



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

December 9, 2019

Luz G. Chan
Registration Manager
Drexel Chemical Company
1700 Channel Avenue
P.O. Box 13327
Memphis, TN 38113-0327

Subject: Registration Review Label Mitigation for EPTC
Product Name: Drexel EPTC-7EC
EPA Registration Number: 19713-101
Application Dates: January 7, 2019
Decision Numbers: 557217

Dear Ms. Chan:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the EPTC Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

Page 2 of 2
EPA Reg. No. 19713-101
Decision No. 557217

If you have any questions about this letter, please contact Jaclyn Pyne by phone at 703-347-0445, or via email at pyne.jaclyn@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Linda Arrington', with a stylized flourish at the end.

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

ACCEPTED
 Dec 09, 2019
 Under the Federal Insecticide, Fungicide
 and Rodenticide Act as amended, for the
 pesticide registered under
 EPA Reg. No. 19713-101

EPTC	GROUP	8	HERBICIDE
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EPTC-7EC

Selective Herbicide – Emulsifiable Liquid

ACTIVE INGREDIENT:

EPTC: S-ethyl dipropylthiocarbamate.....	87.8%
OTHER INGREDIENTS:	12.2%
TOTAL:	100.0%

This product contains 7 pounds of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING / AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See First Aid Below
[See Side (Back) Panel for FIRST AID]

EPA Reg. No. 19713-101
 EPA Est. No. 19713-XX-X

Net Content: _____ Gals. (_____ L)

FIRST AID
<p>IF IN EYES:</p> <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
<p>IF SWALLOWED:</p> <ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have a person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give anything by mouth to an unconscious or convulsing person.
<p>IF ON SKIN OR CLOTHING:</p> <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
<p>IF INHALED:</p> <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
<p>Have the product container or label with you calling a poison control center or doctor, or going for treatment. You may also call CHEMTREC at 800-424-9300 for emergency medical treatment information.</p>
<p>NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. This product contains EPTC, a thiocarbamate that inhibits cholinesterase. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. Pralidoxime chloride (2-PAM) is NOT recommended as an antidote for this compound. Thiocarbamates have been shown in laboratory animals to cause disulfiram (Antabuse)-type reaction in combination with alcohol.</p>

101SP-1218*P

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING: Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through the skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing vapor or spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders and handlers exposed to the concentrate must wear: Long-sleeved shirt and long pants; chemical-resistant gloves such as Barrier laminate, Butyl rubber \geq 14 mils, Nitrile rubber \geq 14 mils, Neoprene rubber \geq 14 mils, or Viton \geq 14 mils; chemical-resistant footwear and socks, and protective eyewear. In addition to the above PPE, persons mixing and loading into chemigation systems must wear a minimum of an NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and a combination N¹, R, or P filter; OR a NIOSH-approved gas mask with OV canisters; OR a NIOSH-approved powered air-purifying respirator with OV cartridges and combination HE filters.

Applicators and other handlers exposed to the dilute must wear: Long-sleeved shirt and long pants; and shoes plus socks. In addition to the above PPE, applicators using back-pack or handheld equipment must wear chemical-resistant gloves such as Barrier laminate, Butyl rubber \geq 14 mils, Nitrile rubber \geq 14 mils, Neoprene rubber \geq 14 mils, or Viton \geq 14 mils. In addition to the above PPE, applicators applying dry-bulk fertilizer with a specialized truck designed to treat more than 80 acres must a minimum of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and a combination R or P filter; OR a NIOSH-approved gas mask with OV canisters; OR a NIOSH-approved powered air-purifying respirator with OV cartridges and combination HE filters.

In addition to the above PPE, applicators using back-pack sprayers on orchards must wear: Coveralls worn over long-sleeved shirt and long pants and waterproof gloves or chemical-resistant gloves.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS

Commercial (for-hire) handlers engaged in impregnating this product into dry bulk fertilizer must: Use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)], and wear the PPE required for mixers/loaders, except shoes may be substituted for chemical-resistant footwear; and have immediately available for use in case of an accident, a minimum of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and a combination R or P filter; OR a NIOSH-approved gas mask with OV canisters; OR a NIOSH-approved powered air-purifying respirator with OV cartridges and combination HE filters.

When other handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(4-5)], the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This chemical is toxic to mammals. Do not apply directly to water or to areas where water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

NON-TARGET ORGANISM ADVISORY STATEMENT

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide.

AGRICULTURAL USE REQUIREMENTS

Use this product in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and Restricted Entry Interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI of 12 hours.

Exception: If this product is soil-injected or soil-incorporated, the WPS, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated. PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, chemical-resistant gloves such as Barrier laminate, Nitrile rubber, Neoprene rubber or Viton, and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not enter or allow others to enter the treated area until sprays have dried and incorporation (if required) is complete.

EPTC-7EC 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. This product controls weeds by interfering with normal germination and seedling development. This product does not control established or germinated weeds present at application.

USE RESTRICTIONS

- Do not apply this product using back-pack sprayer except for orchards. Maximum application rates on orchards using back-pack sprayers is 0.35 pints (5.6 fl. ozs.) (0.31 lbs. a.i.) per gallon.
- Do not apply this product using aerial application equipment.

USE PRECAUTIONS

Read all label directions before using. This product should be used only for recommended purposes and recommended rates. DO NOT OVERDOSE. This product is recommended for use on mineral soils (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 this product prior to pre-irrigation. Tank mix this product with fungicides, insecticides or herbicides only as recommended. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank-mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture.

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

SPECIAL PRECAUTIONS FOR ORNAMENTAL USES

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

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

RESISTANCE MANAGEMENT

EPTC	GROUP	8	HERBICIDE
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For resistance management, this product is a Group 8 mode of action herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 8 mode of action herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance management strategies should be followed.

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of this product or other Group 8 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Drexel Chemical Company representatives at (901) 774-4370.

SPRAY DRIFT REQUIREMENTS

Ground Boom Applications

- Apply with the nozzle height recommended by the manufacturer, but no more than 4 ft. above the ground or crop canopy.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

Boom-less Ground Applications

- Applicators are required to use a Medium or coarser droplet size (ASABE S572.1) for all applications.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

BOOM HEIGHT

Ground Boom Application:

For ground equipment, the boom should remain level with the crop and have minimal bounce.

Boom-less Ground Application:

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.
Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

WEEDS CONTROLLED

This product will not control established weeds.

ANNUAL GRASSES	
Common Name	Scientific Name
Annual Bluegrass	<i>Poa annua</i>
Annual Ryegrass (Italian Ryegrass)	<i>Lolium multiflorum</i>
Barnyardgrass (Watergrass, Junglerice)	<i>Echinochloa</i> spp.
Bermudagrass (Seedlings)	<i>Cynodon dactylon</i>
Crabgrass	<i>Digitaria</i> spp.
Giant foxtail	<i>Setaria faberi</i>
Goosegrass	<i>Eleusine indica</i>
Green foxtail	<i>Setaria viridis</i>
Johnsongrass (Seedlings)	<i>Sorghum halepense</i>
Lovegrass (Stinkgrass)	<i>Eragrostis ciliaris</i>
Panicum, Fall	<i>Panicum dichotomiflorum</i>
Panicum, Texas*	<i>Panicum texanum</i>
Rescuegrass	<i>Bromus catharticus</i>
Sandbur, Field	<i>Cenchrus incertus</i>
Shattercane**	<i>Sorghum bicolor</i>
Signalgrass	<i>Brachiaria</i> spp.
Volunteer grains (Barley, Oats, Wheat)*	
Wild oats*	<i>Avena fatua</i>
Witchgrass*	<i>Panicum capillare</i>
Yellow foxtail	<i>Setaria lutescens</i>

*May not be controlled at less than 3.5 pints of this product per acre.
**May not be controlled at less than 7 pints of this product per acre.

ANNUAL BROADLEAF WEEDS	
Common Name	Scientific Name
Black nightshade*	<i>Solanum nigrum</i>
Carpetweed	<i>Mollugo verticillata</i>
Chickweed, Common	<i>Stellaria media</i>
Corn spurry	<i>Spergula arvensis</i>
Cutleaf nightshade*	<i>Solanum triflorum</i>
Deadnettle (Henbit)	<i>Lamium amplexicaule</i>
Fiddleneck	<i>Amsinckia</i> spp.
Florida pusley	<i>Richardia scabra</i>
Hairy nightshade*	<i>Solanum sarrachoides</i>
Lambsquarters, Common*	<i>Chenopodium album</i>
Nettleleaf, Goosefoot	<i>Chenopodium murale</i>
Purslane, Common	<i>Portulaca oleracea</i>
Prostrate pigweed	<i>Amaranthus blitoides</i>
Prickly Sida*	<i>Sida spinosa</i>
Redroot pigweed (Common pigweed)	<i>Amaranthus retroflexus</i>
Sicklepod*	<i>Cassia obtusifolia</i>
Tall morningglory	<i>Ipomoea purpurea</i>
Tumble pigweed	<i>Amaranthus albus</i>

*May not be controlled at less than 4.5 pints of this product per acre.

