soil after potato plants have emerged from the soil. Apply as directed spray to the soil. Do not apply within 45 days of harvest.

OR

Irrigation: Meter up to 3-1/2 pints EPTAM 7-E per acre into the irrigation water after clean cultivation. Do not apply within 45 days of harvest.

SAFFLOWER: Apply and incorporate 3-1/2 pints EPTAM 7-E per acre just before planting.

SUGAR BEETS:

Fall Application (Minnesota, North Dakota): Apply and incorporate in the late fall before the ground freezes. Use 4-1/2 pints EPTAM 7-E per acre on coarse textured soils and 5-1/4 pints EPTAM 7-E per acre on medium and fine textured soils.

Pre-Plant (Iowa, Eastern Nebraska, North Dakota, South Dakota, Minnesota, Michigan): Apply and incorporate 2-1/4 pints EPTAM 7-E per acre on coarse textured soils, or 3-1/2 pints per acre on medium and fine textured soils just before planting. Injury will occur if conditions for germination and growth are not optimum.

OR

POST EMERGENCE (AFTER THE FIRST TRUE LEAVES HAVE FORMED)

Irrigation Water: Meter 2-1/4 to 3-1/2 pints EPTAM 7-E per acre into the first irrigation applied after the last cultivation for the season.

Incorporation: Apply 3-1/2 pints EPTAM 7-E per acre after thinning and clean cultivation and incorporate to a depth of 2 to 3 inches. Treatment may be used following a fall application of EPTAM 7-E at recommended rates.

OR

Subsurface Injection: Apply 3-1/2 pints EPTAM 7-E per broadcast acre, or in band treatment (using 2 shanks per row 5-1/2 inches apart centered on the drill row with rows 22 inches apart) use 1-3/4 pints EPTAM 7-E per acre. Prior to application, a clean cultivation must be made for all existing weed growth to be destroyed.

SUNFLOWER (Minnesota, North Dakota, South Dakota): Apply and incorporate 2-1/2 to 3-1/2 pints EPTAM 7-E per acre just before planting. Use lower rates on lighter soil.

Fall Application: (Minnesota, North Dakota): Apply and incorporate in the late fall before the ground freezes. Use 4-1/2 pints EPTAM 7-E per acre on coarse textured soils and 5-1/4 pints EPTAM 7-E per acre on medium and fine textured soils.

RECOMMENDATIONS

Southeastern Region

These recommendations are given as the broadcast (overall) rate of EPTAM 7-E per acre. For band treatment, use proportionately less material per acre depending on the width of band to be treated and the crop row spacing. Do not use band application on rocky ground because thorough incorporation is not possible.

ALFALFA*, BIRDSFOOT TREFOIL, CLOVERS, LESPEDEZA: Do not use EPTAM 7-E if a grass or grain nurse crop is to be planted with the legume. Do not use on white dutch clover. Apply and incorporate 3-1/2 pints EPTAM 7-E per acre just before planting. (For fall seeded alfalfa in South Carolina only, apply and incorporate 1-3/4 pints EPTAM 7-E per acre just before planting.) Temporary crop stunting and sealing of the first leaves will occur if conditions for germination and growth are not optimum (e.g. lack of moisture), and will be relieved by irrigation or adequate rainfall.

*Alfalfa is sensitive to soil residues of Atrazine. Do not use EPTAM on alfalfa if Atrazine was applied within the previous 12 months.

BEANS, GREEN OR DRY: Do not use EPTAM 7-E on Adzuki beans, cowpeas (blackeye peas, blackeye beans), soybeans, lima beans, Mung beans, Garbanzo beans or other flat-podded beans except Romano. Under abnormal weather conditions stunting may occur on Gratiot, Michilite, Sanilac, Seafarer and Seaway varieties.

AT PLANTING

Pre-Plant (Flat-Planted): Use 3-1/2 pints EPTAM 7-E per acre incorporated just before planting on dry, snap and pole beans. Rotary hoe lightly during or shortly after emergence of the beans to break any crust which occurs.

OR

Subsurface Application: Apply 2-1/4 pints EPTAM 7-E per acre pre-plant or at planting. See DIRECTIONS FOR USE.

OR

Bed Treatments:

Method A -- Apply 3-1/2 pints EPTAM 7-E per acre broadcast and disc in 6 inches deep prior to forming beds and planting.

Method B -- Apply 1-3/4 pints EPTAM 7-E per acre broadcast (do not disc in) immediately ahead of bedding discs. Plant 7 days after treatment.

Method C -- Apply as a band treatment (do not disc in) immediately ahead of bedding discs, or as a band treatment to partially formed beds or bed tops immediately in front of the re-bedding operation. Use a band rate equivalent to 2-1/4 pints per acre broadcast. Care should be taken not to fold in treatment.

Example: To apply EPTAM 7-E as an 18 inch band on 36-inch rows, use 1-1/4 pints per crop acre. Plant 7 days after application.

NOTE: With Methods B and C, if bed shapers (levelers) are used, the bedding up and shaping should be done so that 3 to 4 inches of soil remain over the EPTAM 7-E.

OR
LAY-BY

At the time of last cultivation apply and incorporate 3-1/2 pints EPTAM 7-E per acre. Apply as a directed spray to the soil at the base of the plants before bean pods start to form. Do not feed or pasture vines to livestock until 45 days after application.

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CORN (Field, Silage, Sweet): Corn is susceptible to injury from EPTAM. Do not use on milo or sorghum. Do not use on corn seed stock. Plant corn to a maximum depth of 2 inches.

Pre-Emergence Incorporation Application: (For use only in areas where Johnsongrass Seedlings and Wild Cane are problems). Plant corn. Apply 2-1/4 to 3-1/2 pints EPTAM 7-E per acre over the planted crop. Use higher rate if broadleaf weeds are a problem. Use rotary hoe type equipment to incorporate EPTAM into the soil to a maximum depth of 1-1/2 inches.

CITRUS NURSERY STOCK AND YOUNG FIELD PLANTINGS (NON-BEARING ORANGE AND GRAPEFRUIT GROVES): After tining out, apply 3-1/2 to 7 pints EPTAM 7-E per acre as a directed spray to the soil. Incorporate with cultivation equipment, i.e., tree hoes and rotary hoes.

CITRUS (ORANGES, TANGERINES, GRAPEFRUIT): AFTER CLEAN CULTIVATION OR PRIOR TO WEED EMERGENCE in bearing citrus, apply 3-1/2 pints EPTAM 7-E per acre by flood or furrow irrigation. Meter EPTAM 7-E into the water during the entire irrigation period. Do not apply within 15 days of harvest.

COTTON: NON-IRRIGATED AREAS ONLY --

Application After Stand is Established: Apply 2-1/4 pints EPTAM 7-E per broadcast acre. Use specially designed injector units or sweeps for application. If incorporated application is to be made, use power driven rotary tillers set to a depth of 2 to 3 inches. Apply after cotton has 2 to 4 leaves. Do not apply after first bolls open. DO NOT APPLY CLOSER THAN 4 INCHES EITHER SIDE OF THE COTTON DRILL.

NOTE: Tandem discs may be used for incorporation in the skips of skip row cotton.

Cotton is susceptible to injury from EPTAM 7-E. Follow directions for use carefully to avoid crop injury.

PINE SEEDLING NURSERIES (LOBLOLLY, SLASH, LONGLEAF, SHORTLEAF): Apply and incorporate 7 pints EPTAM 7-E per acre 14 days prior to seeding.

POTATOES (IRISH): Do not exceed 3-1/2 pints EPTAM 7-E per acre per crop.

CAUTION: In Florida on winter and early spring potatoes apply only after potatoes have emerged and true leaves have formed.

BEFORE OR AT PLANTING

Pre-Plant: Apply and incorporate 3-1/2 pints EPTAM 7-E per broadcast acre just before planting. For incorporated applications to beds, apply as a band application and incorporate with ground or power driven tillers.
Example: In 18-inch bands on 36-inch rows, use 1-3/4 pints per crop acre. See DIRECTIONS FOR USE: Incorporation.

