

GENEP™ EPTC



SELECTIVE HERBICIDE

1725

EMULSIFIABLE CONCENTRATE

Active Ingredient:	
S-Ethyl Dipropylthiocarbamate	87.8%
Inert Ingredients:	12.2%
Total	<u>100.0%</u>

This product contains 7 lbs. active ingredient per gallon.

CAUTION

Keep out of Reach of Children

Net Contents 5 Gallons

HAZARD TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wash thoroughly after use.

PRACTICAL TREATMENT

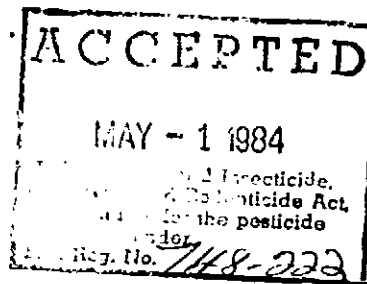
If in eyes or on skin, flush with plenty of water. If swallowed, call a physician or Poison Control Center. Drink 1 or 2 glasses of water and do not induce vomiting. Do not induce vomiting or give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS

This product is toxic to shrimp. Keep out of tidal marshes and estuaries. Do not apply directly to water. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treatment area. Do not contaminate water by cleaning of equipment or disposal of wastes.

Manufactured By:
PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272

EPA Reg. No. 748-222
EPA Est. No. 32761 MO-3



GENEP™ EPTC
HERBICIDE
DIRECTIONS FOR USE

748-222

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

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until sprays have dried.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

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. Pesticide, spray mixture, rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or Local procedures.

Triple rinse container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

GENERAL USE PRECAUTIONS

Read all label directions before using.

GENEP™ EPTC should be used only for recommended purposes and at recommended rates. DO NOT OVERDOSE.

GENEP is recommended for use on mineral soils only (soils containing less than 10% organic matter).

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 GENEP prior to pre-irrigation.

Do not tank mix this product with fungicides or with insecticides.

When properly applied and weather conditions exist for normal plant growth through the season, GENEP 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. GENEP used under these abnormal conditions could result in crop injury.

SPECIAL PRECAUTIONS FOR ORNAMENTAL USES

GENEP must be thoroughly mixed into the soil for all ornamental uses.

GENEP may cause injury to ornamentals under certain soil and climatic conditions or if directions are not followed.

WEEDS CONTROLLED

GENEP controls weeds by interfering with normal 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.

ANNUAL GRASSES:

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

Echinochloa species
Cynodon dactylon
Poa annua
Digitaria species
Setaria faberii
Setaria viridis
Setaria glauca
Eleusine indica
Sorghum halepense
Eragrostis cilianensis
Avena fatua
Panicum dichotomiflorum
Panicum texanum
Bromus willdenowii
Lolium multiflorum
Cenchrus pauciflorus
Sorghum bicolor
Brachiaria species

Panicum capillare

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

ANNUAL BROADLEAF WEEDS:

Carpetweed
Chickweed, Common
Deadnettle (Henbit)
Fiddleneck
Goosefoot, Nettleleaf
Lambsquarter, Common
Morningglory, Tall
Nightshade, Black
Nightshade, Hairy
Pigweed, Prostrate
Pigweed, Redroot
Pigweed, Tumble
Purslane, Common
Pusley, Florida

Mollugo verticillata
Stellaria media
Lamium amplexicaule
Amsinckia species
Chenopodium murale
Chenopodium album
Ipomoea purpurea
Solanum nigrum
Solanum villosum
Amaranthus blitoides
Amaranthus retroflexus
Amaranthus albus
Portulaca oleracea
Richardia scabra

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Shepherdspurse
Sicklepod
Sida, Prickly (Teaweed)
Spurry, Corn

Capsella bursa-pastoris
Cassia obtusifolia
Sida spinosa
Spargula arvensis

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 GENEP in heavier soils or under very cold soil conditions.

PERENNIAL WEEDS:

Bermudagrass
Mugwort (Chrysanthemumweed)
Nutsedge, Purple (Nutgrass)
Nutsedge, Yellow (Nutgrass)
Quackgrass (Couchgrass, Quitchgrass)

Cynodon dactylon
Artemisia vulgaris
Cyperus rotundus
Cyperus esculentus
Agropyron repens

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 GENEP for quackgrass and 3-1/2 to 7 pints for bermudagrass. The GENEP should be incorporated by discing or run 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.

DIRECTIONS FOR USE OF GENEP HERBICIDE ON CROPS

APPLICATION/INCORPORATION

Application Directions:

Pour the recommended amount of GENEP 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).