The annual Broadleaf weeds listed in the above table 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 3.5 pints of this product per acre in heavier soils or under very cold soil conditions.

PERENNIAL WEEDS	
Common Name	Scientific Name
Bermudagrass	<i>Cynodon dactylon</i>
Purple nutsedge*	<i>Cyperus rotundus</i>
Quackgrass	<i>Agropyron repens</i>
Yellow nutsedge*	<i>Cyperus esculentus</i>
Mugwort (Chrysanthemumweed)**	<i>Artemisia vulgaris</i>

*May not be controlled at less than 3.5 pints of this product per acre.
**Controlled by high rates of this product specified for use on certain ornamentals only. See ornamental instructions 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 4.5 to 7 pints of this product for Quackgrass and 3.5 to 7 pints for Bermudagrass. This product should be incorporated by discing or applied in the irrigation water after the rhizomes and stolons have been cut up. Consult instructions for crops on which these higher rates may be used. Nutsedge may not be controlled by water-run applications in heavier soils.

APPLICATION DIRECTIONS

Pour the specified amount of this product into the spray tank during 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). This product 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 I" for special directions regarding these combinations. Even though found to be compatible, constant agitation is necessary to keep this product 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

This product may be impregnated on dry fertilizer for use on registered crops. However, uniform distribution of this product on fertilizer particles and uniform application are necessary to assure good results. See "APPENDIX II" directions for impregnation and use.

INCORPORATION DIRECTIONS

This product alone and this product in tank mixes must be incorporated (mixed thoroughly) into the top 2 to 3 inches of 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 is commonly 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). The second pass should be slightly shallower than the first.

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 and Medium 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.

SOIL MIXING (INCORPORATION) AFTER PLANTING

The following equipment is commonly used for soil mixing (incorporation) after planting: Power-Driven Cultivation Equipment (recommended on all soil types) set to cut to a depth of 2 to 3 inches and operated at 6 to 8 mph.

Rolling Cultivators (recommended on Coarse and Medium textured soils only) set to cut to a depth of 2 to 3 inches and operated at 6 to 8 mph.

Rotary Hoes or Row Wheels (recommended on Coarse textured soils only) set to cut to a depth of 1 to 1.5 inches and operated at 6 to 8 mph.

USE PRECAUTIONS

In established crops, adjust equipment to throw soil toward the base of the crop. Take care not to disturb the crop seed or seedling when incorporating after planting. Shallow incorporation with implements set to cut less than 2 inches deep may result in erratic weed control.

SUB-SURFACE APPLICATION

At Planting or Post-Emergence

Apply this product 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 2.5 to 3 inches apart and mounted in staggered positions to avoid trash buildup. Set shanks to inject this product 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 1.25 to 1.5 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 2.75 INCHES ON EITHER SIDE OF THE DRILL ROW.

Covered Sweeps

Set the sweeps to run below the soil surface deep enough to cover this product 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, this product 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 this product into the irrigation water by using a metering device that will introduce a constant flow into the water. For flood, furrow or sprinkler irrigation, meter this product into the water during the entire period, OR, for sprinkler irrigation, this product may be metered into sufficient water to penetrate to a depth of 3 to 4 inches. Time the application of this product to ensure 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 is found in Appendix III of this booklet.

USE PRECAUTIONS FOR SPRINKLER IRRIGATION SYSTEMS

Apply this product only through sprinkler, including center pivot, flood (basin) or furrow irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

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

The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained.

Any alternative to the above required safety devices must conform to the list of EPA-approved alternative devices.

USE PRECAUTIONS FOR FLOOD OR FURROW IRRIGATION

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.

Systems using a gravity-flow pesticide-dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity, such as a drop structure or weir box, to decrease potential for water-source contamination from backflow if water flow stops.

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Any alternative to the above required safety devices must conform to the list of EPA-approved alternative devices.

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 one-half the depth the herbicide was incorporated or injected. Pre-emergence or post-emergence herbicides may be necessary to control weeds resistant to this product.

REGIONAL USE MAP



APPLICATION INSTRUCTIONS

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

RATE CONVERSION TABLE

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

Pints of This Product per Acre	Pounds of Active Ingredient per Acre	Acres Treated by 1 Gal. of This Product
1.25	1	7
1.75	1.5	4.66
2.25	2	3.5
3.5	3	2.33
4.5	4	1.75
5.25	4.5	1.5
5.75	5	1.4
7	6	1.16
8.5	7.5	1
17	15	0.5

NORTHERN REGION

These instructions are given as the broadcast (overall) rates of this product 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 TREFLOIL, CLOVERS, LESPEDEZA: Do not use this product if a grass or grain nurse crop is to be planted with the Legume. Do not use on White dutch clover. Apply and incorporate 3.5 to 4.5 pints of this product 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 2.25 pints of this product 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 this product on Alfalfa if atrazine was applied within the previous 12 months.

AND/OR

ALFALFA (Established Stands): Meter 2.25 to 3.5 pints of this product 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 2.25 to 3.5 pints of this product 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, DRY OR GREEN: Do not use this product on Adzuki beans, Cowpeas, (Black-eyed peas, Black-eyed beans), Garbanzo beans, Lima beans, Mung beans, Soybeans 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 3.5 pints of this product per acre on small White beans or Green beans grown on Coarse textured soils. For Fall applications, do not make more than one application per crop. Do not exceed the maximum total of 9.75 pints of this product per acre per crop season.

Fall Application (Dry beans, MN and ND only): Apply and incorporate in the late Fall before the ground freezes. Use 4.5 pints of this product per acre on Coarse textured soils and 5.25 pints of this product 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, 3.5 to 4.5 pints of this product per acre. Rotary hoe lightly during or shortly after emergence of the Beans to break any crust which occurs.

AND/OR LAY-BY

Directed Application: At time of last cultivation for the season, apply and incorporate 3.5 to 4.5 pints of this product 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.

OR

Irrigation Application (Dry Beans Only): Meter 3.5 to 4.5 pints of this product per acre into the irrigation water after clean cultivation. Apply before Bean pods start to form. Do not feed or pasture vines to livestock until 45 days after application.

TANK MIXTURES:

Tank Mixtures with This Product for Beans in Northern Region. Refer to "TANK MIXTURE" Section for Use Directions.	
Products	Comments
This Product/Treflan® E.C. or Trifluralin 4EC	Green and Dry Beans
This Product/Me-Too-Lachlor™ Herbicide	Dry Beans Only
This Product/Lasso® 4-E	Dry Beans Only
This Product/Prowl® 4-E, Pin-Dee™ 3.3 EC or Aquapen™	Dry Beans Only
This Product/Sonalan® E.C.	Dry Beans Only

CASTOR BEANS: Apply and incorporate 2.25 pints of this product per acre immediately after planting. Use a rotary hoe for incorporation. Early cultivation after application of this product enhances weed control.

POTATOES, IRISH: Do not exceed 7 pints of this product per acre per crop. The Superior variety Potato is sensitive to this product and under stress conditions, early season stunting may occur.

Fall Application (MN, ND): Apply and incorporate in the late Fall before the ground freezes. Use 5.25 pints of this product per acre on Coarse textured soils and 7 pints of this product per acre on Medium and Fine textured soils.

Pre-Plant Incorporation: Apply and incorporate 3.5 to 7 pints of this product per acre. For Quackgrass and Nutsedge control, use the higher rate.

OR DRAG-OFF (COME UP, WEEDING TIME)

Apply and incorporate 3.5 to 7 pints of this product per acre. For Nutsedge control, use the higher rate. The field must be first "dragged off", followed by application of this product and incorporation. Use spiked-tooth harrows or cultivation equipment for incorporation.

OR LAY-BY

Apply and incorporate 3.5 to 4.5 pints of this product per acre to clean, cultivated soil after Potato plants have emerged from the soil. Do not apply within 45 days of harvest.

AND/OR

Irrigation: Meter up 3.5 pints of this product per acre into the irrigation water after clean cultivation. Do not apply within 45 days of harvest.

TANK MIXTURES:

TANK MIXTURES WITH THIS PRODUCT FOR POTATOES IN NORTHERN REGION.

Refer to "TANK MIXTURE" section for use directions.