OR

Before Planting and Before Bed Formation: Band application: Apply as a band, equivalent to 3-1/2 pints per acre broadcast basis. Cover with 3 to 4 inches of soil with bedding discs, middle busters or other suitable bed making equipment. Care should be taken not to fold in the band treatment.

OR

After Planting But Before Bed Formation: Apply 1-3/4 pints EPTAM 7-E per broadcast acre over planted crop and bed up immediately with bedding discs set to cover 3 to 4 inches of soil.

OR

After Planting and After Bed Formation: Apply EPTAM 7-E as a band at a rate equivalent to 3-1/2 pints per acre, broadcast basis. Re-bed immediately after application with bedding discs set to cover with 3 to 4 inches of soil. Care should be taken not to fold in the band treatment.

OR

After Planting and After Bed Formation: Apply 1-3/4 pints EPTAM 7-E per broadcast acre. Re-bed immediately after application with bedding discs set to cover with 3 to 4 inches of soil.

OR

DRAG-OFF (COME UP, WEEDING TIME)

Apply EPTAM 7-E as a band treatment after drag-off, at a rate equivalent to 3-1/2 pints per acre (broadcast basis) and cover with bedding discs set to cover with 3 to 4 inches of soil. Care should be taken not to fold in the band treatment.

OR

POST-EMERGENCE -- LAY-BY

Incorporation

Apply and incorporate EPTAM 7-E at a rate equivalent to 3-1/2 pints per acre (broadcast basis) after potato plants have emerged from the soil. Apply as a directed spray to the soil in bands on both sides of the row.

Immediately cover the EPTAM with 3 to 4 inches of soil by re-bedding with bedding discs. Care should be taken not to fold in the band treatment. Example: Apply 2-1/4 pints EPTAM 7-E per crop acre as a directed spray to the soil in 12-inch bands on both sides of 36-inch rows. Do not apply within 45 days of harvest.

OR

Irrigation

Meter 3-1/2 pints EPTAM 7-E per acre into the irrigation water after clean cultivation. Do not apply within 45 days of harvest.

RECOMMENDATIONS
Southwestern Region

These recommendations are given as the broadcast (overall) rate of EPTAM 7-E per acre. For band treatment, use proportionately less material per acre depending on the width of band to be treated and the crop row spacing. Do not use band application on rocky ground because thorough incorporation is not possible.

ALFALFA*, BIRDSFOOT TREFOIL, CLOVERS, LESPEDEZA: Do not use EPTAM 7-E if a grass or grain nurse crop is to be planted with the legume. Do not use on white dutch clover. Apply and incorporate 3-1/2 pints EPTAM 7-E per acre just before planting. Temporary crop stunting and sealing of the first leaves will occur if conditions for germination and growth are not optimum (e.g. lack of moisture), and will be relieved by irrigation or adequate rainfall.

*Alfalfa is sensitive to soil residues of Atrazine. Do not use EPTAM on alfalfa if Atrazine was applied within the previous 12 months.

AND/OR ALFALFA (ESTABLISHED STANDS): Meter 2-1/4 to 3-1/2 pints EPTAM 7-E per acre into the irrigation water applied to established stands prior to weed emergence. Use the lower rate on very coarse textured soils. Do not apply within 14 days of harvesting or grazing alfalfa.

LADINO CLOVER (ESTABLISHED STANDS): Meter 2-1/4 to 3-1/2 pints EPTAM 7-E per acre into the irrigation water applied to established stands prior to weed emergence. Use the lower rate on very coarse textured soils. Do not apply within 45 days of harvesting or grazing.

BEANS, GREEN OR DRY: Do not use EPTAM on Adzuki beans, cowpeas (blackeye peas, blackeye beans), soybeans, lima beans, Mung beans, Garbanzo beans or other flat-podded beans except Romano. Under abnormal weather conditions, stunting may occur on Gratiot, Michilite, Sanilac, Seafarer, and Seaway varieties.

BEFORE OR AT PLANTING

Pre-Plant (Flat-Planted): Apply and incorporate 3-1/2 pints EPTAM 7-E per acre just before planting. Rotary hoe lightly during or shortly after emergence of the beans to break any crust which occurs.

OR

Subsurface Application: Apply 3-1/2 pints EPTAM 7-E per acre pre-plant, or at planting. See DIRECTIONS FOR USE.

OR
LAY-BY

At the time of the last cultivation, apply and incorporate 3-1/2 pints EPTAM 7-E per acre, apply as a directed spray to the soil at the base of the plants before bean pods start to form. Do not feed or pasture vines to livestock until 45 days after application.

CITRUS NURSERY STOCK AND YOUNG FIELD PLANTINGS (NON-BEARING ORANGE AND GRAPEFRUIT GROVES): After lining out, apply 3-1/2 to 7 pints EPTAM 7-E per acre as a directed spray to the soil. Incorporate with cultivation equipment, i.e., tree hoes and rotary hoes.

CITRUS (ORANGES, TANGERINES, GRAPEFRUIT): AFTER CLEAN CULTIVATION OR PRIOR TO WEED EMERGENCE in bearing citrus, apply 3-1/2 pints EPTAM 7-E per acre by flood or furrow irrigation. Meter EPTAM 7-E into the water during the entire irrigation period. Do not apply within 15 days of harvest.

COTTON: NON-IRRIGATED AREAS ONLY --

Application After Stand Is Established: Apply 2-1/4 pints EPTAM 7-E per broadcast acre. Use specially designed injector units or sweeps for application. If incorporated application is to be made, use power driven rotary tillers set to a depth of 2 to 3 inches. Apply after cotton has 2 to 4 leaves. Do not apply after first bolls open. DO NOT APPLY CLOSER THAN 4 INCHES EITHER SIDE OF THE COTTON DRILL.

NOTE: Tandem discs may be used for incorporation in the skips of skip row cotton.

Cotton is susceptible to injury from EPTAM. Follow directions for use carefully to avoid crop injury.

PINE SEEDLING NURSERIES (LOBOLLY, SLASH, LONGLEAF, SHORTLEAF): Apply and incorporate 7 pints EPTAM 7-E per acre 14 days prior to seeding.

POTATOES (IRISH): Do not exceed 7 pints EPTAM 7-E per acre per crop.

Pre-Plant: Apply and incorporate 3-1/2 to 7 pints EPTAM 7-E per acre just before planting.

OR

DRAG-OFF (COME UP, WEEDING TIME)

Incorporation: Apply and incorporate 3-1/2 to 7 pints EPTAM 7-E per acre. For nutgrass control, use the higher rate. The field first must be "dragged-off", followed by EPTAM application and incorporation. Use spiked-tooth harrows or cultivation equipment for incorporation.

AND/OR LAY-BY

Incorporation: Apply and incorporate 3-1/2 to 7 pints EPTAM 7-E per acre after potato plants have emerged from the soil. Apply as a directed spray to the soil. Do not apply within 45 days before harvest.

OR

Irrigation: Meter up to 3-1/2 pints EPTAM 7-E per acre into the irrigation water after clean cultivation. Do not apply within 45 days of harvest.

SUGAR BEETS -- POST THINNING:

Irrigation Water: Meter 2-1/4 to 3-1/2 pints EPTAM 7-E per acre into the first irrigation applied after the last cultivation for the season.

OR

Incorporation: Apply and incorporate 2-1/4 pints EPTAM 7-E per acre after thinning and clean cultivation and incorporate to a depth of 2 to 3 inches.

SWEET POTATOES:

Pre-Plant: Apply and incorporate 2-1/4 pints EPTAM 7-E per acre on coarse textured soils or 3-1/2 pints per acre on medium and fine textured soils just before planting. Incorporate to maximum depth of 3 inches.

OR

Pre-Plant -- Bed-Over: Apply 1-3/4 pints EPTAM 7-E per acre on coarse textured soils or 2-1/4 pints per acre on medium and fine textured soils just before planting. Treat a band width equal to 1/3 of the total distance between rows.

Soil from areas adjacent to the band that is not treated is then placed on top of the treated band with bed shaping equipment forming the bed. Band depth in finished and planted bed should be 2 to 4 inches below the bed surface. Bed over immediately after application.