GENEP 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 directions regarding these combinations. Even though found to be compatible, constant agitation is necessary to keep the GENEP uniformly mixed with the fluid fertilizer.

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

Impregnation on Dry Bulk Fertilizers

Dry bulk fertilizers (except single and treble super phosphate fertilizers) may be impregnated or coated with GENEP. However, uniform distribution of GENEP on fertilizer particles and uniform application are necessary to assure good results. See Appendix 2 for information and directions regarding impregnation and use for these combinations.

Incorporation Directions:

GENEP must be incorporated into the soil immediately to prevent loss of herbicide.

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

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 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.

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 POSTEMERGENCE

Apply GENEP 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 GENEP to 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 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 GENEP 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 using either injectors or sweeps, GENEP 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 preplant applications, seeding should be done as soon as possible after treatment to obtain a maximum period of weed control.

IRRIGATION APPLICATION - POSTPLANTING AND ESTABLISHED CROPS

Meter GENEP 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 GENEP into the water during the entire period OR, for sprinkler irrigation, the GENEP may be metered into sufficient water to penetrate to a depth of 3 to 4 inches. Time this GENEP application to insure that penetration of the herbicide corresponds with the end of the irrigation period. Flush the lines and then return the water off promptly. Consult "RECOMMENDATIONS" on this label for proper timing or application for each crop for which irrigation 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. Do not contaminate water to be used on susceptible crops and ornamentals, or to be used for domestic purposes.

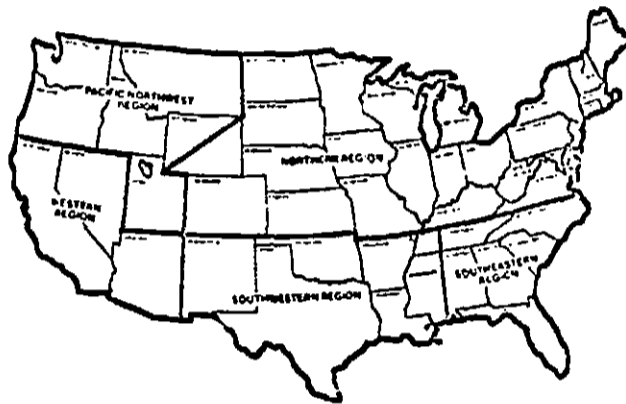
CULTURAL PRACTICES FOLLOWING APPLICATION

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. Preemergence or postemergence herbicides may be necessary to control weeds resistant to GENEP.

CROP RECOMMENDATIONS

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

REGIONAL USE MAP:



RATE CONVERSION TABLE

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

Pints GENEP 7E/ Acre	Approximate lb. Active Ingredient/ Acre	Approximate Acres Treated By One Gallon GENEP 7E
1-1/4	1	6-1/2
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

RECOMMENDATIONS - FIELD CROPS

Recommendations are given as the broadcast (overall) rates of GENEP 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.

BEST DOCUMENT AVAILABLE

Alfalfa*, Birdsfoot Trefoil, Clovers, Lespedeza

Do not use GENEP if a grass or grain nurse crop is to be planted with the legume. Do not use on white dutch clover. Temporary crop stunting and sealing of the first leaves will occur if conditions for germination and growth are not optimum and will be relieved by irrigation or adequate rainfall. See specific recommendation for appropriate region.

*Do not use GENEP on alfalfa if more than 1.2 pounds of actual atrazine was applied within the previous 12 months.

Alfalfa and Ladino Clover - Established Stands

All regions except Southeast. Meter 2-1/4 to 3-1/2 pints of GENEP 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 to alfalfa within 14 days of harvest or grazing.

Do not apply to Ladino clover within 45 days of harvest or grazing.

NORTHERN REGION

Alfalfa - Apply and incorporate 2-1/4 to 3-1/2 pints of GENEP per acre before planting. Low rate for annual grass control only.

Alfalfa, Birdsfoot Trefoil, Clovers, Lespedeza - Apply and incorporate 3-1/2 to 4-1/2 pints of GENEP per acre before planting. Use the lower rate on coarse textured soils.

SOUTHEASTERN REGION

Alfalfa, Birdsfoot Trefoil, Clovers, Lespedeza - Apply and incorporate 3-1/2 pints of GENEP per acre before planting.

Alfalfa (South Carolina Only) - Apply and incorporate 1-3/4 pints of GENEP per acre before planting.

SOUTHWESTERN REGION

Alfalfa, Birdsfoot Trefoil, Clovers, Lespedeza - Apply and incorporate 3-1/2 pints of GENEP per acre before planting.