PRODUCTS: This Product/Metribuzin, This Product/Matrix®

SAFFLOWER: Apply and incorporate 3.5 pints of this product per acre just before planting.

SUGAR BEETS

Fall Application (MN, ND): Apply and incorporate in the late Fall before the ground freezes. Use 4.5 pints of this product per acre on Coarse textured soils and 5.25 pints of this product on Medium and Fine textured soils.

Pre-plant (IA, MI, MN, ND, Eastern NE, SD): Apply and incorporate 2.25 pints of this product per acre on Coarse textured soil or 3.5 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 3.5 pints of this product per acre into the irrigation water after clean cultivation. Do not exceed 7 total pints of this product per acre per crop. Do not apply within 49 days of harvest.

Incorporation: Apply 3.5 pints of this product 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 this product at recommended rates.

OR

Subsurface Injection: Apply 3.5 pints of this product per broadcast acre or in band treatment (using 2 shanks per row at 5.5 inches apart, centered on the drill row with rows 22 inches apart) use 1.75 pints of this product per acre. Prior to application, a clean cultivation must be made for all existing weed growth to be destroyed.

TANK MIXTURES:

Tank Mixtures with This Product for Sugar Beets in Northern Region. Refer to "TANK MIXTURE" Section for Use Directions.	
Products	Comments
This Product/RO-NEET® 6-E	MI, MN, OH and Red River Valley of ND Only.

SUNFLOWER:

Spring Application (CO, KS, MN, ND, NE, SD): Apply and incorporate 2.5 to 3.5 pints of this product per acre just before planting. Use lower rates on lighter soil.

Fall Application (MN, ND): Apply and incorporate in the late Fall before the ground freezes. Use 4.5 pints of this product per acre on Coarse textured soils and 5.25 pints of this product per acre on Medium and Fine textured soils.

TANK MIXTURES:

Tank Mixtures with This Product for Sunflowers in Northern Region. Refer to "TANK MIXTURE" Section for Use Directions.	
Products	Comments
This Product/Treflan E.C. or Trifluralin 4EC	CO, KS, MN, ND, NE and SD only.

SOUTHEASTERN REGION

These instructions are given as the broadcast (overall) rate of this product 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 this product if grass or grain nurse crop is to be planted with the Legume. Do not use on White dutch clover. Apply and incorporate 3.5 pints of this product per acre just before planting. (For Fall-seeded Alfalfa in SC only, apply and incorporate 1.75 pints of this product 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 this product on Alfalfa if atrazine was applied within the previous 12 months.

BEANS, DRY OR GREEN: Do not use this product on Adzuki beans, Cowpeas (Black-eyed peas, Black-eyed beans), Garbanzo beans, Lima beans, Mung beans, Soybeans or other flat-podded beans except Romano. Under abnormal weather conditions, stunting may occur on Gratiot, Michilite, Sanilac, Seafarer and Seaway varieties. For Small white beans or Green beans grown on coarse textured soil, do not exceed 3.5 pints of this product per acre per crop. For Irrigation (Dry beans, post-emergence), do not exceed 4.5 pints of this product per acre per crop. Do not exceed the maximum total of 7 pints of this product per acre per crop season.

AT PLANTING

Pre-plant (Flat-Planted): Use 3.5 pints of this product 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 2.25 pints of this product per acre pre-plant or at planting. See "DIRECTIONS FOR USE".

OR

Bed Treatments:

Method A — Apply 3.5 pints of this product per acre broadcast and disc in 6 inches deep prior to forming beds and planting.

Method B — Apply 1.75 pints of this product 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 2.25 pints per acre broadcast. Care should be taken not to fold in treatment.

Example: To apply this product as an 18-inch band on 36-inch rows, use 1.25 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 this product.

OR LAY-BY

Directed Application: At the time of last cultivation apply and incorporate 3.5 pints of this product 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.

OR

Irrigation Application (Dry Beans Only): Meter 3.5 to 4.5 pints of this product per acre into the irrigation water after clean cultivation. Apply before Bean pods start to form. Do not feed or pasture vines to livestock until 45 days after application.

TANK MIXTURES:

Tank Mixtures with This Product for Beans in Southeastern Region. Refer to "TANK MIXTURE" Section for Use Directions.	
Products	Comments
This Product/Treflan E.C. or Trifluralin 4EC	Green and Dry beans
This Product/Lasso 4-E	Dry beans only
This Product/Prowl 4-E, Pin-Dee 3.3 EC or Aquapen	Dry beans only
This Product/Sonalan 4-E.C.	Dry beans only

CITRUS NURSERY STOCK AND YOUNG FIELD PLANTINGS (NON-BEARING GRAPEFRUIT AND ORANGE GROVES): After lining out, apply 3.5 to 7 pints of this product per acre as a directed spray to the soil. Incorporate with cultivation equipment, i.e., tree hoes and rotary hoes.
Use Restriction: Do not apply this product within 3 years of the tree bearing fruit.

COTTON: Non-Irrigated Areas Only

Application After Stand is Established: Apply 2.25 pints of this product 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 this product. Follow directions for use carefully to avoid crop injury.

PINE SEEDLING NURSERIES (Loblolly, Longleaf, Shortleaf, Slash): Apply and incorporate 7 pints of this product per acre 14 days prior to seeding.

POTATOES, IRISH: Do not exceed 3.5 pints of this product per acre per crop.

USE PRECAUTIONS: In FL, 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 3.5 pints of this product 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 1.75 pints per crop acre. See "*DIRECTIONS FOR USE*".

OR

Before Planting and Before Bed Formation; Band Application: Apply as a band, equivalent to 3.5 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 1.75 pints of this product 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 this product as a band at a rate equivalent to 3.5 pints per acre, broadcast basis. Rebed 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 1.75 pints of this product per broadcast acre. Rebed immediately after application with bedding discs set to cover with 3 to 4 inches of soil.

OR

DRAG-OFF (COME UP, WEEDING TIME)

Apply this product as a band treatment after drag-off, at a rate equivalent to 3.5 pints per acre (broadcast basis) and 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 this product at a rate equivalent to 3.5 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.

Example: Apply 2.25 pints of this product 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 3.5 pints of this product per acre into the irrigation water after clean cultivation. Do not apply within 45 days of harvest.

TANK MIXTURES:

TANK MIXTURE WITH THIS PRODUCT FOR POTATOES IN SOUTHEASTERN REGION.

REFER TO "TANK MIXTURE" SECTION FOR USE DIRECTIONS.

Products: This Product/Matrix

SWEET POTATOES

Preplant: Apply and incorporate 2.25 pints of this product per acre on coarse textured soils or 3.5 pints per acre on medium and fine textured soils just before planting. Incorporate to maximum depth of 3 inches.

OR

Preplant–Bed-Over: Apply 1.75 pints of this product per acre on coarse textured soils or 2.25 pints per acre on medium and fine textured soils just before planting. Treat a bandwidth equal to one-third 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

Preplant–Bed-Up: Apply 1.75 pints of this product per acre on coarse textured soils or 2.25 pints per acre on medium and fine textured soils just before planting. After preshaped beds have been dragged down, this product is applied broadcast. Soil is then shaped into beds with bed shaping equipment so that the undisturbed treated layer in the finished bed is 2 to 4 inches below the bed surface. Bed-up immediately after application.

OR

Postplant: Apply 8.5 pints of this product 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, this product should be applied prior to irrigation. Apply as a solid overall spray.

SOUTHWESTERN REGION

These instructions are given as the broadcast (overall) rate of this product 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 this product if a grass or grain nurse crop is to be planted with the Legume. Do not use on White dutch clover. Apply and incorporate 3.5 pints of this product 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 this product on Alfalfa if atrazine was applied within the previous 12 months.

AND/OR

ALFALFA (Established Stands): Meter 2.25 to 3.5 pints of this product 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 2.25 to 3.5 pints of this product 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, DRY OR GREEN: Do not use this product on Adzuki beans, Cowpeas (Black-eyed beans, Black-eyed peas), Garbanzo beans, Lima beans, Mung beans, Soybeans or other flat-podded beans except Romano. Under abnormal weather conditions, stunting may occur on Gratiot, Michilite, Sanilac, Seafarer and Seaway varieties. For Small white beans or green beans grown on Coarse textured soil, do not exceed 3.5 pints of this product per acre per crop. For Irrigation (Dry beans, post-emergence), do not exceed 4.5 pints of this product per acre per crop. Do not exceed the maximum total of 7 pints of this product per acre per crop season.

BEFORE OR AT PLANTING

Pre-Plant (Flat-Planted): Apply and incorporate 3.5 pints of this product 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 3.5 pints of this product per acre pre-plant, or at planting. See “DIRECTIONS FOR USE”.