OR

Pre-Plant -- Bed Up: Apply 1-3/4 pints EPTAM 7-E per acre on coarse textured soils or 2-1/4 pints per acre on medium and fine textured soils just before planting. After pre-shaped beds have been dragged down, EPTAM 7-E is applied broadcast. Soil is then shaped into beds with bed shaping equipment so that the undisturbed EPTAM layer in the finished bed is 2 to 4 inches below the bed surface. Bed-up immediately after application.

OR

Post-Plant: Apply 8-1/2 pints EPTAM 7-E per acre immediately after planting or within 2 days after planting slips or vine cuttings. Apply to a dry soil surface and do not mix into the soil. If sweet potatoes are irrigated, EPTAM should be applied prior to irrigation. Apply as a solid overall spray.

RECOMMENDATIONS

Pacific Northwest Region

These recommendations are given as the broadcast (overall) rate of EPTAM 7-E per acre. For band treatment, use proportionately less material per acre depending on the width of band to be treated and the crop row spacing. Do not use band application on rocky ground because thorough incorporation is not possible.

ALFALFA*, BIRDSFOOT TREFOIL, CLOVERS, LESPEDEZA: Do not use EPTAM if grass or grain nurse crop is to be planted with the legume. Do not use on white dutch clover. Apply and incorporate 2-1/4 to 4-1/2 pints EPTAM 7-E per acre just before planting. (Use the lower rate on very coarse textured soils.) Temporary crop stunting and sealing of the first leaves will occur if conditions for germination and growth are not optimum (e.g. lack of moisture), and will be relieved by irrigation or adequate rainfall.

OR ALFALFA*: Meter 2-1/4 to 3-1/2 pints EPTAM 7-E per acre into the irrigation water that is applied immediately after planting. (Use the lower rate on very coarse textured soils.)

*Alfalfa is sensitive to soil residues of Atrazine. Do not use EPTAM on alfalfa if Atrazine was applied within the previous 12 months.

AND/OR ALFALFA (ESTABLISHED STANDS): Meter 2-1/4 to 3-1/2 pints EPTAM 7-E per acre into the irrigation water applied to established stands prior to weed emergence. Use the lower rate on very coarse textured soils. Do not apply within 14 days of harvesting or grazing alfalfa.

LADINO CLOVER (ESTABLISHED STANDS): Meter 2-1/4 to 3-1/2 pints EPTAM 7-E per acre into the irrigation water applied to established stands prior to weed emergence. Use the lower rate on very coarse textured soils. Do not apply within 45 days of harvesting or grazing.

BEANS, GREEN OR DRY: Do not use EPTAM on Adzuki beans cowpeas (blackeye peas, blackeye beans), soybeans, lima beans, Mung beans, Garbanzo beans or other flat-podded beans except Romano. Under abnormal weather conditions, stunting may occur on Gratiot, Michilite, Sanilac Seafarer and Seaway varieties.

Apply and incorporate 3-1/2 to 4-1/2 pints EPTAM 7-E per acre just before planting. Rotary hoe lightly during or shortly after emergence of the beans to break any crust which occurs.

OR

Subsurface Application: Apply 3-1/2 pints EPTAM 7-E per acre pre-plant, just before planting or at planting. See DIRECTIONS FOR USE.

OR

Lay-By Incorporation: At time of last cultivation for the season, apply and incorporate 3-1/2 to 4-1/2 pints EPTAM 7-E per acre for grass and broadleaf control. Apply as a directed spray to the soil at the base of the plants before bean pods start to form. Do not feed or pasture vines to livestock until 45 days after application.

OR

Lay-By Subsurface: Prior to application, a clean cultivation must be made for all existing weed growth to be destroyed. Apply 3-1/2 pints EPTAM 7-E per broadcast acre or in a band treatment (using 2 shanks per row 5-1/2 inches apart, centered on the drill row with rows 38 inches apart) use 1-3/4 pints per acre. See DIRECTIONS FOR USE.

NO ON
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(A-5
thru
A-7
LABEL)

CORN (Field, Sweet and Silage): Corn is susceptible to injury from EPTAM. Do not use EPTAM on milo or sorghum. Do not use on corn seed stock. Plant corn to a maximum depth of 2 inches.

Pre-Plant Incorporation Application: Apply and incorporate 2-1/4 pints EPTAM 7-E per acre just before planting.

OR

In Fields Heavily Infested With Nutsedge, apply and incorporate 3-1/2 pints EPTAM 7-E per acre ahead of corn planting. Incorporate with a disc set at 5 to 6 inches. Cross-disc to insure proper mixing. Delay corn planting 7 to 10 days after treatment. Cultivate or disc lightly just prior to seeding. One cultivation should be made after planting when corn plants are 3 to 6 inches.

PEAS, GREEN PROCESSING (WESTERN WASHINGTON ONLY): Apply and incorporate 2-1/4 pints EPTAM 7-E per acre just before planting. Early stunting of crop may occur.

POTATOES (IRISH): Do not exceed 14 pints EPTAM 7-E per acre per crop.

Pre-Plant: Apply and incorporate just before planting 3-1/2 pints EPTAM 7-E per acre; 4-1/2 pints per acre for quackgrass control.

Lay-By: Apply and incorporate 3-1/2 pints EPTAM 7-E per acre after potato plants have emerged from the soil. Apply as a directed spray to the soil. Do not apply within 45 days of harvest.

Irrigation: Meter 3-1/2 pints EPTAM 7-E per acre into the irrigation water after clean cultivation. Do not apply within 45 days of harvest.

SAFFLOWER: Apply and incorporate 3-1/2 pints EPTAM 7-E per acre per crop.

SUGAR BEETS: Post Emergence. (after the first true leaves have formed). Do not exceed 3-1/2 pints EPTAM 7-E per acre per crop except for irrigation applications where 2 applications of 3-1/2 pints may be made.

Incorporation: Apply 3-1/2 pints EPTAM 7-E per acre after thinning and clean cultivation and incorporate to a depth of 2 to 3 inches.

OR

Irrigation Water: Meter 2-1/4 to 3-1/2 pints EPTAM 7-E per acre into the irrigation water after clean cultivation. Do not exceed 7 total pints EPTAM 7-E per acre per crop. Do not apply within 49 days of harvest.

OR

Subsurface Injection: Apply 3-1/2 pints EPTAM 7-E per broadcast acre, or in band treatment (using 2 shanks per row 5-1/2 inches apart, centered on the drill row with rows 22 inches apart) use 1-3/4 pints EPTAM 7-E per acre. Prior to application, a clean cultivation must be made for all existing weed growth to be destroyed.

TABLE BEETS: Apply and incorporate 2-1/4 pints EPTAM 7-E per acre just before planting. (Under normal use table beets are susceptible to injury from EPTAM 7-E and when EPTAM 7-E is used the seeding rate should be increased 10 per cent.)

WALNUTS: After clean cultivation or prior to weed emergence on well established trees, meter 3-1/2 pints EPTAM 7-E per acre into the irrigation water during the entire irrigation period.

RECOMMENDATIONS

Western Region

These recommendations are given as the broadcast (overall) rate of EPTAM 7-E per acre. For band treatment, use proportionately less material per acre depending on the width of band to be treated and the crop row spacing. Do not use band application on rocky ground because thorough incorporation is not possible.

ALFALFA*, BIRDSFOOT TREFOIL, CLOVERS, LESPEDEZA: Do not use EPTAM 7-E if a grass or grain nurse crop is to be planted with the legume. Do not use on white dutch clover. Apply and incorporate 2-1/4 to 4-1/2 pints EPTAM 7-E per acre just before planting. (Use the lower rate on very coarse textured soils.) Temporary crop stunting and sealing of the first leaves will occur if conditions for germination and growth are not optimum (e.g. lack of moisture), and will be relieved by irrigation or adequate rainfall.

OR ALFALFA*: Meter 2-1/4 to 3-1/2 pints EPTAM 7-E per acre into the irrigation water that is applied immediately after planting. (Use the lower rate on very coarse textured soils.)

Do not use Eptam 7-E pre-emergence on rill irrigated (corrugated) alfalfa.

*Alfalfa is sensitive to soil residues of Atrazine. Do not use EPTAM 7-E on alfalfa if Atrazine was applied within the previous 12 months.