PACIFIC NORTHWEST REGION

Alfalfa, Birdsfoot Trefoil, Clovers, Lespedeza - Apply and incorporate 2-1/4 to 4-1/2 pints of GENEP per acre before planting. Use the lower rate on very coarse textured soils.

Alfalfa only - Meter 2-1/4 to 3-1/2 pints of GENEP per acre into the irrigation water that is applied immediately after planting. Use the lower rate on coarse textured soils. SEE DIRECTIONS FOR USE.

WESTERN REGION

Alfalfa, Birdsfoot Trefoil, Clovers, Lespedeza - Apply and incorporate 2-1/4 to 4-1/2 pints of GENEP per acre before planting. Use the lower rate on very coarse textured soils.

Alfalfa Irrigated - Meter 2-1/4 to 3-1/2 pints of GENEP per acre into the irrigation water that is applied immediately after planting. Use the lower rate on coarse textured soils. SEE DIRECTIONS FOR USE.

Alfalfa - Limit use to one application per cutting and 7 pints of GENEP per acre per year. If applied by flood irrigation, up to 14 pints of GENEP per acre year can be used.

Beans, Green or Dry

Do not use GENEP on Adzuki beans, cowpeas (blackeye peas, blackeye beans), soybeans, lima beans, or other flat-podded beans except Romano. Under abnormal weather conditions, stunting may occur on Gratiot, Michilite, Sanilac, Seafarer, and Seaway varieties. See specific recommendation for appropriate regions.

Apply GENEP by the method and at the rate shown below.

NORTHERN REGION

Fall Application - (Dry beans Minnesota and North Dakota only) Apply and incorporate in the late fall before soil freezes. Use 4-1/2 pints of GENEP per acre on coarse textured soils and 5-1/4 pints on medium and fine textured soils.

At Planting - Apply and incorporate just before or immediately after planting or meter into the irrigation water before or immediately after planting. Use 3-1/2 to 4-1/2 pints of GENEP per acre. Use the lower rate on coarse textured soils.

Lay-By Application - At last cultivation apply and incorporate 3-1/2 to 4-1/2 pints of GENEP per acre. Apply as a directed spray to the base of the bean plants before the pods start to form. Use the lower rate on coarse textured soils. Do not feed or graze treated vines within 45 days of treatment.

SOUTHEASTERN REGION

At Planting - Apply and incorporate 3-1/2 pints of GENEP per acre just before planting.

Subsurface Application - Apply 2-1/4 pints of GENEP per acre preplant or at planting. SEE DIRECTIONS FOR USE.

Bed Treatments - Pre Planting

Apply 3-1/2 pints of GENEP per acre broadcast and disc in 6 inches deep before forming beds and planting.

Apply 1-3/4 pints of GENEP per acre broadcast (do not disc) immediately ahead of bedding disc. Plant 7 days after treatment.

Apply as a band treatment immediately ahead of bedding discs or to partially formed beds immediately in front of rebedding operation. Use a band rate equivalent to 2-1/4 pints of GENEP per acre broadcast. Treated band should be covered with 3 to 4 inches of untreated soil. Plant 7 days after treatment.

Lay-By Application - At last cultivation apply and incorporate 3-1/2 pints of GENEP per acre. Apply at a directed spray to the base of the bean plant before the pods start to form. Do not feed or graze vines within 45 days of treatment.

SOUTHWESTERN REGION

At Planting - Apply and incorporate 3-1/2 pints of GENEP per acre just before planting.

Subsurface Application - Apply 3-1/2 pints of GENEP per acre preplant or at planting. SEE DIRECTIONS FOR USE.

Lay-By Incorporated - At the last cultivation apply and incorporate 3-1/2 pints of GENEP per acre. Apply as a directed spray to the base of the bean plant before pods start to form. Do not feed or graze vines within 45 days of treatment.

PACIFIC NORTHWEST REGION

At Planting - Apply and incorporate 3-1/2 to 4-1/2 pints of GENEP per acre just before planting. Use the lower rate on coarse textured soils.

Subsurface Application - Apply 3-1/2 pints of GENEP per acre preplant or at planting. SEE DIRECTIONS FOR USE.

Lay-By Incorporated - At the last cultivation apply and incorporate 3-1/2 to 4-1/2 pints of GENEP per acre. Use the lower rate on coarse textured soils. Apply as a directed spray to the base of the bean plant before pods have started to form. Do not feed or graze vines within 45 days of treatment.