OR LAY-BY

Directed Application: At the time of the last cultivation, apply and incorporate 3.5 pints of this product 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.

OR

Irrigation Application (Dry Beans Only): Meter 3.5 to 4.5 pints of this product per acre into the irrigation water after clean cultivation. Apply before Bean pods start to form. Do not feed or pasture vines to livestock until 45 days after application.

TANK MIXTURES:

Tank Mixtures with This Product for Beans in Southwestern Region. Refer to “TANK MIXTURE” Section for Use Directions.	
Products	Comments
This Product/Treflan E.C. or Trifluralin 4EC	Green and Dry beans
This Product/Lasso 4-E	Dry beans only
This Product/Prowl 4-E, Pin-Dee 3.3 EC or Aquapen	Dry beans only
This Product/Sonalan E.C.	Dry beans only

CITRUS NURSERY STOCK AND YOUNG FIELD PLANTINGS (NON-BEARING GRAPEFRUIT AND ORANGE GROVES): After lining out, apply 3.5 to 7 pints of this product per acre as a directed spray to the soil. Incorporate with cultivation equipment, i.e., tree hoes and rotary hoes.

Use Restriction: Do not apply this product within 3 years of the tree bearing fruit.

COTTON: Non-Irrigated Areas Only

Application After Stand is Established: Apply 2.25 pints of this product 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 this product. Follow directions for use carefully to avoid crop injury.

PINE SEEDLING NURSERIES (Loblolly, Longleaf, Shortleaf, Slash): Apply and incorporate 7 pints per acre 14 days prior to seeding.

POTATOES, IRISH: Do not exceed 7 pints of this product per acre per crop.

Pre-Plant: Apply and incorporate 3.5 to 7 pints of this product per acre just before planting.

OR DRAG-OFF (COME UP, WEEDING TIME)

Incorporation: Apply and incorporate 3.5 to 7 pints of this product per acre. For nutsedge control, use the higher rate. The field must be first “dragged-off”, followed by the application and incorporation of this product. Use spike-tooth harrows or cultivation equipment for incorporation.

AND/OR

Lay-by

Incorporation: Apply and incorporate 3.5 to 7 pints of this product per acre after potato plants have emerged from the soil. Do not apply within 45 days of harvest.

OR

Irrigation: Meter up to 3.5 pints of this product per acre into the irrigation water after clean cultivation. Do not apply within 45 days of harvest.

TANK MIXTURES:

TANK MIXTURE WITH THIS PRODUCT FOR POTATOES IN SOUTHWESTERN REGION.

REFER TO “TANK MIXTURE” SECTION FOR USE DIRECTIONS.

PRODUCTS: This product/Matrix

SUGAR BEETS—POST-THINNING:

Irrigation Water: Meter 2.25 to 3.5 pints of this product per acre into the first irrigation applied after the last cultivation for the season.

OR

Incorporation: Apply and incorporate 2.25 pints of this product per acre after thinning and clean cultivation and incorporate to a depth of 2 to 3 inches.

SWEET POTATOES

Preplant: Apply and incorporate 2.25 pints of this product per acre on coarse textured soils or 3.5 pints per acre on medium and fine textured soils just before planting. Incorporate to maximum depth of 3 inches.

OR

Preplant–Bed-Over: Apply 1.75 pints of this product per acre on coarse textured soils or 2.25 pints per acre on medium and fine textured soils just before planting. Treat a band width equal to one-third 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

Preplant–Bed-Up: Apply 1.75 pints of this product per acre on coarse textured soils or 2.25 pints per acre on medium and fine textured soils just before planting. After preshaped beds have been dragged down, this product is applied broadcast. Soil is then shaped into beds with bed shaping equipment so that the undisturbed treated layer in the finished bed is 2 to 4 inches below the bed surface. Bed-up immediately after application.

OR

Postplant: Apply 8.5 pints of this product 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, this product should be applied prior to irrigation. Apply as a solid overall spray.

PACIFIC NORTHWEST REGION

DIRECTIONS FOR USE

Incorporation Directions

This product must be incorporated into the soil to prevent loss of the herbicide. Whenever possible, application and incorporation should be done in the same operation.

Soil Mixing (Incorporation) Directions:

For Semi-Arid Areas of Eastern WA, Eastern OR and ID Only: When application and incorporation are done in separate operations, this product must be incorporated the same day as application. Application must be made on a dry soil surface (at least one-half inch deep), free from dew and incidental moisture.

Delay Incorporation of Dry Bulk Fertilizers for Semi-Arid Areas of Eastern WA, Eastern OR and ID Only: The application and incorporation of dry bulk fertilizer impregnated with this product must be carried out on the same day. Application must be made on a dry soil surface (at least one-half inch deep), free from dew and incidental moisture.

Sprinkler Incorporation of This Product in the Semi-Arid Areas of Eastern WA, Eastern OR and ID Only: Surface apply this product after planting. The soil surface should be dry (at least one-half inch deep) and free from dew and incidental moisture. Incorporate using one-half to three-quarters' inch of water within 36 hours following application. The application and incorporation must be done within 5 days after the last tillage operation, since poor results will occur if weeds have germinated.

CROP USE INSTRUCTIONS

These instructions are given as the broadcast (overall) rate of this product 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 this product if grass or grain nurse crop is to be planted with the Legume. Do not use on White dutch clover. Apply and incorporate 2.25 to 4.25 pints of this product 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 2.25 to 4.5 pints of this product per acre into the irrigation water that is applied immediately after planting or during stand establishment. Applications made late Summer or early Fall, use 2.25 to 4.5 pints of this product. Applications made in the Spring or early Summer, use 2.25 to 3.5 pints of this product. 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. Do not apply within 14 days of harvesting or grazing Alfalfa.

*Alfalfa is sensitive to soil residues of atrazine. Do not use this product on Alfalfa if atrazine was applied within the previous 12 months.

AND/OR

ALFALFA (ESTABLISHED STANDS): Meter 2.25 to 3.5 pints of this product 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 2.25 to 3.5 pints of this product 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, DRY OR GREEN: Do not use this product on Adzuki beans, Cowpeas (Black-eyed beans, Black-eyed peas), Garbanzo beans, Lima beans, Mung beans or other flat-podded Beans except Romano. Under abnormal weather conditions, stunting may occur on Gratiot, Michilite, Sanilac, Seafarer and Seaway varieties. For Irrigation (Dry beans, postemergence), do not exceed 4.5 pints of this product per acre per crop. Do not exceed the maximum total of 9 pints of this product per acre per crop season.

PRE-PLANT OR AT PLANTING

Incorporation: Apply and incorporate 3.5 to 4.5 pints of this product 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 3.5 pints of this product per acre preplant, just before planting or at planting. See "DIRECTIONS FOR USE".

OR

Irrigation Application: Meter 3.5 to 4.5 pints of this product per acre into the irrigation water before or immediately after planting. Rotary hoe lightly during or shortly after emergence of the beans to break any crust which occurs.

AND/OR LAY-BY

Directed Application: At time of last cultivation for the season, apply and incorporate 3.5 to 4.5 pints of this product 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

Subsurface Application: Prior to application, a clean cultivation must be made for all existing weed growth to be destroyed. Apply 3.5 pints of this product per broadcast acre or in a band treatment (using 2 shanks per row 5.5 inches apart, centered on the drill row with rows 38 inches apart), use 1.75 pints per acre. See "DIRECTIONS FOR USE".

OR

Irrigation Application (Dry Beans Only): Meter 3.5 to 4.5 pints of this product per acre into the irrigation water after clean cultivation. Apply before Bean pods start to form. Do not feed or pasture vines to livestock until 45 days after application.

TANK MIXTURES:

Tank Mixtures with This Product for Beans in Pacific Northwest Region. Refer to "TANK MIXTURE" Section for Use Directions.	
Products	Comments
This Product/Treflan E.C. or Trifluralin 4EC	Green and Dry beans
This Product/Me-Too-Lachlor Herbicide	Dry beans only
This Product/Lasso 4-E	Dry beans only
This Product/Prowl 4-E, Pin-Dee 3.3 EC or Aquapen	Dry beans only
This Product/Sonalan E.C.	Dry beans only

POTATOES, IRISH: Do not exceed 7 pints of this product per acre per crop.

The use of a Dammer/Diker following application of this product will cause untreated soil to be brought to the surface and may reduce weed control.

Pre-Plant: Apply and incorporate just before planting, 3.5 to 7 pints of this product per acre; use 4.5 pints per acre for Quackgrass control and 7 pints per acre for Hairy nightshade control.

Drag-Off (Come up, Weeding time) Incorporation: Apply and incorporate 3.5 to 7 pints of this product per acre at drag-off. Use the higher rate for Nutsedge control. Use spiked-tooth harrows or cultivation equipment for incorporation.

