



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

July 17, 2024

Lisa Mathias
Product Registration Specialist
Winfield Solutions, LLC
P.O. Box 64589, MS 5705
Saint Paul, MN 55164

Subject: Notification per PRN 98-10 – Addition of ABN and optional brackets
Product Name: Trust
EPA Registration Number: 1381-261
Application Date: November 3, 2023
Case Number: 00489902

Dear Lisa Mathias:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “NOTIFICATION” and placed in our records.

The alternate brand name, “Trust Selective Herbicide” has been added to the product record.

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 (FIFRA) 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) lists 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.

If you have any questions, please contact Margaret Golembiewski at 202-566-0304 or at golembiewski.margaret@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kable Bo Davis', enclosed within a hand-drawn oval.

Kable Bo Davis
Senior Regulatory Specialist
Office of Pesticide Programs
Registration Division, Immediate Office

Enclosure

Trust®

[ABN: Trust® Selective Herbicide]

A selective herbicide [For] for pre-emergence control of annual grasses and broadleaf weeds.

ACTIVE INGREDIENT:

Trifluralin (a,a,a-trifluoro-2,6-dinitro-N, N-dipropyl-*p*-toluidine)*44.5%

OTHER INGREDIENTS:** 55.5%

TOTAL..... 100.0%

*This product contains 4 pounds of Trifluralin per gallon.

**Contains petroleum distillates.

KEEP OUT OF REACH OF CHILDREN CAUTION

See booklet for additional PRECAUTIONARY STATEMENTS, COMPLETE DIRECTIONS FOR USE, WARRANTY DISCLAIMER, AND LIMITATION OF LIABILITY.

FIRST AID

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Do not give any liquid to the person.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious or convulsing person.

IF ON SKIN OR CLOTHING:

- 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.

IF IN EYES:

- 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.

IF INHALED:

- 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of medical emergency, call toll free 1-877-424-7452.

NOTE TO PHYSICIAN: This product contains an aromatic hydrocarbon and can be extremely harmful if swallowed. Aspiration of this product may produce a severe pneumonitis. Stomach lavage with a cuffed endotracheal tube in place and immediate administration of activated charcoal, 6 to 8 heaping teaspoonfuls with water, should be considered. Treatment is otherwise symptomatic and supportive.

EPA Reg. No.: 1381-261

EPA Est No.: _____

Distributed By:

Winfield Solutions, LLC
P.O. Box 64589
St. Paul, MN 55164-0589

NOTIFICATION

1381-261

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

07/17/2024

NET CONTENTS: _____

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeve shirt and long pants
- Socks and shoes
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, or neoprene rubber ≥ 14 mils.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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 CONTROL STATEMENTS

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)] the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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 pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oysters. Do not apply in a manner which will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Do not contaminate water when disposing of equipment washwaters. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all "Directions for Use" before applying this product. 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 and Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only 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 exemptions 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 the 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, socks plus shoes and chemical resistant footwear and chemical resistant gloves made of barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils.

PRODUCT INFORMATION

Trust is a selective herbicide is for the pre-emergence control of annual grasses and broadleaf weeds. This product may be applied in liquid sprays of water or liquid fertilizer or impregnated on dry bulk fertilizer. To prevent loss of herbicidal activity, this product must be soil incorporated within 24 hours after application. This product may be tank-mixed or followed by overlay or postemergence treatment with other herbicides to improve the spectrum of weeds controlled. This product controls weeds by disrupting growth processes during germination. This product does not control established weeds.

Precautions:

- Applied according to directions and under normal growing conditions, this product will not harm the treated crop.
- Over application may result in crop injury or rotational crop damage from soil residue.
- Uneven application or improper incorporation of this product can result in erratic weed control or crop injury.
- Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration or drought may weaken crop seedlings and increase the possibility of damage from this product. Under these conditions, delayed crop development or reduced yields may result.
- Do not apply this product to soils that are wet or are subjected to prolonged periods of flooding as poor weed control may result.

Restrictions:

- Do not use this product on any crop grown in Pecos County or Reeves County, TX.
- Do not use in MT.

Chemigation: This product may be applied by chemigation on certain crops. See instructions for chemigation in the "CROPS" section of this label.