Lay-By Surface - At last cultivation apply 3-1/2 pints of GENEP per acre to clean weed free soil. SEE DIRECTIONS FOR USE. Do not feed or graze vines within 45 days of application.

WESTERN REGION

At Planting - Apply and incorporate 3-1/2 pints of GENEP per acre preplant or at planting. SEE DIRECTIONS FOR USE.

Subsurface Application - Apply 3-1/2 pints of GENEP per acre pre-plant or at planting. SEE DIRECTIONS FOR USE.

Lay-By Incorporated - At the last cultivation apply and incorporate 3-1/2 to 4-1/2 pints of GENEP per acre. Use the lower rate on coarse textured soils. Apply as a directed spray to the base of the bean before the pods have started to form. Do not feed or graze vines within 45 days of treatment.

Lay-By Subsurface - At last cultivation apply 3-1/2 pints of GENEP per acre to clean weed free soil. SEE DIRECTIONS FOR USE. Do not feed or graze vines within 45 days of treatment.

Beans, Dry - GENEP and Treflan* EC Herbicide Tank-Mix

A tank-mix combination of GENEP plus Treflan EC will give a broader spectrum of weed control than either product used separately.

CAUTION: The combination of GENEP and Treflan EC should not be used on soybeans, blackeyed peas (beans), lima beans, and other flat-podded beans, except Romano.

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.

Do not graze or feed forage from treated fields to livestock.

Read both the GENEP and Treflan EC 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.

ADDITIONAL WEEDS CONTROLLED BY THE COMBINATION

Annual Grasses:

Bromegrass	Bromus species
Cheat	Bromus secalinus
Junglerice	Echinochloa colonum
Sprangletop	Leptochloa filiformis

Annual Broadleaves:

Henbit	Lamium amplexicaule
Knotweed	Polygonum aviculare
Kochia	Kochia scoparia
Nettle, Stinging	Urtica divica
Puncturevine	Tribulus terrestris
Pusley, Florida	Richardia scabra
Thistle, Russian	Salsola kali

DIRECTIONS FOR USE

Mixing

Add the recommended rates of both GENEP and Treflan EC 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.

Soil Incorporation

The GENEP and Treflan EC 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 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.

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

Planting

Plant dry beans within 48 hours after incorporation.

RECOMMENDATIONS

Broadcast the combination of GENEP and Treflan EC according to the following rates:

GENEP

Apply 2-1/2 pints of GENEP in combination with Treflan EC for control of annual grasses. Apply 3-1/2 pints of GENEP in combination with Treflan EC for control of nutsedge and labeled broadleaf weeds.

Treflan EC

Soil Type	Organic Matter Content	Rate
Coarse (sand)	0-2%	1 pt.
Coarse (sand)	2-5%	1-1/2-2 pts.
Medium (loam)	0-5%	1-1/2 pts.
Fine (Clay)	0-5%	2 pts.
All Soil Types	5.1-10%	2 pts.

*Treflan - trifluralin, registered trademark of Elanco Product Co.

Beans, Dry - GENEP and Sonalan* Tank-Mix

For expanded weed control, especially nightshade control in dry beans, apply the tank mix combination before crop planting. Observe application requirements, cautions and limitations, for both products and follow label recommendations. Prepare the soil as described in Genep™ label and apply the tank mix combinations and incorporate immediately.

<u>Soil Texture</u>	<u>Recommended Rates (Pints)</u>	
	<u>Genep 7</u>	<u>Sonalan</u>
Coarse (sandy)	3.5	1.25-2.0
Medium (sandy loam)	3.5	1.75-2.5
Fine (clay)	3.5	2.25-3.0

Precaution: Observe all Sonalan label precautions and limitations

* Sonalan - ethalfluralin, registered trademark of Elanco Products Co.

Castor Beans - Northern Region Only

Apply and incorporate 2-1/4 pints of GENEP per acre immediately after planting. Use a rotary hoe for incorporation. Early cultivation after GENEP application enhances weed control.

Flax

NORTHERN REGION

Fall Application - (Minnesota and North Dakota Only) - Apply and incorporate in late fall before soil freezes. Use 4-1/2 pints of GENEP per acre on coarse textured soils and 5-1/4 pints per acre on medium and fine textured soils.

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PACIFIC NORTHWEST REGION

Preplanted Incorporated - Apply and incorporate 3-1/2 pints of GENEP per acre broadcast just before planting.

Peas, Green Processing (Western Washington Only)

Apply and incorporate 2-1/4 pints of GENEP per acre broadcast just before planting. Early stunting of crop may occur.