Lay-By: Apply and incorporate 3.5 to 7 pints of this product 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 3.5 to 7 pints of this product per acre into the irrigation water after clean cultivation. Do not apply within 45 days of harvest.

TANK MIXTURES:

TANK MIXTURES WITH THIS PRODUCT FOR POTATOES IN PACIFIC NORTHWEST REGION.

REFER TO "TANK MIXTURE" SECTION FOR USE DIRECTIONS.

PRODUCTS: This Product/Metribuzin

This Product/Matrix

SAFFLOWER: Apply and incorporate 3.5 pints of this product per acre per crop.

SUGAR BEETS: Post-Emergence (After the First True Leaves Have Formed)

Do not exceed 3.5 pints of this product per acre per crop except for irrigation applications where 2 applications of 3.5 pints may be made.

Incorporation: Apply 3.5 pints of this product per acre after thinning and clean cultivation and incorporate to a depth of 2 to 3 inches.

OR

Irrigation Water: Meter 2.25 to 3.5 pints of this product per acre into the irrigation water after clean cultivation. Do not exceed 7 total pints of this product per acre per crop. Do not apply within 49 days of harvest.

OR

Subsurface Injection: Apply 3.5 pints of this product per broadcast acre or in band treatment (using 2 shanks per row 5.5 inches apart, centered on the drill row with rows 22 inches apart), use 1.75 pints of this product per acre. Prior to application, a clean cultivation must be made for all existing weed growth to be destroyed.

WALNUTS: After clean cultivation or prior to weed emergence on well-established trees, meter 3.5 pints of this product per acre into the irrigation water during the entire irrigation period.

WESTERN REGION

These instructions are given as the broadcast (overall) rate of this product 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.

In CA, refer to the supplemental label for additional mitigation measures for Handlers and Applicators.

ALFALFA*, BIRDSFOOT TREFOIL, CLOVERS, LESPEDEZA: Apply and incorporate 2.25 to 4.5 pints of this product 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.

Use Restrictions: Do not use this product if grass or grain nurse crop is to be planted with the Legume. Do not use on White dutch clover. Do not make more than one application per cutting in the Western region.

OR

ALFALFA*: Meter 2.25 to 4.5 pints of this product per acre into the irrigation water that is applied immediately after planting or during stand establishment. 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. Do not apply within 14 days of harvesting or grazing Alfalfa. Do not use this product pre-emergence on rill-irrigated (corrugated) Alfalfa.

*Alfalfa is sensitive to soil residues of atrazine. Do not use this product on Alfalfa if atrazine was applied within the previous 12 months.

AND/OR

ALFALFA (ESTABLISHED STANDS): Meter 2.25 to 3.5 pints of this product 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 of this product 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 2.25 to 3.5 pints of this product 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 2.5 to 3.5 pints of this product per acre into the irrigation water. Do not exceed 7 pints per acre. Do not apply within 16 days of harvest.

BEANS (DRY OR GREEN): Do not use this product on Adzuki beans, Cowpeas (Black-eyed beans, Black-eyed peas), Garbanzo beans, Lima beans, Mung beans, Soybeans or other flat-podded Beans except Romano. Under abnormal weather conditions, stunting may occur on Gratiot, Michilite, Sanilac, Seafarer and Seaway varieties. For Irrigation (Dry beans, post-emergence), do not exceed 4.5 pints of this product per acre per crop. Do not exceed the maximum total of 8 pints of this product per acre per crop season.

PRE-PLANT/AT PLANTING

Incorporation: Apply and incorporate 3.5 pints of this product 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 3.5 pints of this product per acre pre-plant, just before planting or at planting. See "DIRECTIONS FOR USE".

AND/OR LAY-BY

Directed Application: At time of last cultivation for the season, apply and incorporate 3.5 to 4.5 pints of this product per acre for Grass and Broadleaf weed 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

Subsurface Application: Prior to application, a clean cultivation must be made for all existing weed growth to be destroyed. Apply 3.5 pints of this product per broadcast acre, or in a band treatment (using 2 shanks per row 5.5 inches apart, centered on the drill row with rows 38 inches apart), use 1.75 pints per acre. See "DIRECTIONS FOR USE".

OR

Irrigation Application (Dry Beans Only): Meter 3.5 to 4.5 pints of this product per acre into the irrigation water after clean cultivation. Apply before Bean pods start to form. Do not feed or pasture vines to livestock until 45 days after application.

TANK MIXTURES:

Tank Mixtures with This Product for Beans in Western Region. Refer to "TANK MIXTURE" Section for Use Directions.	
Products	Comments
This Product/Treflan E.C. or Trifluralin 4EC	Green and Dry beans
This Product/Lasso 4-E	Dry beans only
This Product/Prowl 4-E, Pin-Dee 3.3 EC or Aquapen	Dry beans only
This Product/Sonalan E.C.	Dry beans only

CITRUS NURSERY STOCK AND YOUNG FIELD PLANTINGS (NON-BEARING GRAPEFRUIT, LEMON AND ORANGE GROVES): After lining out, apply 3.5 to 7 pints of this product per acre as a directed spray to the soil. Incorporate with cultivation equipment, i.e., tree hoes and rotary hoes.

Use Restriction: Do not apply this product within 3 years of the tree bearing fruit.

POTATOES, IRISH: Do not exceed 7 pints of this product per acre per crop.

Pre-Plant: Apply and incorporate 3.5 pints of this product per acre just before planting. **For Northern CA counties (Lassen, Modoc, Shasta, Siskiyou) only:** Apply and incorporate just before planting 3.5 to 7 pints of this product per acre; use 4.5 pints per acre for Quackgrass control and 7 pints per acre for Hairy nightshade control.

Drag-Off: Apply and incorporate 3.5 pints of this product per acre. The field must be first "dragged-off", then this product applied and incorporated. Use spiked-tooth harrows or cultivation equipment for incorporation.

AND/OR LAY-BY

Incorporation: Apply and incorporate 3.5 to 4.5 pints of this product 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 3.5 pints of this product per acre into the irrigation water after clean cultivation. Do not apply within 30 days of harvest.

TANK MIXTURES WITH THIS PRODUCT FOR POTATOES IN WESTERN REGION.

REFER TO "TANK MIXTURE" SECTION FOR USE DIRECTIONS.

PRODUCTS: This Product/Matrix

SAFFLOWER: Apply and incorporate 3.5 pints of this product per acre just before planting.

SUGAR BEETS: Post-Emergence (After First True Leaves Have Formed).

Incorporation: Apply 3.5 pints of this product per acre after thinning and clean cultivation, and incorporate to a depth of 2 to 3 inches.

OR

Irrigation Water: Meter 2.25 to 3.5 pints of this product per acre into the first irrigation applied after the last cultivation for the season. Two applications of 2.25 pints each should be made when Beets are to be carried in the ground longer than the normal growing season.

OR

Subsurface Injection: Apply 3.5 pints of this product per broadcast acre or in band treatment (using 2 shanks per row 5.5 inches apart, centered on the drill row), use 1.75 pints of this product per acre. Prior to application, a clean cultivation must be made for all existing weed growth to be destroyed. See "DIRECTIONS FOR USE".

TANK MIXTURES:

Tank Mixtures with This Product for Sugar beets in Western Region. Refer to "TANK MIXTURE" Section for Use Directions.	
Products	Comments
This Product/Treflan E.C. or Trifluralin 4EC	CA Only

TOMATOES: Lay-By Application

(Northern California Counties Only, i.e., Butte, Colusa, Contra Costa, Fresno, Glenn, Madera, Merced, Sacramento, San Joaquin, Solano, Stanislaus, Sutter, Yolo and Yuba)

For use on Tomatoes at least 3 to 4 inches tall; on Clay and Clay loam soils only. **DO NOT USE ON SANDY SOILS.**

Apply this product as a spray to the soil surface at a rate of 3.5 pints per 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 3.5 pints of this product per acre into the irrigation water during the entire irrigation period.

TANK MIX COMBINATIONS

For broader spectrum weed control and increased control of certain Broadleaf weeds, this product may be tank mixed with the following herbicides. Consult product labels and crop use directions for exact rates and application directions.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank-mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture.

THIS PRODUCT / TREFLAN E.C. or TRIFLURALIN 4EC HERBICIDE TANK MIX

For Weed Control in Beans (Dry and Green)—All Regions, Sugar Beets—CA Only and Sunflowers—Northern Region (MN, ND, SD Only)

A tank mix combination of this product plus Treflan E.C. or Trifluralin 4EC will give a broader spectrum of weed control than either product used separately.