AND/OR ALFALFA (ESTABLISHED STANDS): Meter 2-1/4 to 3-1/2 pints EPTAM 7-E per acre into the irrigation water applied to established stands prior to weed emergence. Use the lower rate on very coarse textured soils. Limit use to one application per cutting. Up to 14 pints EPTAM 7-E per acre per year may be used if applied into the irrigation water. Do not apply within 14 days of harvesting or grazing alfalfa.

LADINO CLOVER (ESTABLISHED STANDS): Meter 2-1/4 to 3-1/2 pints EPTAM 7-E per acre into the irrigation water applied to established stands prior to weed emergence. Use the lower rate on very coarse textured soils. Do not apply within 45 days of harvesting or grazing.

ALMONDS: After making the last cultivation for the season, meter 2-1/2 to 3-1/2 pints EPTAM 7-E per acre into the irrigation water. Do not make more than 2 applications per season or exceed 7 pints per acre. Do not apply within 14 days of harvest.

BEANS, GREEN OR DRY: Do not use EPTAM 7-E on Adzuki beans, cowpeas (blackeye peas, blackeye beans), soybeans, lima beans, Mung beans, Garbanzo beans or other flat-podded beans except Romano. Under abnormal weather conditions stunting may occur on Gratiot, Michilite, Sanilac Seafarer and Seaway varieties.

PRE-PLANT

Apply and incorporate 3-1/2 pints EPTAM 7-E per acre just before planting. Rotary hoe lightly during or shortly after emergence of the beans to break any crust which occurs.

OR

Subsurface Application: Apply 3-1/2 pints EPTAM 7-E per acre pre-plant, just before planting or at planting. See DIRECTIONS FOR USE.

OR

Lay-By Incorporation: At time of last cultivation for the season, apply and incorporate 3-1/2 to 4-1/2 pints EPTAM 7-E per acre for grass and broadleaf control. Apply as a directed spray to the soil at the base of the plants before beans pods start to form. Do not feed or pasture vines to livestock until 45 days after application.

OR

Lay-By Subsurface: Prior to application, a clean cultivation must be made for all existing weed growth to be destroyed. Apply 3-1/2 pints EPTAM 7-E per broadcast acre or in a band treatment (using 2 shanks per row 5-1/2 inches apart, centered on the drill row with rows 38 inches apart) use 1-3/4 pints per acre. See DIRECTIONS FOR USE.

CITRUS NURSERY STOCK AND YOUNG FIELD PLANTINGS (NON-BEARING ORANGE, GRAPEFRUIT AND LEMON GROVES): After lining out, apply 3-1/2 to 7 pints EPTAM 7-E per acre as a directed spray to the soil. Incorporate with cultivation equipment, i.e., tree hoes and rotary hoes.

CITRUS (ORANGES, TANGERINES, GRAPEFRUIT, AND LEMONS): After clean cultivation or prior to weed emergence in bearing citrus, apply 3-1/2 pints EPTAM 7-E per acre by flood or furrow irrigation. Do not exceed 10-1/2 pints total EPTAM 7-E per acre per year when multiple applications are made. Do not apply within 14 days of harvest.

POTATO (IRISH): Do not exceed 14 pints EPTAM 7-E per acre per crop.

Pre-Plant: Apply and incorporate just before planting 3-1/2 pints EPTAM 7-E per acre.

DRAG-OFF (COME UP, WEEDING TIME)

Incorporation: Apply and incorporate 3-1/2 pints EPTAM 7-E per acre. The field first must be "dragged off," followed by EPTAM application and incorporation. Use spiked-tooth harrows or cultivation equipment for incorporation.

AND/OR LAY-BY

Incorporation: Apply and incorporate 3-1/2 to 4-1/2 pints EPTAM 7-E per acre after potato plants have emerged from the soil. (Use lower rate on coarse textured soils). Apply as a direct spray to the soil. Do not apply within 30 days of harvest.

OR

Irrigation: Meter 3-1/2 pints EPTAM 7-E per acre into the irrigation water after clean cultivation. Do not apply within 30 days of harvest.

SAFFLOWER: Apply and incorporate 3-1/2 pints EPTAM 7-E per acre just before planting.

SUGAR BEETS: Post Emergence (after first true leaves have formed).

Incorporation: Apply 3-1/2 pints EPTAM 7-E per acre after thinning and clean cultivation and incorporate to a depth of 2 to 3 inches.

OR

Irrigation Water: Meter 2-1/4 to 3-1/2 pints EPTAM 7-E per acre into the first irrigation applied after the last cultivation for the season. Two applications of 2-1/4 pints each should be made when beets are to be carried in the ground longer than the normal growing season.

OR

Subsurface Injection: Apply 3-1/2 pints EPTAM 7-E per broadcast acre, or in band treatment (using 2 shanks per row 5-1/2 inches apart, centered on the drill row) use 1-3/4 pints EPTAM 7-E per acre. Prior to application, a clean cultivation must be made for all existing weed growth to be destroyed. See DIRECTIONS FOR USE.

TOMATOES: Lay-By Application

(Northern California Counties only, i.e., Butte, Colusa, Contra Costa, Glenn, Merced (North of Highway 100), Sacramento, San Joaquin, Solano, Stanislaus, Sutter, Yolo and Yuba).

For use on tomatoes at least 3-4 inches tall; on clay and clay loam soils only. DO NOT USE ON SANDY SOILS.

Apply EPTAM 7-E as a spray to the soil surface at a rate of 3-1/2 pints per treated acre. Incorporate immediately. For band applications reduce rates proportionately. DO NOT APPLY WITHIN 2 INCHES OF THE CROP ROW. Do not use where grain will be planted within 90 days. Do not irrigate for at least 5 days after application. Do not apply within 21 days of harvest.

WALNUTS: After clean cultivation or prior to weed emergence on well established trees, meter 3-1/2 pints EPTAM 7-E per acre into the irrigation water during the entire irrigation period.

DIRECTIONS FOR USE - ORNAMENTAL SECTION

Soil Preparation: The soil to be treated should be loose and free of clods. All weed growth should be removed or thoroughly worked into the soil before application.

Application: The recommended rate of EPTAM 7-E should be applied as uniformly as possible. Apply to well-worked soil that is dry enough to permit thorough mixing with incorporation equipment. When treating around established plants, direct spray to soil surface for maximum coverage, use one of the following appropriate means of application:

Low Pressure Herbicide Sprayer: For broadcast application use 10 to 50 gallons of water per acre. For band application (in front of power tiller), use less water depending upon row spacing and width of band desired. Check pressure and nozzles frequently to assure uniform application.

Hose Proportioner: Make sure proportioner is working properly. A more uniform application can be made by applying half the required amount of EPTAM over the area to be treated, then applying the remainder at right angles or crosswise.

Knapsack Sprayer: Apply as suggested for the hose proportioner.

Soil (mixing) Incorporation: Immediately after application, thoroughly mix EPTAM 7-E into the soil to a depth of 2 to 3 inches. Mix to a depth of 6 inches for nutgrass, quackgrass, bermudagrass and chrysanthemumweed (mugwort) control. Thorough soil mixing is necessary for good weed control.

Use the following equipment or other equipment which has proven satisfactory under local conditions.

Commercial Nursery:

Use nursery cultivator or rototillers for pre-plant broadcast (overall) applications, pre-plant band applications and post-plant applications.

Home Garden:

Pre-Plant Application - - Rototiller.

Post-Plant Application - - For annual weeds use hand rake or hoe or water in immediately after application to a depth of 2 to 3 inches. Where incorporation by hand raking is done, light watering after raking is recommended. For perennial weeds, incorporate to a depth of 6 inches with a rototiller.