Potatoes (Irish) All Regions Except Southeastern

For tank mix combination of GENEP with Metribuzin in Oregon and Washington only see state label following the Recommendation Sections.

Do not exceed 7 pints of GENEP per acre per crop. The Superior variety potato is sensitive to GENEP and under stress conditions, early season stunting may occur.

Preplant Incorporated - Apply and incorporate 3-1/2 pints of GENEP per acre just before planting. For quackgrass and nutgrass control in the Northern and Southwestern regions, use 7 pints. Fall application in Minnesota and North Dakota only. Apply and incorporate in late fall before soil freezes 5-1/4 pints of GENEP on coarse textured soils and 7 pints on medium or fine textured soils.

Drag-off Incorporation - Apply and incorporate 3-1/2 pints of GENEP per acre. For nutgrass control in Northern and Southern regions, use 7 pints per acre. The field should be "dragged-off" before application and incorporation. Use spike-toothed harrows or cultivation equipment for incorporation.

Lay-By Incorporation - Apply and incorporate 3-1/2 pints of GENEP per acre to clean cultivated soil after potatoes have emerged. Apply as a directed spray to the soil. Do not apply within 45 days of harvest.

Lay-By Irrigation - Meter 3-1/2 pints of GENEP per acre into the irrigation water following clean cultivation. Do not apply within 45 days of harvest.

Potatoes (Irish) Southeastern Region Only

Do not exceed 3-1/2 pints of GENEP per acre per crop.

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

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Preplant Incorporation - Apply and incorporate 3-1/2 pints of GENEPE per broadcast acre just before planting. For incorporated applications to beds, apply as a band and incorporate with ground or power-driven tillers. SEE DIRECTIONS FOR USE: Incorporation.

After planting and Before Bedding - Apply 1-3/4 pints of GENEPE per acre broadcast over planted crop and bed up immediately with bedding discs set to cover with 3-4 inches of soil. The same application can be made after bed formation by rebedding immediately after application of the GENEPE.

Drag-Off Incorporation - Apply and incorporate 3-1/2 pints of GENEPE per acre. The field should be "dragged off" before application. Use spike-toothed harrows or cultivation equipment for incorporation.

Lay-By Incorporation - Apply and incorporate 3-1/2 pints of GENEPE per acre to clean cultivated soil after potatoes have emerged. Apply as directed spray to the soil. Do not apply within 45 days of harvest.

Lay-By Irrigation - Meter 3-1/2 pints of GENEPE per acre into the irrigation water following clean cultivation. Do not apply within 45 days of harvest.

Safflower, Northern, Pacific Northwest, and Western Regions

Apply and incorporate 3-1/2 pints of GENEPE per acre broadcast just before planting.

Sunflower - Northern Region Only

Preplant incorporated (Minnesota, North Dakota, and South Dakota) - Apply and incorporate 3-1/2 pints of GENEPE per acre just before planting.

Fall application (Minnesota, North Dakota) - Apply and incorporate GENEPE in the late fall before soil freezes. Use 4-1/2 pints per acre on coarse textured soils and 5-1/4 pints per acre on medium and fine textured soils.

Sugar Beets

NORTHERN REGION

Postemergence Irrigation Water - Meter 2-1/4 to 3-1/2 pints of GENEPE per acre into the first irrigation application after the last cultivation of the season. Use the lower rate on coarse textured sandy soils.

Postemergence Incorporation - Apply and incorporate 3-1/2 pints of GENEPE per acre to a depth of 2 to 3 inches after thinning and clean cultivation.

Postemergence Subsurface Injection - Apply 3-1/2 pints of GENEPE per acre following a clean cultivation to destroy all weed growth. For a band application on 22 inch rows, use 2 injectors spaced 5-1/2 inches apart and centered on the drill row. SEE DIRECTIONS FOR USE.

Fall Application - (Minnesota, North Dakota Only) Apply and incorporate 4-1/2 to 5-1/4 pints of GENEP per acre in the late fall before the soil freezes. Use the lower rate on coarse textured sandy soils.

Preplant - (Iowa, E. Nebraska, Minnesota, Michigan, N. Dakota, S. Dakota, Only) Apply and incorporate 2-1/4 to 3-1/2 pints of GENEP per acre just before planting. Injury will occur if conditions for germination and growth are not optimum. Use the lower rate on coarse textured sandy soils.

SOUTHWEST REGION

Postemergence Irrigation Water - Meter 2-1/4 to 3-1/2 pints of GENEP per acre into the first irrigation applied after the last cultivation of the season. Use the lower rate on coarse textured sandy soils.