DIRECTIONS FOR USE

Use Precautions: Read both this product and Treflan E.C. or Trifluralin 4EC labels carefully before using. Observe all precautions and limitations on labeling of both products.

Mixing: Add the labeled rates of both this product and Treflan E.C. or Trifluralin 4EC to the spray tank during filling and mix thoroughly. Apply in 10 to 40 gallons of water per acre.

Additional Weeds Controlled by the Combination of This Product and Treflan E.C.		
Annual Grasses	Annual Broadleaves	
Bromegrass Cheat Sprangletop	Carpetweed Kochia Knotweed Lambsquarters	Pigweeds (Spiny) Puncturevine Russian thistle Stinging nettle

INSTRUCTIONS

BEANS, DRY AND GREEN: The combination of this product and Treflan E.C. or Trifluralin 4EC should not be used on Adzuki beans, Cowpeas (Black-eyed beans, Black-eyed peas), Garbanzo beans, Lima beans, Mung beans, Soybeans and other flat-podded Beans except Romano. Make application before planting, using the rates listed in the following table.

Application Rates per Broadcast Acre			
This Product	Soil Type	Treflan E.C.	
		Organic Matter Content	Rate
2.5 to 3.5 pints*	Coarse (Sand)	0 to 2%	1 pint
	Coarse (Sand)	2 to 5%	1 to 1.5 pints
	Medium (Loam)	0 to 5%	1.5 pints
	Fine (Clay)	0 to 5%	1.5 pints
	All Soil Types	5.1 to 10%	1.5 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.

SUGAR BEETS (CA)—Apply as a broadcast spray over-the-top when plants are 2 to 6 inches tall, using the following rates.

Application Rates per Broadcast Acre		
This Product	Treflan E.C.	
	Soil Type	Rate
3.5 pints	Coarse (Sand)	1 pint
	Medium (Loam)	1.25 to 1.5 pints
	Fine (Clay)	1.5 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.

SUNFLOWERS (CO, KS, MN, ND, NE, SD)—Apply and incorporate just before planting, using the rates listed in the following table.

Application Rates per Broadcast Acre				
This Product	Soil Type	Treflan E.C.		
		Organic Matter Content	MN, Eastern Dakotas	CO, KS, NE, Western Dakotas
2.25 to 2.5 pints	Coarse (Sand)	0 to 2%	1 pint	1 pint
	Coarse (Sand)	2 to 5%	1.5 to 2 pints	1.5 to 2 pints
	Medium (Loam)	0 to 5%	1.5 pints	1.25 to 1.5 pints
	Fine (Clay)	0 to 5%	2 pints	1.5 pints
	All Soil Types	5.1 to 10%	2 pints	2 pints

THIS PRODUCT AND METRIBUZIN HERBICIDE TANK MIX (Sprinkler Application Only)

For Control of Weeds in Irish Potatoes—Pacific Northwest and Northern Regions

A tank mix combination of this product and Metribuzin (e.g., Me-Try-Buzin, Sencor® or Lexone®) can be applied to Irish potatoes to provide a broader spectrum of weed control than either product used separately.

Before using this product and Metribuzin (e.g., Me-Try-Buzin, Sencor, Lexone) as a tank mix, read both this product and Metribuzin (e.g., Me-Try-Buzin, Sencor, Lexone) labels carefully. Observe all precautions and limitations on labeling of both products.

Additional Weeds Controlled by the Combination of This Product and Metribuzin		
Annual Grasses	Annual Broadleaf Weeds	
Panicum, Fall Panicum, Texas Witchgrass	Cocklebur Cutleaf nightshade Jimsonweed Lambsquarters, Common Hairy nightshade	Pennsylvania Smartweed Prickly Sida Ragweed, Common Sicklepod Wild mustard

DIRECTIONS FOR USE

Sprinkler Application: Apply through irrigation sprinkler system after planting as a pre-emergence application or as an early post-emergence application up to 6-inch tall Potatoes. Use the appropriate rate of this product and Metribuzin (e.g., Me-Try-Buzin, Sencor, Lexone) as indicated in the following table. Pre-mix the desired rate of Metribuzin (e.g., Me-Try-Buzin, Sencor, Lexone) in the holding tank in 4 to 5 parts water to 1 part chemical. Add this product last. Meter the chemical-water mixture into the sprinkler system at a rate proportionate to the acreage to be covered. For center pivot systems, apply one-half to three-quarter inch of water per acre. For solid set, wheel lines or hand lines, moisten the soil surface lightly first, then apply the herbicide mixture in one-half to 1 inch of water per acre. For best results, the soil should be wetted to a depth of 3 to 4 inches.

APPLICATION RATES:

Use the appropriate rates of this product and Metribuzin (e.g., Me-Try-Buzin, Sencor, Lexone) as indicated in the following table:

Application Rates per Broadcast Acre		
Soil Type	Pints of This Product	Pounds of Active Ingredient of Metribuzin
COARSE SOILS Sand, Sandy loam, Loamy sand	3.5	0.25
FINE SOILS Loam, Silt loam, Sandy clay, Clay loam	4.5	0.25 to 0.5

Use this product plus Metribuzin (e.g., Me-Try-Buzin, Sencor, Lexone) post-emergence only on russeted or white-skinned Potato varieties that are not early maturing. In addition to early maturing, smooth-skinned white- or red- skinned varieties of Potatoes, certain varieties of Potatoes are sensitive to pre- or post-emergence applications of Me-Try-Buzin, Sencor or Lexone herbicides. Please refer to Me-Try-Buzin, Sencor and/or Lexone labels for more information/ precautions.

THIS PRODUCT / MATRIX HERBICIDE TANK MIX

For Weed Control in Irish Potatoes—All Regions

A tank mix combination of this product and Matrix herbicide can be applied pre-emergence or post-emergence to Irish potatoes. The tank mix combination can provide broader spectrum weed control than either product used alone. Before using this product and Matrix as a tank mix, read both this product and Matrix labels carefully. Observe all precautions and limitations noted on the labels of both products.

Additional Weeds Controlled by the Tank Mixture of This Product and Matrix	
Kochia Ladysthumb Mustard, Wild Smartweed, Pennsylvania Sunflower, Common	<i>Kochia scoparia</i> <i>Polygonum persicaria</i> <i>Sinapis arvensis</i> <i>Polygonum pensylvanicum</i> <i>Helianthus annus</i>

DIRECTIONS:

MIXING: Add the recommended rates of this product and Matrix to the spray tank while the agitator is running. Add this product last. Refer to the Matrix label for surfactant recommendations.

DRAG-OFF (PRE-EMERGENCE) APPLICATION: Apply and incorporate this product and Matrix tank mix combination at the rates specified in the following table. The field must be "dragged off", then this product and Matrix tank mix combination applied and incorporated. Refer to the label of this product for specific regional incorporation directions.

Application Rates per Broadcast Acre		
Regions	This Product	Matrix
Northern, Pacific Northwest, Southwestern	3.5 to 7 pints	1 to 1.5 ozs.
Southeastern, Western	3.5 pints	1 to 1.5 ozs.

SPRINKLER APPLICATION: Apply this product and Matrix tank mix combination through sprinkler irrigation after planting as a pre-emergence application or as an early post-emergence application at the rates specified in the following table. Refer to the label of this product and Matrix label for specific sprinkler irrigation directions.

Application Rates per Broadcast Acre		
Regions	This Product	Matrix
Northern, Southeastern, Southwestern, Western	3.5 pints	1 to 1.5 ozs.
Pacific Northwest	3.5 to 7 pints	1 to 1.5 ozs.

THIS PRODUCT / ME-TOO-LACHLOR HERBICIDE TANK MIX**For Weed Control in Dry Beans in the Northern and Pacific Northwest Regions**

A tank mix combination of this product plus Me-Too-Lachlor Herbicide will give better weed control than either product used separately.

DIRECTIONS FOR USE

Mixing: Add the recommended rates of both this product and Me-Too-Lachlor Herbicide to the spray tank during filling and mix thoroughly. Apply in 10 to 40 gallons of water per acre.

Soil Incorporation: Immediately after spraying, this product and Me-Too-Lachlor Herbicide combination must be incorporated thoroughly into the top 2 to 3 inches of soil.

Application Rates: Use the appropriate rates of this product and Me-Too-Lachlor Herbicide as indicated in the following table:

Application Rates per Broadcast Acre			
Soil Type	This Product	ME-TOO-LACHLOR HERBICIDE	
		Less than 3% Organic Matter	3% or Greater Organic Matter
Coarse (Sand)	3.5 to 4.5 pints	1.25 pints	1.33 pints
Medium (Loam)	3.5 to 4.5 pints	1.33 pints	1.67 pints
Fine (Clay)	3.5 to 4.5 pints	1.67 pints	2 pints

Planting: Seeding should be done as soon as possible after treatment to obtain a maximum period of weed control.