EPTAM 7-E CAN BE USE ON THESE ORNAMENTALS

HERBACEOUS PLANTS

AGERATUM
ALYSSUM
AMARANTHUS
ASTERS
BALSAM
BEGONIA
CHRYSANTHEMUM
DAHLIA

DAYLILIES
DIANTHUS
MARIGOLD
NASTURTIUM
PANSY
PETUNIA
ZINNIA

GROUND COVERS

AJUGA
GAZANIA
HYPERICUM
ICE PLANT
IVY

PACHYSANDRA
PERIWINKLE (VINCA MINOR)
SEDUM
STRAWBERRY (ORNAMENTAL)

EVERGREEN AND DECIDUOUS TREES AND SHRUBS

AZALEA	LILAC
BERBERIS	LINDEN
DOGWOOD	MAGNOLIA
CAMELLIA	MAPLE
CHAMAECYPARIS	OAK
CITRUS (NON-BEARING)	PIERIS
DOGWOOD	PINE
EUONYMUS	PODOCARPUS
FIR	RHODODENDRON
HEMLOCK	SPRUCE
HOLLY (AMERICAN AND JAPANESE)	VIBURNUM
JUNIPER	YEW (TEXAS)
LEUCOTHOE	

NOTE: All flowering bulbs, salvia, phlox, snap-dragon and ornamental pepper are susceptible to injury from an application of EPTAM 7-E.

RECOMMENDATIONS

For annual weed control - - Use EPTAM 7-E at the rate of 5-3/4 pints in 10 to 50 gallons of water per acre (2 Fl. oz. per 1,000 square feet).

For quackgrass, nutgrass and bermudagrass control in trees and shrubs only - - existing stands of these perennial grasses must be turned under and chopped up thoroughly before treatment. Use EPTAM 7-E at the rate of 7 pints in 10 to 50 gallons of water per acre. (2.5 FL. oz. per 1,000 square feet).

For mugwort (Chrysanthemumweed) control in the following plants: Juniper, Japanese Holly, Ivy, Pachysandra, Petunias - - use 17 pints of EPTAM 7-E in 10 to 50 gallons of water per acre (6 FL. oz. per 1,000 square feet), mix thoroughly into the top 6 inches of soil. Apply 4 weeks before desired planting date.

When to use EPTAM 7-E

Herbaceous plants and ground covers: Apply 2 weeks after transplanting or after growth starts in the spring.

Trees and Shrubs: Apply 2 weeks before transplanting balled and canned stock (only) and anytime after transplanting. Around established plants apply after growth starts in the spring.

APPENDIX IEPTAM 7-E WITH FLUID FERTILIZERS

The following procedure is suggested for determining whether EPTAM 7-E may be combined with a specific fluid fertilizer for spray tank application.

Material Required:

1. EPTAM 7-E.
2. Fluid fertilizer to be used.
3. Adjuvant for fertilizer tank mix: Compex*, Sponto 168-D*, Unite*, 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
Unite, Hopkins Agricultural Chemical Co., Madison, Wisconsin.

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 next rate table).
3. Add the EPTAM 7-E to both jars (see next 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 ten 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 ten 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 combination should not be used.

NOTE 1: For some combinations, premixing wettable powders in a little water in a pail before adding them to the spray tank will improve the compatibility of the final mixtures with EPTAM 7-E. This technique can be tested in the small-scale jar test by premixing the wettable powder in one-eighth (1/8) cup of water prior to addition to the pint of fluid fertilizer.

RATE TABLE FOR EPTAM 7-E and Adjuvant**
WITH THE FLUID FERTILIZER

Gallons of fluid fertilizer to be applied per acre	mL. or tsp. of EPTAM 7-E* to be added to 1 pint of fertilizer	
	7-E	
	mL.	tsp.
10	7	1-1/3
15	4	3/4
20	3	2/3
25	3	2/3
30	2	1/2
40	2	1/2

* 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 EPTAM 7-E in 40 gallons fertilizer per acre, add 8 mL or 2 tsp. EPTAM 7-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 II

EPTAM 7-E IMPREGNATION ON DRY BULK FERTILIZERS

CAUTION: EPTAM 7-E alone or in combination with other herbicides must not be impregnated on ammonium nitrate, sodium nitrate or potassium nitrate. Such mixtures may cause explosion and fire.

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 EPTAM 7-E mixture.

EPTAM 7-E may be impregnated on many dry bulk fertilizers and applied and incorporated in the soil before planting for the control of grass and broadleaf weeds.

All EPTAM 7-E supplementary literature instructions and label recommendations regarding rates per acre, soil incorporation, application, cautions, general use precautions and other directions must be followed.

Test results have shown that EPTAM 7-E on bulk dry fertilizers gives weed control equal to EPTAM 7-E applied as a spray in water or liquid fertilizer. However, uniform impregnation of EPTAM 7-E on dry fertilizer particles and uniform application in the field are necessary to assure good results.

A minimum of 200 pounds and a maximum of 700 pounds of approved ingredients impregnated with EPTAM 7-E at the recommended rate must be applied per acre.

For impregnating EPTAM 7-E on dry fertilizers, 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 EPTAM 7-E should be sprayed uniformly onto the fertilizer using a fine spray pattern.

The physical properties of fertilizers vary, particularly in liquid absorptive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with EPTAM 7-E provides a satisfactory, dry mixture.

If the absorptive capacity is inadequate, use of a highly absorptive powder is required to provide a dry, free-flowing mixture.

Microcel E (Johns-Manville Products Corp.) is the recommended absorbent powder. It should be added separately and uniformly to the prepared EPTAM 7-E fertilizer mixture, in a quantity that is sufficient to provide a suitably free-flowing mixture. Generally less than 2% by weight of Microcel E is required.

The amount of EPTAM 7-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 EPTAM 7-E actually contained in the mixture applied to the soil represents the correct rate of use.

Bulk fertilizer impregnated with EPTAM 7E should be applied immediately, NOT STORED. All bulk containers must be tightly covered while the product is being transported and applied to reduce chances of EPTAM 7-E loss via volatilization.

EPTAM 7-E Physical Data

Specific Gravity (20/20°C): 0.954 (typical)
 Pounds/Gallon (20°C): 7.94 (typical)
 Flashpoint: 190°F (Tag, Closed Cup)
 Viscosity: Sprayable down to minus 20°F.

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
Triple super-phosphate	0	46	0
Urea	45	0	0
Ammonium phosphate-sulfate 11-48-0	16 11	20 48	0 0

NOTE: K-Mag has been shown to be compatible with EPTAM 7E and is approved for use.

RATE CHART FOR THE IMPREGNATION OF DRY BULK FERTILIZERS WITH EPTAM 7E

Fertilizer Rate Per Acre	EPTAM 7E Rate per acre		
	3-1/2 pts. per acre	4-1/2 pts per acre	7 pts. per acre
200 lbs.	17-1/2 qts./ton	22-1/4 qts./ton	35 qts./ton
250 lbs.	14 qts./ton	18 qts./ton	28 qts./ton
300 lbs.	11-2/3 qts./ton	15 qts./ton	23-1/3 qts./ton
350 lbs.	10 qts./ton	12-7/8 qts./ton	20 qts./ton
400 lbs.	8-3/4 qts./ton	11-1/4 qts./ton	17-1/5 qts./ton
450 lbs.	7-3/4 qts./ton	10 qts./ton	15-1/5 qts./ton
500 lbs.	7 qts./ton	9 qts./ton	14 qts./ton
550 lbs.	6-1/3 qts./ton	8-1/5 qts./ton	12-2/3 qts./ton
600 lbs.	5-7/8 qts./ton	7-1/2 qts./ton	11-3/4 qts./ton
650 lbs.	5-2/5 qts./ton	7 qts./ton	10-4/5 qts./ton
700 lbs.	5 qts./ton	6-2/5 qts./ton	10 qts./ton

APPENDIX III

Flow Rates For EPTAM 7-E
Using Various Tee Jet* Orifices (.4916)**

<u>Tee Jet Orifice</u>	<u>Ounces Per Minute</u>	<u>cc Per Minute</u>	<u>Gallons Per Hour</u>	<u>Pounds Per Hour</u>
.012	0.215	6.37	0.101	0.707
.014	0.286	8.45	0.134	0.938
.015	0.324	9.59	0.152	1.064
.016	0.375	11.10	0.176	1.232
.018	0.523	15.46	0.245	1.715
.020	0.610	18.04	0.286	2.002
.022	0.796	23.53	0.373	2.611
.024	0.896	26.50	0.420	2.940
.025	0.996	29.46	0.467	3.269
.026	1.111	32.87	0.521	3.647
.027	1.269	37.54	0.595	4.165
.029	1.284	37.98	0.602	4.214
.030	1.502	44.42	0.704	4.928
.032	1.641	48.52	0.769	5.383
.034	1.871	55.33	0.877	6.139
.035	2.091	61.83	0.980	6.860
.037	2.223	65.74	1.042	7.294
.039	2.539	75.08	1.190	8.330
.040	2.603	76.97	1.220	8.540
.041	2.807	83.03	1.316	9.212
.043	2.882	85.24	1.351	9.457
.045	3.334	98.61	1.563	10.941
.046	3.441	101.77	1.613	11.291
.047	3.678	108.77	1.724	12.068
.048	3.951	116.84	1.852	12.965
.051	4.102	121.32	1.923	13.461
.052	4.437	131.42	2.083	14.581
.054	4.849	143.41	2.273	15.911
.055	5.079	150.22	2.381	16.667
.057	5.333	157.73	2.500	17.500
.059	5.926	175.27	2.788	19.446
.063	6.272	185.49	2.940	20.580
.067	7.110	210.28	3.333	23.331
.070	8.205	242.65	3.846	26.922

* Registered trademark of Spraying Systems Co.