Postemergence Incorporation - Apply and incorporate 2-1/4 pints of GENEP per acre to a depth of 2 to 3 inches after thinning and clean cultivation.

PACIFIC NORTHWEST REGION

Postemergence Irrigation Water - Meter 2-1/4 to 3-1/2 pints of GENEP per acre into the first irrigation applied after the last cultivation of the season. Use the lower rate on coarse textured sandy soils. Do not apply within 49 days of harvest.

Postemergence Incorporation - Apply and incorporate 3-1/2 pints of GENEP per acre to a depth of 2 to 3 inches after thinning and clean cultivation. Do not apply within 49 days of harvest.

Postemergence Subsurface Injection - Apply 3-1/2 pints of GENEP per acre following a clean cultivation to destroy all weed growth. For a band application on 22 inch rows, use 2 injectors spaced 5-1/2 inches apart and centered on the drill row. SEE DIRECTIONS FOR USE. Do not apply within 49 days of harvest.

WESTERN REGION

Postemergence Irrigation Water - Meter 2-1/4 to 3-1/2 pints of GENEP per acre into the first irrigation applied after the last cultivation of the season. Use the lower rate on coarse textured sandy soils.

Postemergence Incorporation - Apply and incorporate 3-1/2 pints of GENEP per acre to a depth of 2 to 3 inches after thinning and clean cultivation.

Postemergence Subsurface Injection - Apply 3-1/2 pints of GENEP per acre following a clean cultivation to destroy all weed growth. For a band application on 22 inch rows, use 2 injectors spaced 5-1/2 inches apart and centered on the drill row. SEE DIRECTIONS FOR USE.

Sweet Potatoes - SOUTHWESTERN REGION ONLY

Preplant - Apply and incorporate GENEP to a maximum depth of 3 inches just before planting. Use 1-3/4 pints on coarse textured soils and 2-1/4 pints on medium and fine textured soils. Immediately after application, cover the treated bed with 2 to 4 inches of untreated soil from the area adjacent to the band using bed shaping equipment.

Preplant Bed-up - After pre-shaped beds have been dragged down, apply GENEP broadcast to the soil. Use 1-3/4 pints per acre on coarse textured soils or 2-1/4 pints per acre on medium and fine textured soils. Immediately after application, reform the bed with bed shaping equipment that will leave a band of GENEP 2 to 4 inches below the bed surface.

Postplanting - Apply 8-1/2 pints of GENEP per acre broadcast immediately after or within 2 days after planting slips or vine cuttings. Apply to a dry soil surface. Do not mix into the soil. If sweet potatoes are to be irrigated, apply GENEP before irrigation.

Table Beets - PACIFIC NORTHWEST REGION ONLY

Apply and incorporate 2-1/4 pints of GENEP per acre just before planting.
Note: Under normal use, table beets are susceptible to GENEP injury and the seeding rate should be increased 10 percent.

Tomatoes - WESTERN REGION ONLY

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

Lay-by Application - Only in Northern California Counties of Butte, Colusa, Contra Costa, Glenn, Merced (North of Highway 152), Sacramento, San Joaquin, Solano, Stanislaus, Sutter, Yolo, and Yuba.

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

RECOMMENDATIONS - TREE CROPS

Almonds - WESTERN REGION ONLY

After making the last cultivation of the season, meter 3-1/2 pints of GENEP per acre into the irrigation water. Do not apply within 14 days of harvest.

Citrus Trees - SOUTHEASTERN, SOUTHWESTERN, AND WESTERN REGIONS

Citrus Nursery Stock and Young Field Plantings (Non-bearing Orange, Grapefruit, and Lemon Groves) - After lining out, apply 3-1/2 to 7 pints of

GENEP per acre as a directed spray to the soil. Incorporate with cultivation equipment such as tree hoes or rotary hoes. Use the lower rate only on very coarse textured soils.

Citrus Bearing (Oranges, Tangerines, Grapefruit, Lemons) - After clean cultivation, or before weed emergence in bearing citrus, apply 3-1/2 pints of GENEP per acre by flood or furrow irrigation. Do not apply within 15 days of harvest.

Pine Seedling Nurseries - SOUTHEASTERN AND SOUTHWESTERN REGIONS

Loblolly, Slash, Long Leaf, Short Leaf - Apply and incorporate 7 pints of GENEP per acre 14 days before seeding.