RESISTANCE MANAGEMENT RECOMMENDATIONS

Trifluralin	Group	3	Herbicide
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For resistance management, this product is a Group 3 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 3 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 3 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.
- Contacting your local extension specialist, certified crop advisors, and/or Winfield Solutions, LLC representative for pesticide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.
- For further information or to report suspected resistance, contact your Winfield Solutions, LLC representative.

SPRAY DRIFT INFORMATION

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outermost nozzles on the boom must not exceed three-fourths the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where States have more stringent regulations, they must be observed. The applicator must be familiar with and take into account the information covered in the *"AERIAL DRIFT REDUCTION ADVISORY INFORMATION"* section of this label.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly or under unfavorable environmental conditions (see “Wind”, “Temperature and Humidity” and “Temperature Inversions”).

Controlling the Droplet Size

- **Volume** – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** – Do not exceed the nozzle manufacturer’s recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** – Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation** – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length

For some use patterns, reducing the effective boom length to less than three-fourths of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height

Applications must not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, ext.)

Wind

Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application must be avoided below 2 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Applications must not occur during a local, low level temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are

common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversion can also be identified 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.

Sensitive Areas

The pesticide must only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

MIXING INSTRUCTIONS

This Product Alone: This product may be mixed with water or most liquid fertilizer materials. Prior to mixing this product in liquid fertilizer, refer to the label section entitled *“Testing for Compatibility in Liquid Fertilizers”* for testing procedures to determine compatibility with the liquid fertilizer product to be used. The combination of this product with solution and suspension-type fertilizers provides weed and grass control equal to water sprays.

Fill spray tank 1/3 to 1/2 full with clean water or liquid fertilizer. Start agitation. Add the correct amount of this product and continue agitation while filling tank to required spray volume.

Restriction: Do not allow water or spray mixture to back siphon into a water source.

This Product in Tank-mix: This product may be tank-mixed with other products and applied with water or most liquid fertilizer materials. Prior to mixing tank-mixes containing this product with liquid fertilizer, refer to the label section entitled *“Testing for Compatibility in Liquid Fertilizers”* for testing procedures to determine compatibility with the liquid fertilizer product to be used.

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.

Vigorous, continuous agitation during mixing, filling and throughout application is required for all tank-mixes. Sparger pipe agitators generally provide the most effective agitation in spray tanks. To prevent foaming in the spray tank, avoid stirring or splashing air into the spray mixture. To prevent foaming during filling, keep the end of the fill pipe below the surface of the liquid in the spray tank.

Mixing Order: Fill the spray tank to 1/4 to 1/3 of the total spray volume required. Start agitation. Add different formulation types in the order indicated below, allowing time for complete mixing and dispersion after addition of each product. Allow extra mixing and dispersion time for dry flowable products.

Add different formulation types in the following order: Dry Flowables (DF); Wettable Powders (WP); Aqueous Suspensions (AS); Flowables (F); and Liquids (L).

Maintain agitation and fill spray tank to 3/4 of total spray volume. Add this product and other emulsifiable concentrates (EC) and any solutions (S).

Finish filling the spray tank. Maintain continuous agitation during mixing, final filling and throughout application. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled material must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose. Settled materials may be more difficult to resuspend than when originally mixed.

Restriction: Do not allow water or spray mixture to back siphon into a water source.

Pre-mixing: Dry and flowable formulations may be premixed with water (slurried) and added to the spray tank through a 20 to 35 mesh screen. This procedure assures good initial dispersion of these products in liquid fertilizer or water. Line screen in the spray tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

Compatibility Test for Tank-mix Partners Including Liquid Fertilizers: A jar test is recommended prior to tank-mixing this product with other pesticides or liquid fertilizer to ensure compatibility. Use a clear glass quart jar with lid and mix the tank-mix ingredients in their relative proportions and in the order indicated in the tank-mixing section above. Invert the jar containing the mixture several times and observe the mixture for approximately 30 minutes. If components of the mixture separate readily, a compatibility agent may be helpful in maintaining the stability of the spray mixture. If the mixture balls up, forms flakes, sludges, jells, oily films or layers, or other precipitates, the components of the mixture are not compatible and full-scale tank-mixing should not be attempted.