THIS PRODUCT / SONALAN® E.C. HERBICIDE TANK MIX**For Weed Control in Dry Beans—All Regions**

A tank mix combination of this product plus Sonalan E.C. will give a broader spectrum of weed control than either product used separately.

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

DIRECTIONS FOR USE

Mixing: Add the recommended rates of both this product and Sonalan E.C. to the spray tank during filling and mix thoroughly. Apply in 10 to 40 gallons of water per acre.

Soil Incorporation: The combination of this product and Sonalan E.C. must be incorporated thoroughly in the top 2 to 3 inches of soil immediately after spraying.

Application Rates: Use the appropriate rates of this product and Sonalan E.C. as indicated in the following table:

Application Rates per Broadcast Acre			
Soil Type	This Product (Pints)	Amount of Sonalan E.C.	
		General Weed Control (Pints)	Groundcherry* and Nightshade* (Pints)
Coarse	2.25 to 4.5	1.25 to 2	3 to 3.5
Medium		1.75 to 2.5	3.5 to 4
Fine		2.25 to 3	4 to 4.25

*Two incorporation passes are required for Groundcherry or Nightshade control.

This product/Sonalan E.C. tank mix more effectively controls the weeds listed for this product alone plus these additional weeds: Groundcherry (Lanceleaf and Wrights) and Wild buckwheat.

Planting: Seeding should be done as soon as possible after treatment to obtain a maximum period of weed control.

THIS PRODUCT / LASSO 4-E HERBICIDE TANK MIX

For Weed Control in Dry Beans in the Northern Region

A tank mix combination of this product plus Lasso 4-E will give a broader spectrum of weed control than either product used separately. In addition to the weeds listed on the label for this product alone, the following annual Broadleaf weeds can be controlled with a tank mix of this product/Lasso 4-E:

Annual Broadleaf Weeds	
Common ragweed Pennsylvania smartweed	<i>Ambrosia artemisiifolia</i> <i>Polygonum pensylvanicum</i>

DIRECTIONS FOR USE

Mixing: Add the recommended rates of both this product and Lasso 4-E to the spray tank during filling and mix thoroughly. Apply in 10 to 40 gallons of water per acre.

Soil Incorporation: Immediately after spraying, this product and Lasso 4-E combination must be incorporated thoroughly into the top 2 to 3 inches of soil.

Application Rates: Use 2 to 3 pints of this product plus 4 to 6 pints of Lasso 4-E. Use only the 4 pint rate of Lasso 4-E in Michigan. Use the higher rates of herbicides for heavy weed infestations and hard-to-control weeds.

Planting: Seeding should be done as soon as possible after treatment to obtain a maximum period of weed control.

THIS PRODUCT / RO-NEET 6-E HERBICIDE TANK MIX

For Pre-Plant Use in Sugar Beets—Northern Region (MI, MN, OH and the Red River Valley Area of ND Only)

DIRECTIONS FOR USE

The combination of this product and RO-NEET 6-E is a selective tank mix which controls weeds by interfering with normal germination and seedling development. This tank mixture can be applied only once per growing season. The combination of this product and RO-NEET 6-E may cause crop injury on very light Sandy soil and when used under adverse environmental conditions that weaken crop seedlings. A tank mixture of this product and RO-NEET 6-E will give equal to or greater control of the following listed weeds than either product used separately. This combination does not control established weeds.

Additional Weeds Controlled by the Tank Mixture of This Product and RO-NEET 6-E	
Green foxtail Lambsquarters, Common* Pigweed, Redroot* Purple nutsedge Wild oats Yellow foxtail Yellow nutsedge	<i>Setaria viridis</i> <i>Chenopodium album</i> <i>Amaranthus retroflexus</i> <i>Cyperus rotundus</i> <i>Avena fatua</i> <i>Setaria lutescens</i> <i>Cyperus esculentus</i>
*Partial control only (suppression)	

APPLICATION DIRECTIONS

During filling, pour the recommended rates of both this product and RO-NEET 6-E into a properly calibrated, low-pressure boom sprayer having good agitation and mix thoroughly. Apply the material uniformly in 10 to 50 gallons of water per acre. Check calibration frequently during application and observe the nozzles to ensure a uniform spray pattern. The soil should be well-worked prior to application and dry enough to permit thorough mixing with incorporation equipment.

Soil Incorporation: The tank mixture of this product and RO-NEET 6-E must be immediately incorporated (mixed) into the top 2 to 3 inches of soil after spraying to prevent loss of herbicides.

Spring* Pre-Plant Incorporated Application Rates** (Pints/Acre***)			
Soil Texture	Organic Matter %	This Product	RO-NEET 6-E
Coarse	3.0 to 4.5	1	Labeled rate
	>4.5	1 to 1.25	
Medium	3.0 to 4.5	1 to 1.25	Labeled rate
	>4.5	1 to 1.75	
Fine	3.0 to 4.5	1 to 1.5	Labeled rate
	>4.5	1 to 2	
*DO NOT USE THE TANK MIX IN THE SPRING IN MI OR OH. **Make only 1 application per growing season. Do not apply the combination of this product and RO-NEET 6-E in the Spring if either this combination or RO-NEET 6-E alone was applied in the Fall. ***Do not apply more than 5 pints of RO-NEET 6-E and this product combined regardless of the ratio.			

Fall Pre-Plant Incorporated Application Rates* (Pints/Acre**)			
Soil Texture	Organic Matter %	This Product	RO-NEET 6-E
Coarse	3.0 to 4.5	1	Labeled rate
	>4.5	1 to 1.25	
Medium	3.0 to 4.5	1 to 1.25	Labeled rate
	>4.5	1 to 1.5	
Fine	3.0 to 4.5	1 to 1.5	Labeled rate
	>4.5	1 to 2	

*Make only 1 application per growing season. Do not apply the combination of this product and RO-NEET 6-E combination in the Spring if either this combination or RO-NEET 6-E alone was applied in the Fall.
**Do not apply more than 6 pints of RO-NEET 6-E and this product combined regardless of the ratio.

THIS PRODUCT / PROWL 4-E, PIN-DEE 3.3. EC OR AQUAPEN HERBICIDE TANK MIX

For Weed Control in Dry Beans—All Regions

A tank mix combination of this product and Prowl 4-E, Pin-Dee 3.3 EC or Aquapen will give a broader spectrum of weed control than either product used separately. In addition to the weeds listed on the label for this product alone, the following annual Broadleaf weeds can be controlled with a tank mix of this product and Prowl 4-E, Pin-Dee 3.3 EC or Aquapen:

Annual Broadleaf Weeds	
Annual spurge	<i>Euphorbia</i> spp.
Kochia	<i>Kochia scoparia</i>

DIRECTIONS FOR USE

Apply this product/Prowl 4-E, Pin-Dee 3.3 EC or Aquapen tank mix as a pre-plant soil-incorporated treatment.

Mixing: Add the recommended rates of both this product and Prowl 4-E, Pin-Dee 3.3 EC or Aquapen to the spray tank during filling and mix thoroughly. Apply in 10 to 40 gallons of water per acre.

Soil Incorporation: Immediately after spraying, the combination of this product and Prowl 4-E, Pin-Dee 3.3 EC or Aquapen must be incorporated thoroughly into the top 2 to 3 inches of soil.

For semi-arid areas of Eastern WA, Eastern OR and ID only: When application and incorporation are done in separate operations, this product and Prowl 4-E, Pin-Dee 3.3 EC or Aquapen must be incorporated the same day as applied. Application must be made on a dry soil surface (at least one-half inch deep), and free from dew and incidental moisture.

Application Rates: Use the appropriate rates of this product and Prowl 4-E, Pin-Dee 3.3 EC or Aquapen as indicated in the following tables:

Application Rates per Broadcast Acre* Western, Southwestern and Southeastern Regions		
Soil Type	This Product	Prowl 4-E, PIN-DEE 3.3 EC or Aquapen
Coarse (Sand)	2.25 to 4.5 pints	Labeled rate
Medium (Loam)	3 to 4.5 pints	
Fine (Clay)	3 to 4.5 pints	

*Use the higher recommended rate of this product where Black nightshade, Hairy nightshade or Nutsedge are present.

Application Rates per Broadcast Acre* Northern Region			
Soil Type	Organic Matter	This Product	Prowl 4-E, PIN-DEE 3.3 EC or Aquapen
Coarse (Sand)	3% or less	2.5 to 4 pints	Labeled rate
	more than 3%	2.5 to 4 pints	
Medium (Loam)	3% or less	3 to 4.5 pints	
	more than 3%	3 to 4.5 pints	
Fine (Clay)	3% or less	3 to 4.5 pints	
	more than 3%	3 to 4.5 pints	

*Use the higher recommended rate of this product where Black nightshade, Hairy nightshade or Nutsedge are present.