Walnuts - PACIFIC NORTHWEST AND WESTERN REGIONS

After clean cultivation or before weed emergence on well established trees, meter 3-1/2 pints per acre into the irrigation water during the entire irrigation period

RECOMMENDATIONS - ORNAMENTALS

Directions For Use

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 GENEP 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 GENEP over the area to be treated, then apply the remainder at right angles or crosswise.

Knapsack Sprayer: Apply as suggested for the hose proportioner.

Incorporation: Immediately after application, thoroughly mix GENEP into the soil to a depth of 2 to 3 inches. Mix to a depth of 6 inches for Nutgrass, Quackgrass, Bermudagrass, and Chrysanthemum-weed (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 preplant broadcast (overall) applications, preplant band applications, and post-plant applications.

Home Garden - Preplant Application - Rototiller - Postplant 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.

GENEP CAN BE USED ON THESE ORNAMENTALS

herbaceous Plants

Ageratum
Ajuga
Alyssum
Amaranthus
Asters
Balsam
Begonia
Chrysanthemum
Dahlia
Daylilies
Dianthus
Gazania
Ground Covers
Hypericum
Ice Plant
Ivy
Marigold
Nasturtium
Pachysandra
Pansy
Periwinkle (vinca minor)
Petunia
Sedum
Strawberry (ornamental)
Zinnia

Evergreen and Deciduous Trees and Shrubs

Azalea
Berberis
Boxwood
Camellia
Chamaecyparis
Citrus (non-bearing)
Dogwood
Euonymus
Fir
Hemlock
Holly (American and Japanese)
Juniper
Leucothoe
Lilac
Linden
Magnolia
Maple
Oak
Pieris
Pine
Podocarpus
Rhododendron
Spruce
Viburnum
Yew (taxus)

NOTE: All flowering bulbs, salvia, phlox, snapdragon, and ornamental pepper are susceptible to injury from an application of GENEP.

For Annual Weed Control - Use GENEP 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 GENEP at the rate of 7 pints in 10 to 50 gallons of water per acre (2.5 fl. oz. per 1,000 square feet).

748-222

For Mugwort (Chrysanthemumweed) Control in the Following Plants: Juniper, Japanese Holly, Ivy, Pachysandra, Petunias - Use 17 pints of GENEP 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 GENEP

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.

FOR DISTRIBUTION AND USE ONLY WITHIN OREGON AND WASHINGTON

GENEP™ EPTC 7E

SELECTIVE HERBICIDE SUPPLEMENTAL LABELING

GENEP™ AND METRIBUZIN TANK MIX

For Control of Weeds in Irish Potatoes

OREGON SLN No. 830024

WASHINGTON SLN No. 830022

A tank mix combination of GENEP™ EPTC 7E herbicide and metribuzin (Sencor** 4, Sencor 50W, Sencor DF, Lexone***4, Lexone 50W or Lexone Dry Flowable 75%) can be applied to Irish potatoes in the Pacific Northwest (Oregon, Washington, and Idaho) of the United States to give a broader spectrum of weed control than either product used alone.

CAUTION: Before using GENEP and metribuzin (Sencor, Lexone) as a tank mix, read both the GENEP 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

See both the GENEP and metribuzin (Sencor or Lexone) labels for the list of weeds controlled by the combination.

DIRECTIONS FOR USE

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

MIXING: Add the recommended rates of GENEP and metribuzin (Sencor, Lexone) to the spray tank during the filling operation. Add GENEP 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 and observe to be sure that the nozzles are delivering a uniform spray pattern during application.

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

SPRINKLER APPLICATION (Pacific Northwest only): Apply through irrigation sprinkler system after planting as a preemergence application according to the SENCOR or LEXONE labels for preemergence application and/or as early postemergence 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 parts water to 1 part chemical. Add GENEP 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 devices 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 GENEP and metribuzin (Sencor, Lexone) according to the following rates:

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

GENERAL USE PRECAUTIONS

Before using GENEP plus metribuzin as a tank mix, read and observe the cautionary statements and all other information appearing on both product labels.

Always perform a jar test to insure compatibility of the desired GENEP metribuzin tank mix.

** SENCOR is a registered trademark of the Parent Company of Farbenfabriken Bayer GmbH, Leverkusen.

***LEXONE is a registered trademark of E. I. DuPont De Nemours & Co., Inc.

APPENDIX I
PROCEDURE FOR TESTING THE COMPATIBILITY OF GENEP WITH FLUID FERTILIZERS

The following procedure is suggested for determining whether GENEP may be combined with a specific fluid fertilizer for spray tank application and whether an adjuvant is required.