Note: Compliance with State regulations for liquid fertilizer mixing, registration, labeling, and application are the responsibility of the individual and/or company offering the fertilizer or chemical mixture for sale.

CROP ROTATION INTERVALS

SUGAR BEETS, RED BEETS AND SPINACH (AZ, CA, CO, ID, NM, NV, OR, UT, WA and WY): Do not plant red beets, sugar beets or spinach for 12 months after a Spring application or 14 months after a fall application of this product. Plowing to a depth of 12 inches prior to planting these crops will reduce the possibility of crop injury. If land has not been irrigated, do not plant these crops for 18 months after a spring application or 20 months after a fall application of this product.

All other areas: Do not plant red beets, sugar beets and spinach for 12 months after a spring application or 14 months after a Fall application. Before planting sugar beets, moldboard plow to a depth of 12 inches to reduce the possibility of crop injury.

PROSO MILLET, CORN, SORGHUM (MILO), OATS AND ANNUAL OR PERENNIAL GRASS CROPS OR GRASS MIXTURES (AZ, CA, CO, ID, NM, NV, OR, UT, WA and WY): Unless crop injury is acceptable, delay planting proso millet, corn, sorghum (milo), oats and annual or perennial grass crops or grass mixtures for 12 months after a spring application or 14 months after a fall application of this product. If land has not been irrigated, delay planting these crops for 18 months after a Spring application or 20 months after a fall application. Moldboard plowing to a depth of 12 inches before planting these crops will reduce the possibility of crop injury.

(MN, ND and SD): Unless crop injury is acceptable, delay planting proso millet, sorghum (milo), oats and annual or perennial grass crops or grass mixtures for 18 months after a spring application or 21 months after a fall application of this product.

Portions of KS, NE, OK and TX that receive less than 20 inches of rainfall and irrigation to produce a crop: Unless crop injury is acceptable, delay planting proso millet, sorghum (milo), oats and annual or perennial grass crops or grass mixtures for 18 months after an application of this product. In sorghum, cool, wet weather conditions during early growth stages may increase the possibility of crop injury.

In other areas receiving more than 20 inches of rainfall and irrigation: Delay planting these crops for 12 months after a spring application or 14 months after a fall application of this product.

Rotation Crops Other Than Those Specifically Addressed Above:

For all other crops, with the exception of those to which Trust may be applied as a preplant soil incorporated treatment, delay planting for 5 months after an application of Trust.

SOIL TEXTURE GUIDE FOR APPLICATION RATES

Rates specified for incorporated treatments of this product are based on “Soil Texture Class” (*Coarse, Medium or Fine*) and soil organic matter content. A *Fine textured soil* (e.g., *Clay loam*) will require a higher application rate than a *Coarse textured soil* (e.g., *Loamy sand*). In the table on the following page, find the “Soil Texture Class” (*Coarse, Medium or Fine*) corresponding to the “Soil Texture to be Treated”. Choose the proper rate for each application based on the “Soil Texture Class” and specific crop directions. Do not exceed the specified rates.

Soil Texture Class	Soil Texture to be Treated
Course (Light) soils	Sand, Loamy sand, Sandy loam
Medium soils	Loam, Silty clay loam ¹ , Silt loam, Silt, Sandy clay loam ¹
Fine (Heavy) soils	Clay, Clay loam, Silty clay loam ¹ , Silty clay, Sandy clay, Sandy clay loam ¹
¹ Silty clay loam and Sandy clay loam soils are transitional soils and may be classified as either Medium or Fine textured soils. If Silty clay loam or Sandy clay loam soils are predominantly Sand or Silt, they are usually classified as Medium textured soils. If they are predominantly Clay, they are usually classified as Fine textured soils.	

APPLICATION METHODS

As spray volume decreases, the importance of accurate calibration and uniform application increases. Check calibration and uniformity of spray application daily. To avoid spray drift, do not apply when winds are gusting or when wind speed is greater than 15 mph.

Ground Broadcast Application

Apply this product in 5 to 40 gallons of liquid carrier per acre (broadcast basis), using any properly calibrated, low pressure herbicide sprayer that will apply the spray uniformly. The carrier may be water or liquid fertilizer as specified for the crop to be treated in the “CROPS” section of this label. For band application, adjust herbicide rate and spray volume in proportion to the band width and row width treated.