** Figures were taken at 70°F. and are approximate. Be sure occasionally to measure flow in the field to make certain you have the correct orifice and because rates vary with temperature. (Flow on an .037 orifice increases from 2.2 ounces at 70°F. to 2.4 ounces at 92°F.). Use a 300 mesh screen on orifice sizes below .014 and a 200 mesh screen on all others.

STORAGE AND DISPOSAL

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

STORAGE: Keep container tightly closed when not in use. Do not store near seeds, fertilizers or foodstuffs. Can be stored at temperatures as low as minus 50°F.

PESTICIDE DISPOSAL: Rinse spray equipment. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures.

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

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 on the label hereof.

INHERENT RISKS: 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.

(Stauffer Shield)

EPTAM® 7-E
(EPA Reg. No. 470-2154)

Selective Herbicide
Supplemental Labeling

EPTAM® 7-E/TREFLAN*/AMIBEN+ ON DRY FIELD BEANS

EPTAM herbicide may be applied as a preplant soil incorporated tank mixture with Amiben and Treflan herbicides, or a tank mix of Eptam and Treflan may be applied preplant soil incorporated and followed by a pre-emergence application of Amiben for weed control in dry beans in the Northern region of the U.S. When Amiben is applied pre-emergence, effectiveness depends on adequate rainfall after treatment. When applied according to directions, this three-way combination will give increased control of broadleaf weeds listed on the Eptam label as well as control of additional broadleaf weeds and labeled grasses.

WEEDS CONTROLLED

ANNUAL GRASSES:

Annual Bluegrass
Barnyardgrass (Watergrass, Junglerice)
Bromegrass
Crabgrass
Cheat
Foxtails (Giant, Green, Yellow)
Goosegrass
Johnsongrass seedlings
Lovegrass (Stinkgrass)
Sandbur, Field
Signalgrass, Brachiaria
Sprangletop
*Texas Panicum
Wild Cane
Wild Oats

*Suppression (partial control)

Stauffer Chemical Company
Westport, CT. 06831-0850

BROADLEAF WEEDS:

Annual Morningglory
 Bindweed, Field
 Carpetweed
 Chickweed
 Corn Spurry
 Florida Pusley
 Henbit
 Knotweed
 Kochia
 Lambsquarters
 Nettleleaf Goosefoot
 Nightshade (Black, Hairy)
 Pigweed
 Puncturevine
 Purslane
 Ragweed
 Russian Thistle
 Shepherdspurse
 Smartweed
 Stinging Nettle

PERENNIAL WEEDS:

- *Nutsedge (Purple, Yellow)
- *Suppression (partial control)

DIRECTIONS FOR USE

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

DRY FIELD BEANS

Make treatments according to the following table:

<u>Chemical</u>	<u>Timing</u>	<u>Amounts of Formulation Per Acre</u>
EPTAM 7-E	Preplant Soil Incorporated	2.5 pints
+		
Treflan* 4-E	Preplant Soil Incorporated	1 pint
+		
Amiben+	Preplant Soil Incorporated or Pre-emergence (surface)	6-8 pints

EPTAM/Amiben+/Treflan* or the EPTAM/Treflan tank mixes should be incorporated immediately after application with a field cultivator, tandem disc, mulch treader, rolling cultivator or a power driven tiller. Thoroughly mix into the top 2-3 inches by incorporating twice in different directions. Refer to complete product labels for further information on incorporation procedures.

Apply in ten or more gallons of water per acre. Prepare the spray mixture by first filling the spray tank 1/2 to 2/3 full of water. With agitator running, slowly add Amiben, followed by Eptam and Treflan. Do not mix the concentrate before adding to water. Fill tank with remaining required water.

If sufficient rain does not occur within five (5) days after pre-emergence application of Amiben, a light cultivation or incorporation with a rotary hoe or similar tool is recommended.

+Amiben[®] is the registered trademark of Union Carbide Agricultural Products Co.

*Treflan[®] is the registered trademark of Elanco Products Co.

GENERAL USE PRECAUTIONS

Before using the tank mix of EPTAM/Amiben/Treflan, read and observe the cautionary statements and all other information on the EPA registered EPTAM 7-E, Treflan 4-E and Amiben labels. This labeling must be in the possession of the user at time of application.

NOTICE - READ CAREFULLY

CONDITIONS OF SALE:

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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.

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.

RS-821008

Stauffer Chemical Company
Westport, CT 06881-0850

(Stauffer Shield)

EPTAM[®] 7-E
(EPA Reg. No. 476-2154)

Selective Herbicide

Supplemental Labeling

EPTAM/TOLBAN* Tank Mix For Beans and Sunflowers

A tank mix combination of EPTAM 7-E (7 pounds active ingredient per gallon) and TOLBAN 4-E (4 pounds active ingredient per gallon) can be used prior to planting for weed control in beans (green and dry) and sunflowers.

WEEDS CONTROLLED

ANNUAL GRASSES:

Annual Bluegrass
Annual Ryegrass
(Italian Ryegrass)
Barnyardgrass
(Watergrass,
Junglerice)
Bermudagrass
Seedlings
Crabgrass
Giant Foxtail
Goosegrass
Green Foxtail
Johnsongrass
Seedlings
Lovegrass
(Stinkgrass)
Panicum, Fall
Rescuegrass
Sandbur, Field
**Wild Cane
(Shattercane)
Signalgrass
Volunteer Grains
(Barley, Oats, Wheat)
Wild Oats
Yellow Foxtail

ANNUAL BROADLEAVES:

Annual Morningglory
Black Nightshade
Carpetweed
Chickweed, Common
Corn Spurry
Deadnettle (Henbit)
Fiddleneck
Florida Purslane
Hairy Nightshade
Lambsquarters, Common
Nettleleaf Goosefoot
Purslane, Common
Prostrate Pigweed
Redroot Pigweed
(Common Pigweed)
Shepherdspurse
Tumble Pigweed

PERENNIAL GRASSES:

**Purple Nutsedge-Nutgrass
**Yellow Nutsedge-Nutgrass

**See rate table.

APPLICATION DIRECTIONS

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

Read and follow all directions, use limitations, precautions and warnings that appear on the EPTAM 7-E and TOLBAN 4-E labels.

*TOLBAN is a registered Trademark of Ciba-Geigy Corp.

STAUFFER CHEMICAL COMPANY
WESTPORT, CT. 06881-0850

BEANS: Do not use EPTAM 7-E on Adzuki beans, cowpeas (blackeye beans), soybeans, lima beans, Mung beans, Garbanzo beans or other flat-podded beans except Romano. Under abnormal weather conditions, stunting may occur on Gratiot, Michilite, Sanilac, Seafarer, and Seaway varieties.

SUNFLOWERS: For use in the states of Minnesota, North Dakota and South Dakota.