Materials Required

1. GENEP 7E
2. Fluid fertilizer to be used.
3. Adjuvant for fertilizer tank mix: Compex*, Sponto 168-D*, Uni-mix*, or equivalent. The adjuvant which provides the best emulsification depends on the specific fertilizer under consideration.
4. Two one-quart, wide-mouth glass jars with lid or stopper.
5. Measuring spoons (a 25 ml pipette or graduated cylinder provides more accurate measurement).
6. Measuring cup, 8 oz. (237 ml).

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 GENEP to both jars (See the 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) Five minutes after completing the jar inversions.
 - (B) Two hours later after repeating the jar inversions.

A mixture may not be compatible if either of the following conditions are observed at either inspection period:

- (1) An oil layer or large oil globules are seen at the surface of the mixture.
- (2) Clumps or aggregates are present.

If the mixture has separated at the five minute inspection period, but mixes readily with agitation, the combination may be used PROVIDED good agitation is maintained throughout the mixing and application operations. If the oil layer cannot be redispersed with agitation or clumps persist, the mixture is incompatible and should not be used.

If the GENEP is incompatible with the fertilizer, carefully inspect the mixture containing the adjuvant. If this mixture is compatible, then the GENEP may be used with the fluid fertilizer provided that adjuvant is added to the fluid fertilizer and thoroughly mixed before adding the GENEP. Add the adjuvant at the rate of 3 pints per 100 gallons of fluid fertilizer. Minimize foaming by using moderate agitation.

7/18-200

If the mixture with the adjuvant is also incompatible, then GENEP should not be used in the same tank with the fertilizer.

*Complex - Kalo Laboratories, Inc., Petaluma, CA; Sponto 168-D - Witco Chemical Company, Houston, TX; Uni-Mix - Thompson Hayward Chemical Co., Kansas City, KS

Rate Table for GENEP and Adjuvant
With the Fluid Fertilizer

Gallons of Fluid Fertilizer to be applied per acre	Ml. or Tsp. of GENEP 7E to be Added to 1 Pint of Fertilizer	
	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 GENEP in 40 gallons fertilizer per acre, add 8 ml. or 2 tsp. GENEP 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 2
IMPREGNATION ON DRY BULK FERTILIZERS

CAUTION: GENEP alone or in combination with other herbicides must not be impregnated on ammonium nitrate, sodium nitrate or potassium nitrate or blended fertilizers containing these nitrates. Nitrate fertilizers represent a potential explosive and fire hazard, particularly in contact with organic substances.

GENEP 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 in corn.

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

For impregnating GENEP 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 physical properties of fertilizers vary, particularly in liquid absorptive capacity.

When absorptivity is sufficient, simple spray impregnation of the fertilizer with GENEP 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 GENEP 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 GENEP 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 GENEP actually contained in the mixture applied to the soil represents the correct rate of use.

All GENEP supplementary literature instruction and label recommendations regarding rates per acre, soil incorporation, application, cautions, general use precautions and other directions must be followed.

All individual state regulations governing bulk dry fertilizer impregnation and application of impregnated fertilizer must be observed and followed.

Bulk fertilizer impregnated with GENEP 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 GENEP loss via volatilization.

Approved Dry Fertilizer Ingredients

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

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

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

Fertilizer Rate
Per Acre

GENEP 7E
RATES 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	12-1/2 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 3

CONSTANT FLOW DEVICE FOR GENEP IN WATER-RUNS

FLOW RATES FOR GENE P USING VARIOUS TEEJET* ORIFICES (4916)**

TeeJet Orifice	Ounces Per Minute	cc Per Minute	Gallons Per Hour	Pounds Per Hour
.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	12.964
.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	2.778	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 ozs. at 70°F to 2.4 oz. at 92°F). Use a 300 mesh screen on orifice sizes below .014 and a 200 mesh screen on all others.

HOW TO FIGURE WHICH ORIFICE TO USE FORMULA:

$$\frac{\text{Pounds per Broadcast acre X acres}}{\text{Hours of Irrigation}} = \text{Pounds per Hour}$$

CONDITIONS OF SALE

The statements and methods presented about the product mentioned are based upon the best available information and practices known to PPG Industries at the present time, but except as expressly set forth in the performance warranty, are not representations of performance, result, or comprehensiveness of such data.

The products mentioned herein, if not used in accordance with directions, can be hazardous. PPG Industries recommends that anyone using and/or handling the products mentioned herein, before using them, thoroughly read and understand the specific directions for use and the precautions appearing on the product label.

The products mentioned herein, as all potentially dangerous materials, must be kept out of the reach of children.