Aerial Broadcast Application

Apply this product in 5 to 10 gallons of water per acre. Adjust pump pressure, nozzle arrangements, speed and application height to provide uniform application to the soil surface. Use swath markers or flaggers to assure proper swath width interval.

Application with Dry Bulk Fertilizer

Dry bulk fertilizers impregnated or coated with this product may be applied as a pre-plant incorporated treatment on listed crops. All label directions for this product regarding application rates, incorporation directions, special instructions, precautions and restrictions should be followed. Read and follow all label instructions below concerning use of this product with dry bulk fertilizer. Properly applied dry bulk fertilizers impregnated with this product provides weed and grass control equal to water sprays. Use the following formula to calculate the amount of this product required to impregnate a ton of dry bulk fertilizer.

Pints of This Product Per Acre	X	$\frac{1000}{\text{Lbs. of Fertilizer Per Acre}}$	=	Quarts of This Product Per Ton of Fertilizer
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Limitations: Apply a minimum of 200 pounds per acre of dry fertilizer impregnated with this product at the specified broadcast rate per acre. Any commonly used dry fertilizer can be used for impregnation of this product except coated ammonium nitrate and pure limestone. These materials will not absorb the herbicide. Blends containing mixtures of these materials can be impregnated.

Impregnation: Use any closed drum, belt, ribbon or other commonly used dry bulk fertilizer blender. Nozzles used to apply this product to dry bulk fertilizer should be placed to provide uniform spray coverage.

Application and Incorporation: Spread the fertilizer/chemical mixture with properly calibrated application equipment. Be certain the material is applied uniformly to the soil surface. This product must be incorporated 2 times when impregnated on dry bulk fertilizer. The first incorporation should occur within 24 hours after application. The second incorporation should be delayed 3 to 5 days after the first and be completed prior to planting.

Compliance with State Regulations: Compliance with State regulations relating to dry bulk fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company offering the fertilizer or chemical mixture for sale.

Application by Chemigation

This product may be applied through properly equipped chemigation systems for weed control in certain crops as specified in the “CROPS” section of this label. Read and follow all label instructions outlined below concerning chemigation before applying this product by this method.

Chemigation Directions: Apply this product only through continuously moving center pivot, lateral move or end tow sprinkler irrigation systems equipped for chemigation. Do not apply this product through any other type of irrigation system.

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

If you have any questions about calibration, you should contact State extension 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.

Sprinkler Chemigation Directions: The following directions must be followed for all recommended sprinkler irrigation systems (center pivot, lateral move or end tow):

1. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back-flow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. 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.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. 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 that pesticide distribution is adversely affected.

6. 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 interlocked.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.
8. Inject this product continuously throughout the chemigation period. Check the chemigation metering pump periodically during application to ensure proper operation.
9. The injection metering pump must be calibrated as specified by the manufacturer.
10. Pesticide injection hoses which connect chemigation metering equipment to the sprinkler irrigation system should be of braided reinforced construction with an internal tube made of nylon, cross-linked polyethylene or high density polyethylene.
11. This product may cause staining of plastic hoses and tanks.
12. Apply this product in sprinkler irrigation equal to one-half to one inch of water.
13. During chemigation, maintain agitation in supply tank at all times.

Chemigation System Calibration (Sample calculation for use of this product in a chemigation system): Assume, in this example, 133 acres are to be covered by a chemigation treatment. Product required, assuming 1.5 pints per acre is 199.5 pints (133 acres X 1.5 pts. per are = 199.5 pts. = 25 gals.). Add 25 gallons of product directly to the injection supply tank. Adjust the injection system to deliver 25 gallons during the time required to apply 1 inch of water to 133 acres. If the irrigation system requires 20 hours to apply 1 inch of water to 133 acres, the injection rate is 1.25 gallons per hour and is calculated as follows:

$25 \text{ gals.} \div 20 \text{ hours} = 1.25 \text{ gals. per hour}$ $1.25 \text{ gals. per hour} = 160 \text{ fl. ozs. per hour}$
<p>Proper calibration requires the injection pump to be adjusted to deliver 2.7 fl. ozs. per minute and is calculated as follows:</p> $160 \text{ fl. ozs. per hour} \div 60 \text{ minutes per hour} = 2.7 \text{ fl. ozs. per minute.}$

Chemigation Mixing Directions:

Undiluted: When used alone, the injection of undiluted product is recommended in chemigation systems. For undiluted use, the metering pump, supply tank and any associated equipment must be thoroughly clean and dry before this product is added to the system for injection. When injecting undiluted product, maintain continuous agitation in the supply tank.