Application rates (broadcast):

<u>SOIL TEXTURE</u>	<u>EPTAM 7-E</u>	<u>TOLBAN 4-E</u>
Coarse (light-sandy soils)	2-1/2 pts.	1 pt.
*Medium (silt loam and sandy clay soils)	2-1/2 pts.	1 pt.
Fine (heavy-clay soils)	3 pts.	1-1/2 pts.

*For nutgrass and wild cane control, use the high rate of 3 pints EPTAM 7-E on medium textured soils.

MIXING: Add the recommended rates of both EPTAM 7-E and TOLBAN 4-E to the spray tank during filling and mix thoroughly. Apply in 10 to 50 gallons of water per acre.

SPRAY EQUIPMENT: Use any properly calibrated, low pressure, boom type sprayer having good agitation. Check frequently during application to be sure nozzles are free from clogging and delivering a uniform spray pattern.

SOIL INCORPORATION

EPTAM 7-E and TOLBAN 4-E must be mixed (incorporated) into soil immediately after application. Whenever possible, application and incorporation should be done in the same operation if possible. This can be done by mounting the tank and boom right on the incorporation rig.

For thorough incorporation, use the following equipment.

Tandem Discs - set to cut to a depth of 4 to 6 inches, followed by a spike-tooth harrow or some other leveling device which extends beyond the ends of the discs. For more thorough mixing disc in two different directions (cross disc).

OR: Power-driven cultivation equipment set to cut to a depth of 2-3 inches.

PLANTING: Seed should be planted as soon as possible after treatment to obtain a maximum period of weed control.

GENERAL USE PRECAUTIONS

Before using EPTAM 7-E plus TOLBAN 4-E as a tank mix, read and observe the cautionary statements, and all other information appearing in both product labels.

NOTICE - READ CAREFULLYCONDITIONS 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:

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INHERENT RISKS:

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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.

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.

RS-821008

Stauffer Chemical Company
Westport, Ct. 06881-0850

EPTAM[®]
(EPA Reg. No. 476-2154)

Selective Herbicide

Supplemental Labeling

EPTAM 7-E/TREFLAN E.C.* TANK MIX

FOR WEED CONTROL IN BEANS (GREEN AND DRY), SUGAR BEETS AND SUNFLOWERS

A tank mix combination of EPTAM 7-E plus TREFLAN E.C. will give a broader spectrum of weed control than either product used separately.

CAUTION: Do not graze or feed forage from treated fields to livestock. Read both the EPTAM 7-E and TREFLAN E.C. labels carefully before using. Observe all cautions and limitations on labeling of both products.

Do not contaminate water by cleaning of equipment or disposal of wastes.

WEEDS CONTROLLED BY THE COMBINATION

<u>ANNUAL GRASSES</u>		<u>ANNUAL BROADLEAVES</u>	<u>PERENNIAL WEED</u>	
Crabgrass	Stinkgrass	Annual	Knotweed	Nutsedge**
Barnyardgrass	Bromegrass	Morningglory	Stinging	(Nutgrass)
(Watergrass)	Brachiaria	Pigweeds	Nettle	
Foxtails (including	Sandbur	(Spiny, Redroot)	Puncturevine	
giant foxtail)	Junglerice	Lambsquarters	Nettleleaf	
Johnsongrass	Annual	Carpetweed	Goosefoot	
(from seed)	Bluegrass	Russian Thistle	Chickweed	
Goosegrass	Sprangletop	Kochia	Corn Spurry	
Wild Cane	Cheat	Purslane	Henbit	
(Shattercane)	Wild Oat	Florida	Nightshade	
	Texas Panicum**	Purslane		

**May not be controlled at less than 3-1/2 pints per acre of EPTAM 7-E.

DIRECTIONS FOR USE

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

MIXING

Add the recommended rates of both EPTAM 7-E and TREFLAN E.C. to the spray tank during filling and mix thoroughly. Apply in 10 to 40 gallons of water per acre.

SPRAY EQUIPMENT

Use any properly calibrated low pressure boom type herbicide sprayer which will apply the material uniformly. Check calibration frequently during application and observe the nozzles to be sure they are delivering a uniform spray pattern.

*TREFLAN is the registered trademark of Elanco Products Incorporated

SOIL INCORPORATION

The EPTAM 7-E and TREFLAN E.C. combination must be incorporated (mixed) thoroughly into the top 2 to 3 inches of soil immediately after spraying. Spraying and incorporation should be accomplished in the same operation if possible. This can be done by mounting the tank and boom right on the incorporation rig.

Thorough incorporation can be achieved with any of the following equipment.

PREPLANT

Power-driven rotary cultivators - set to cut 2 to 3 inches deep. Double disc (or double disc with spike-tooth harrow in tandem) - set to cut 3 to 6 inches deep and operate in two directions (cross disc) at 4 to 6 mph.

IN ESTABLISHED ROW CROPS

Power-driven rotary cultivators - set to cut 2 to 3 inches deep. Rolling cultivators - set to cut 2 to 4 inches and operated 2 times at 6 to 8 mph. Use on coarse and medium textured soils only.

Adjust equipment to throw treated soil toward the crop. Avoid mechanically damaging the crop.

Shallow incorporation with implements set to cut less than 2 inches may result in erratic weed control.

RECOMMENDATIONSBEANS, GREEN AND DRY:

The combination of EPTAM 7-E and TREFLAN E.C. should not be used on Adzuki beans, cowpeas (black-eyed peas, black-eyed beans) soybeans, lima beans, Mung beans, Garbanzo beans or other flat-podded beans, except Romano.

Make application before planting, using the rates listed in the following table.

APPLICATION RATES PER BROADCAST ACRE

<u>EPTAM 7-E</u>	<u>SOIL TYPE</u>	<u>TREFLAN E.C.</u>	
		<u>ORGANIC MATTER CONTENT</u>	<u>RATE</u>
2-1/2 to 3-1/2 pints †	Coarse (sand)	0-2%	1 Pint
	Coarse (sand)	2-5%	1-1-1/2 Pints
	Medium (loam)	0-5%	1-1/2 Pints
	Fine (clay)	0-5%	1-1/2 Pints
	All soil types	5.1-10%	1-1/2 Pints

† Use the higher rate for nutsedge control

PLANTING INSTRUCTIONS

Dry beans - Plant within 48 hours after incorporation. In the lighter soils under sprinkler irrigation, when it is necessary to irrigate beans after planting and before emergence, sufficient water should be applied to wet the soil well below the depth of planted seed.

Green beans - Plant soon after incorporation to provide the maximum period of weed control.

SUNFLOWERS (Minnesota, North Dakota, South Dakota):

Apply and incorporate just before planting, using the rates listed below.

APPLICATION RATES PER BROADCAST ACRE

EPTAM 7-E		TREFLAN E.C. RATE			
SOIL TYPE	ORGANIC MATTER CONTENT	MINNESOTA, EASTERN DAKOTAS		WESTERN DAKOTAS	
2-1/4 pints	Coarse (sand) 0-2%	1	Pint	1	Pint
	Coarse (sand) 2-5%	1-1/2-2	Pints	1-1/2-2	Pints
	Medium (loam) 0-5%	1-1/2	Pints	1-1/4-1-1/2	Pints
	Fine (clay) 0-5%	2	Pints	1-1/2	Pints
	All soil types 5.1-10%	2	Pints	2	Pints

SUGAR BEETS (California):

Apply as a broadcast spray over the top when plants are 2 to 6 inches tall, using the rates listed below.

APPLICATION RATES PER BROADCAST ACRE

EPTAM 7-E	SOIL TYPE	TREFLAN E.C. RATE	
3-1/2 Pints	Coarse (sand)	1	Pint
	Medium (loam)	1-1/4-1-1/2	Pints
	Fine (clay)	1-1/2	Pints

Exposed beet roots should be covered with soil before application to reduce possibility of girdling. Set incorporation machinery to throw treated soil toward the plants in the row. Care should be taken that incorporation machinery does not damage the sugar beet taproot.

GENERAL USE PRECAUTIONS

Before using EPTAM 7-E plus TREFLAN E.C. as a tank mix, read and observe the cautionary statements, and all other information appearing in both product labels.

NOTICE - READ CAREFULLYCONDITIONS OF SALE:

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INHERENT RISKS:

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LIMITATION OF LIABILITY:

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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.