Application Rates per Broadcast Acre* Pacific Northwest Region			
Soil Type	Organic Matter	This Product	Prowl 4-E, PIN-DEE 3.3 EC or Aquapen
Coarse (Sand)	3% or less	3.5 to 4.5 pints	Labeled rate
	more than 3%	3.5 to 4.5 pints	
Medium (Loam)	3% or less	3.5 to 4.5 pints	
	more than 3%	3.5 to 4.5 pints	
Fine (Clay)	3% or less	3.5 to 4.5 pints	
	more than 3%	3.5 to 4.5 pints	

*Use the higher recommended rate of this product where Black nightshade, Hairy nightshade or Nutsedge are present.

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 this product 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 this product 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 this product into the soil to a depth of 2 to 3 inches. Mix to a depth of 6 inches for nutsedge, 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 preplant broadcast (overall) applications.

THIS PRODUCT CAN BE USED 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 (<i>Vinca minor</i>) Sedum Strawberry (ornamental)
EVERGREEN AND DECIDUOUS TREES AND SHRUBS		
Azalea Berberis Boxwood Camellia Chamaecyparis Citrus (Nonbearing) Dogwood Euonymus Fir	Hemlock Holly (American and Japanese) Juniper Leucothoe Lilac Linden Magnolia Maple Oak	Pieris Pine Podocarpus Rhododendron Spruce Viburnum Yew (Texas)
Note: All flowering bulbs, Salvia, Phlox, Snap-dragon and ornamental Pepper are susceptible to injury from an application of this product.		

For Annual Weed Control – Use this product at the rate of 5.75 pints in 10 to 50 gallons of water per acre (2 fl. ozs. per 1,000 square feet).

For Quackgrass, Nutsedge 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 this product at the rate of 7 pints in 10 to 50 gallons of water per acre (2.5 fl. ozs. per 1,000 square feet).

For Mugwort (Chrysanthemumweed) Control in the Following Plants: Juniper, Japanese Holly, Ivy, Pachysandra, Petunias* – Use 17 pints of this product in 10 to 50 gallons of water per acre (6 fl. ozs. per 1,000 square feet). Mix thoroughly into the top 6 inches of soil. Apply 4 weeks before desired planting date.

*Not for use in California.

WHEN TO USE THIS PRODUCT

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 I

This Product with Fluid Fertilizers

The following procedure is suggested for determining whether this product may be combined with a specific fluid fertilizer for spray tank application.

Material Required:

1. This Product
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 1-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 ounces (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 next rate table).
3. Add this product 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 10 times.
5. Inspect the surface and body of the mixtures:
 - (a) Immediately after completing the jar inversions,
 - (b) After allowing the jars to stand quietly for 30 minutes,
 - (c) And then again after turning the jars upside down 10 times.

If a uniform mix cannot be made, the mixture should not be used. If either mixture remains uniform for 30 minutes, the combination may be used. Should either mixture separate after 30 minutes but readily remix uniformly with 10 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 non-dispersible oil, sludge or clumps of solids form in the mixtures, the combination should not be used.

Note: For some combinations, pre-mixing 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 this product. This technique can be tested in the small-scale jar test by pre-mixing the wettable powder in one-eighth (1.25) cup of water prior to addition to the pint of fluid fertilizer.

Rate Table for This Product and Adjuvant** with the Fluid Fertilizer

Gallons of Fluid Fertilizer to be Applied per Acre	ml or Teaspoon of This Product to be Added to 1 Pint of Fertilizer	
	This Product	
	ml	Tsp.
10	7	1.33
15	4	0.75
20	3	0.66
25	3	0.66
30	2	0.5
40	2	0.5

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

**Two (2) ml or one-half (0.5) 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

This Product Impregnation on Dry Bulk Fertilizers

Use Precautions: This product 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 this product mixture.

This product 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 supplementary literature instructions and label recommendations for this product regarding rates per acre, soil incorporation, application, precautions, general use precautions and other directions must be followed.

Test results have shown that this product on bulk dry fertilizers gives weed control equal to this product applied as a spray in water or liquid fertilizer. However, uniform impregnation of this product 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 this product at the recommended rate must be applied per acre.

For impregnation of this product on dry fertilizers, use a closed rotary-drum mixer or 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.

This product 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 this product 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.

Micro-Cel™ E (Manville Sales Corp.) is the recommended absorbent powder. It should be added separately and uniformly to the fertilizer mixture of this product in a quantity that is sufficient to provide a suitably free-flowing mixture. Generally less than 2% by weight of Micro-Cel E is required.

The amount of this product 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 this product actually contained in the mixture applied to the soil represents the correct rate of use.

Bulk fertilizer impregnated with this product 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 this product lost via volatilization.

Physical Data of This Product

Specific Gravity (20/20°C): 0.954 (typical) Pounds

Per Gallon (20°C): 7.94 (typical)

Flashpoint: 190°F (Tag, Closed Cup)

Viscosity: Sprayable down to -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
Super-phosphate (triple)	0	46	0
Urea	45	0	0
Ammonium Phosphate-sulfate	16	20	0
11-48-0	11	48	0

Note: K-Mag has been shown to be compatible with this product and is approved for use.

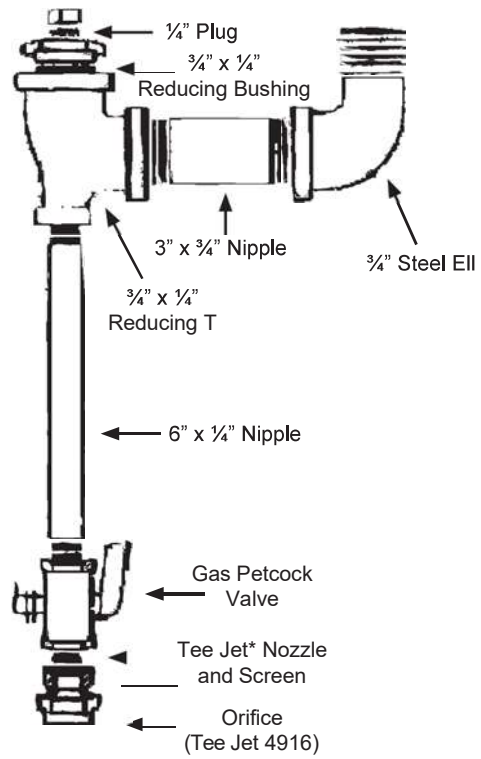
Rate Chart for the Impregnation of Dry Bulk Fertilizers with This Product			
Fertilizer Rate per Acre	This Product Rate per Acre		
	3.5 Pints per Acre	4.5 Pints per Acre	7 Pints per Acre
200 lbs.	17.5 qts./ton	22.25 qts./ton	35 qts./ton
250 lbs.	14 qts./ton	18 qts./ton	28 qts./ton
300 lbs.	11.66 qts./ton	15 qts./ton	23.33 qts./ton
350 lbs.	10 qts./ton	12.875 qts./ton	20 qts./ton
400 lbs.	8.75 qts./ton	11.25 qts./ton	17.2 qts./ton
450 lbs.	7.75 qts./ton	10 qts./ton	15.2 qts./ton
500 lbs.	7 qts./ton	9 qts./ton	14 qts./ton
550 lbs.	6.33 qts./ton	8.2 qts./ton	12.66 qts./ton
600 lbs.	5.875 qts./ton	7.5 qts./ton	11.75 qts./ton
650 lbs.	5.4 qts./ton	7 qts./ton	10.8 qts./ton
700 lbs.	5 qts./ton	6.4 qts./ton	10 qts./ton

APPENDIX III

Tee Jet Orifice	Flow Rates for This Product Using Various Tee Jet* Orifices (4916)**			
	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	12.965
.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 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 0.14 and a 200-mesh screen on all others.



STORAGE AND DISPOSAL

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

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

PESTICIDE DISPOSAL: To avoid waste, use all materials in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often, such programs are run by State or local governments or by industry).

CONTAINER HANDLING:

Nonrefillable Container (rigid material; ≤ 5 gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container one-fourth full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Nonrefillable Container (rigid material; > 5 gallons up to < 250 gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Refillable Containers (≥ 250 gallons & Bulk): Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

WARRANTY —CONDITIONS OF SALE

OUR DIRECTIONS FOR USE of this product are based upon tests believe reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Manufacturer and is accepted as such by the Buyer.

Manufactured By:



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