Diluted: This product may be diluted if required to achieve accurate calibration for existing equipment. Partially fill the injection supply tank with a volume of water equal to the amount of this product required (Do not add water to this product). Start agitation. Add the required amount of this product to water in the supply tank and continue mixing while filling the tank to the final volume required by the injection pump calibration. When injecting diluted product, maintain continuous agitation in supply tank.

APPLICATION TIMING

Spring Application: Apply and incorporate this product any time after January 1 when soil can be worked and is in a condition which allows thorough mixing to ensure uniform incorporation. See “CROPS” section for application timing and directions for specified crops.

Fall Application: Fall application can be used for all crops for which this product is specified as a pre-plant incorporated treatment. Refer to “CROPS” section for any crop specific fall application instructions. In the States of CA, MN, ND and SD apply and incorporate this product any time between September 1 and December 31. In all other States, fall apply this product between October 15 and December 31. Ground may be bedded up over winter. On bedded ground, reduce beds to desired height before planting, by moving some treated soil from beds into furrows. Where soil is left flat over winter, take care not to turn up untreated soil during spring bedding operations. Destroy established weeds during seedbed preparation. Destroy weeds established in furrows as a

result of exposing untreated soil before planting. Do not make fall application on fields which remain wet or subject to periods of flooding.

Pre-emergence Application Immediately After Planting: Apply and incorporate this product immediately after planting and prior to crop germination. Adjust incorporation equipment so as not to disturb planted seed. Refer to the “CROPS” section of this label for crop specific instructions.

Post-emergence and Lay-by Application: Apply and incorporate this product at the specified rate to the established crop at or before last cultivation. Required pre-harvest intervals for treatments with this product for certain crops are specified in the “CROPS” section of this label. Crop cover may prevent uniform soil coverage from over-the-top sprays. To avoid this problem, use drop nozzles or directed sprays to achieve uniform soil coverage.

INCORPORATION DIRECTIONS

Soil Preparation and Incorporation: Ground cover, such as crop residues or existing weeds, can interfere with uniform soil incorporation of this product. A manageable level of ground cover will allow uniform incorporation into the top 2 to 3 inches of soil. If ground cover and crop residues are excessive, reduce by appropriate soil tillage prior to application. Break up clods using tillage equipment prior to application of this product. This product must be incorporated within 24 hours after application. With most equipment and methods of application, a second incorporation is required and may occur any time before planting. Make the second incorporation in a different direction. To avoid bringing untreated soil to the surface, the second application must not be deeper than the first.

Soil Conditions: Ensure that the soil surface is smooth enough to allow for uniform application and efficient incorporation of this product. Apply when soil moisture is sufficient to allow the breakup of large clods and uniform mixing during the incorporation process. Soil compaction and/or non-uniform incorporation may occur if soil is excessively moist.

Incorporation in Bedded Culture: In bedded culture, incorporate this product to a depth of 2 to 3 inches in the final seedbed.

Application Prior to Bedding: Apply this product and incorporate one time with recommended equipment. The bedding operation serves as the second incorporation. Do not expose untreated soil during post-bedding operations such as planting since removal of treated soil during planting can allow weed germination and establishment in the drill row.

Application After Bedding: Knock off beds to planting height before applying this product. Apply and incorporate this product with recommended equipment that will conform to the shape of the bed. Do not expose untreated soil.

Cultivation After Planting: Treated crops may be shallowly cultivated without reducing the weed control activity of this product. Limit depth of cultivation to the zone of treated soil (2 to 3 inches) to avoid moving untreated soil to the surface. Exposure of untreated soil may cause loss of weed control.