RS-821008

Stauffer Chemical Company
Westport, Ct. 06881-0850

EPTAM
(EPA Reg. No. 476-2154)

Selective Herbicide

Supplemental Labeling

EPTAM 7-E/AMIBER TANK MIX

FOR WEED CONTROL IN SUNFLOWERS In the States of Minnesota,
North Dakota and South Dakota

A tank mix combination of EPTAM 7-E and AMIBER will give improved control of many of the broadleaf weeds listed on the EPTAM 7-E label. The combination will also control wild mustard and kochia.

CAUTION: Do not graze treated fields of sunflowers or use these plants as livestock feeds.

Do not contaminate water by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE

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

MIXING

Pour the recommended amount of EPTAM 7-E into the spray tank during the filling operation. Then add the recommended amount of AMIBER. Apply in 10 to 50 gallons of water per acre.

SPRAY EQUIPMENT

Use any properly calibrated low pressure boom type herbicide sprayer which will apply the material uniformly. Check calibration frequently during application and observe the nozzles to be sure they are delivering a uniform spray pattern.

SOIL INCORPORATION

The EPTAM 7-E and AMIBER combination must be incorporated (mixed) thoroughly into the top 2 to 3 inches of soil immediately after spraying. Spraying and incorporation should be accomplished in the same operation if possible. This can be done by mounting the tank and boom right on the incorporation rig.

Thorough incorporation can be achieved with any of the following equipment.

- Power Driven Cultivation Equipment (recommended on all soil types) set to cut to a depth of 2 to 3 inches.
- Tandem Discs (recommended on all soil types) set to cut to a depth of 4 to 6 inches, operated at 4 to 6 mph followed by a spiked-tooth harrow or some other leveling device which extends beyond the ends of the discs. For more thorough mixing in heavier soils, disc in two different directions (cross disc).

* Registered™ of Amchem Products Co.

- Field Cultivators (recommended on coarse textured soils. Use only on soils in good tilth). Use 3 to 4 rows of sweeps, spaced at 7 inch or less intervals and staggered so that no soil is left unturned, followed by a spiked-tooth harrow pulled behind the cultivator. Do not use chisels or points. Set the cultivator to cut 4 inches deep, operated at 5 mph or more. Run the equipment over the field twice, the second run at an angle to the first.
- Rotary Ground Driven or Spring-Tooth Cultivators (recommended on coarse textured soils in good tilth only). Set to penetrate to a depth of 4 to 6 inches and operated at 5 to 8 mph in two different directions.

RECOMMENDATIONS

Apply and incorporate just before planting, using the rates given below.

BROADCAST RATES PER ACRL

SOIL TEXTURE	EPTAM 7-E	AMIBEN
Coarse (sandy)	2-1/4 Pints	4 Pints
Medium (loams)*	2-1/4-3-1/2 Pints	4-8 Pints
Fine (clays)	3-1/2 Pints	8 Pints
All soil types with organic matter >3%	3-1/3 Pints	8 Pints
Peat or Muck	NOT RECOMMENDED	

* Use the higher rates with greater amounts of clay and organic matter.

GENERAL USE PRECAUTIONS

Before using EPTAM 7-E plus AMIBEN as a tank mix, read and observe the cautionary statements, and all other information appearing in both product labels.

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 conform 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 on the label hereof.

INHERENT RISKS:

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.

RS-821008

Stauffer Chemical Company
Westport, Ct. 06881-0850

EPTAM[®] 7E
SELECTIVE HERBICIDE
(EPA REG. NO. 476-2154)
SUPPLEMENTAL LABELING

EPTAM 7E AND METRIBUZIN TANK MIX
FOR CONTROL OF WEEDS IN IRISH POTATOES

A tank mix combination of Eptam 7E and Metribuzin (Sencor ^{**}4, Sencor 50W, Sencor Sprayule 75%, Lexone [†] 4, Lexone 50W or Lexone Dry Flowable 75%) can be applied to Irish potatoes in the Pacific Northwestern and Northern regions of the U.S. to give a broader spectrum of weed control than either product used separately.

CAUTION:

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

Before using Eptam 7E and Metribuzin (Sencor, Lexone) as a tank mix, read both the Eptam and Metribuzin labels carefully. Observe all cautions and limitations on labeling of both products.

Do not contaminate water by cleaning of equipment or disposal of wastes.

WEEDS CONTROLLED

Annual Grasses

Annual Bluegrass
Annual Ryegrass (Italian Ryegrass)
Barnyardgrass (Watergrass, Junglerice)
Bermudagrass seedlings
Crabgrass
Foxtail (Giant, Green, Yellow)
Goosegrass
Johnsongrass seedlings
Lovegrass (Stinkgrass)
Panicum, Fall
Panicum, Texas
Rescuegrass
Sandbur, Field
Signalgrass
Volunteer Grains (Barley, Oat, Wheat)
Wild Cane
Wild Oats
Witchgrass

Annual Broadleaf Weeds

Annual Morningglory
Carpetweed
Chickweed, Common
Cocklebur
Corn Spurry
Deadnettle (Henbit)
Fiddleneck
Florida Pusley
Jimsonweed
Lambsquarters, Common
Nettleleaf Goosefoot
Pennsylvania Smartweed
Prickly Sida
Prostrate Pigweed
Purslane, Common
Ragweed, Common
Redroot Pigweed
Shepherdspurse
Sickpod
Tumble Pigweed
Wild Mustard

**SENCOR is the TM of Metribuzin, manufactured by Mobay Chemical Corp.
[†] LEXONE is the TM of Metribuzin, manufactured by DuPont Company.

Perennial Grasses

Bermudagrass
Mugwort (Chrysanthemum weed)

DIRECTION FOR USE

MIXING: Add the recommended rates of Eptam 7E and Metribuzin (Sencor, Lexone) to the spray tank during the filling operation. Add Eptam last. Mix thoroughly. Apply in 20 to 30 gallons of water per acre.

SPRAY EQUIPMENT: Use any properly calibrated, low pressure, boom type herbicide sprayer which will apply the material uniformly. Check calibration frequently during application and observe to be sure that the nozzles are delivering a uniform spray pattern.

SOIL INCORPORATION: The Eptam 7E and Metribuzin combination must be incorporated (mixed) thoroughly into the top 2 to 3 inches of soil immediately after spraying. Spraying and incorporation should be accomplished in the same operation if possible. See the Eptam 7E label for complete incorporation directions.

SPRINKLER APPLICATION (Pacific Northwest only): Apply through irrigation sprinkler system after planting as a pre-emergence application according to the SENCOR or LEXONE labels for pre-emergence application and/or as early post emergence application until potatoes are 4 to 6 inches tall. Regulate post emergence dosage rates according to soil type on rate chart.

Pre-mix Metribuzin first with water in the holding tank at desired rate in 4 to 5 part water per 1 part chemical. Add Eptam 7-E last. Meter chemical - water mixture into sprinkling system at rate proportionate to acreage covered. For center pivot systems, apply 1/2 to 3/4 inch of water per acre. For solid set, wheel lines or hand lines, moisten soil surface lightly first, then apply chemical during first hour of irrigation set.

All irrigation systems for this purpose must have check valves and antisiphon device to prevent back-flow into water source or supply tank and must be equipped with a power interlock to insure simultaneous shut-off of water pumps and injector.

RECOMMENDATIONS:

Broadcast the combination of Eptam 7E and Metribuzin (Sencor Lexone) according to the following rates:

	Pints Eptam 7E	Pints Sencor 4 or Lexone 4 or Pounds Sencor 50 or Lexone 50	Pounds Sencor Sprayule 75% or Lexone Dry Flowable 75%
<u>COARSE SOILS</u>			
Sand			
Sandy loam	3 1/2	1/2	1/3
Loamy sand			
<u>FINE SOILS</u>			
Loam			
Silt loam	4 1/2	1/2 - 1	1/3 - 2/3
Sandy clay			
Clay loam			

GENERAL USE PRECAUTIONS

Before using EPTAM 7E plus METRIBUZIN as a tank mix, read and observe the cautionary statements, and all other information appearing in both product labels.

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LIMITATION OF LIABILITY:

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