INCORPORATION EQUIPMENT

Use incorporation equipment capable of mixing this product uniformly into the top 2 to 3 inches of the final seedbed. Use of inappropriate equipment or improper use of recommended equipment may result in erratic weed control and/or crop injury. Incorporation equipment such as a tandem disc will mix this product approximately half as deep as the equipment is set to operate. For example, a disc set to cut four inches deep will mix most of this product within the top 2 inches of soil. Any recommended incorporation implement may be used alone or in

combination with any other recommended implement. Two incorporation passes are required unless otherwise specified.

Tandem Disc: Set equipment to cut 4 to 6 inches deep and operate at 4 to 6 mph.

Field Cultivator: Set equipment to cut 3 to 4 inches deep and operate at a minimum of 5 mph. A field cultivator is defined as an implement with 3 to 4 rows of sweeps, spaced at intervals of 7 inches or less and staggered so that no soil is left unturned. Chisel points must not be used.

Combination Seedbed Conditioners: These implements are defined as two or more tillage devices combined to operate as a single tillage unit. For example, 2 or 3 rows of field cultivator C- or S- shaped shanks with an effective sweep spacing of 6 to 9 inches, (staggered so that no soil is left unturned), followed by a spike-tooth or flexline harrow, followed by a ground driven reel or basket. Set combination implements to cut 3 to 4 inches deep and operated at a minimum of 6 mph. This product can be incorporated with one pass when using a combination seedbed conditioner. Two incorporations are required under conditions which prevent optimum soil mixing such as excessive trash, roughness, high clay content or soil moisture.

Rolling Cultivator: Set equipment to cut 2 to 4 inches deep and operate at 6 to 8 mph. Generally, rolling cultivators are adequate for use only on *Coarse* and *Medium soils*. In sugarcane, the rolling cultivator may be used on *Fine textured soils*.

Bed Conditioner (Do-All): Set equipment to cut 2 to 4 inches deep and operate at 4 to 6 mph. One incorporation pass is adequate in bedded culture, while two incorporation passes are required in flat planted culture. The do-all should be used only on *Coarse* and *Medium textured soils*.

Mulch Treaded and other similar Disc-type Implements: Set equipment to cut 3 to 4 inches deep and operate at 5 to 8 mph.

Other Equipment: Other implements including the flexible fine-tooth harrow (Flexline or Melroe), are recommended, but only for certain uses defined in the “*CROPS*” section this label.

Conservation Tillage Practices: In reduced or minimum tillage situations, fall or spring application and incorporation of this product may be combined with tillage operations. The first incorporation may utilize equipment such as a tandem disc, combination implement or bedding equipment that provides good soil mixing but leaves a maximum amount of crop residue on the soil surface. The second incorporation may be accomplished with tillage equipment that provides uniform soil mixing used in conjunction with no-till planters. See specific directions for reduced or conservation tillage situations for cotton and soybeans in the “*CROPS*” section.

Single Pass Incorporation Option

This product may be incorporated in a single pass if incorporation conditions allow for thorough and uniform mixing into the top 2 to 3 inches of the final seedbed. Thorough and uniform incorporation may be achieved if the soil at the time of incorporations is of good tilth with moderate moisture, and is relatively free of clods and crop residue. **The following types of equipment can be used to obtain thorough and uniform soil mixing from a single incorporation pass:**

Finishing disc with disc blades no greater than 22 inches in diameter, spaced no more than 7.5 inches apart. Operate at 4 to 6 mph. Best results are obtained when the disc is equipped with harrow, reel, or basket attachments.

Field Cultivator: Set equipment to cut 3 to 4 inches deep and operate at a minimum of 5 mph. A field cultivator is defined as an implement with 3 to 4 rows of sweeps, spaced at intervals of 7 inches or less with sweeps on

successive rows staggered so that no soil is left unturned. Chisel points must not be used. Best results are obtained when the field cultivator is equipped with harrow, reel, or basket attachments.

Combination Implements: These implements are defined as two or more tillage devices combined to operate as a single tillage unit. For example, 2 to 3 rows of field cultivator C-or S-shaped shanks with successive rows of sweeps staggered so that no soil is left unturned, followed by a spike-tooth or flextime harrow, followed by ground driven reel, basket or incorporator wheels. Set combination implements to cut 3 to 4 inches deep and operated at a minimum of 6 mph. Two incorporations are recommended under conditions which prevent optimum soil mixing, such as excessive surface residue, roughness, high clay content, or soil that is too wet or too dry. Combination tools can also be composed of 2 rows of wide crown sweeps that overlap so that the roots of all weeds and plants are severed. Follow this by 2 gangs of rotating spoked wheels that thoroughly mix this product into the top 2 to 3 inches of the final seedbed.

P.T.O. Driven Equipment (tillers, cultivators, hoes): Adjust equipment to incorporate this product into the top 2 to 3 inches of the final seedbed with rotors spaced to provide a clean sweep of the soil. P.T.O. equipment should not be operated more than 4 mph.

WEEDS CONTROLLED BY THIS PRODUCT

Grass Weeds	
Common Name	Scientific Name
Annual bluegrass	<i>Poa annua</i>
Barnyardgrass (Watergrass)	<i>Echinochloa crus-galli</i>
Brachiaria (Signalgrass)	<i>Brachiaria spp.</i>
Bromegrass (Cheatgrass, Downy brome)	<i>Bromus tectorum</i>
Cheat (Chess)	<i>Bromus secalinus</i>
Crabgrass (Large crabgrass, Smooth crabgrass)	<i>Digitaria spp.</i>
Foxtail (Bottlegrass, Bristlegrass, Giant foxtail, Green foxtail, Foxtail millet, Pigeongrass, Robust foxtail, Yellow foxtail)	<i>Setaria spp.</i>
Guineagrass ¹	<i>Panicum maximum</i>
Itchgrass (Raoulgrass)	<i>Rottboellia cochinchinensis</i>
Johnsongrass (from seed) (rhizome) ²	<i>Sorghum halepense</i>
Junglerice	<i>Echinochloa colonum</i>
Oats, Wild ³	<i>Avena fatua</i>
Panicum (Fall panicum, Spreading panicgrass) ⁴	<i>Panicum dichotomiflorum</i>
Red rice ⁵	<i>Oryza sativa</i>
Ryegrass, Italian (Annual ryegrass)	<i>Lolium multiflorum</i>
Sandbur (Burgrass)	<i>Cenchrus incertus</i>
Shattercane (Wild cane) ⁶	<i>Sorghum bicolor</i>
Sprangletop	<i>Leptochloa filiformis</i>
Stinkgrass (Lovegrass)	<i>Eragrostis cilianensis</i>

Grass Weeds	
Texas panicum (Buffalograss, Coloradograss)	<i>Panicum texanum</i>
Wooly cupgrass	<i>Eriochloa villosa</i>
¹ See special instructions for control in Sugarcane in the “CROPS” section of this label. ² See special instructions for rhizome control in cotton, soybeans, fruit and nut crops and vineyards in the “CROPS” section of this label. ³ When applied as a pre-plant incorporated treatment, this product controls wild oats that germinate in the treated zone. Wild oat control is not claimed for incorporated uses in small grains. ⁴ See special instructions for control in cotton and soybeans in the “CROPS” section of this label for spreading panicgrass. ⁵ See special instructions for suppression or partial control in Soybeans in the “CROPS” section of this label. ⁶ See special instructions for control in soybeans in the “CROPS” section of this label.	

Broadleaf Weeds	
Common Name	Scientific Name
Carpetweed	<i>Mollugo verticillata</i>
Chickweed	<i>Stellaria media</i>
Field bindweed ¹	<i>Convolvulus arvensis</i>
Goosefoot	<i>Chenopodium hybridum</i>
Henbit	<i>Lamium amplexicaule</i>
Knowtweed	<i>Polygonum aviculare</i>
Kochia (Fireweed, Mexican fireweed)	<i>Kochia scoparia</i>
Lambsquarter, Common	<i>Chenopodium album</i>
Pigweed (Carelessweed, Palmer amaranth ² , Prostrate pigweed, Redroot, Rough pigweed, Spiny pigweed) ³	<i>Amarathus spp.</i>
Puncturevine (Western U.S. only, Caltrop, Goatweed)	<i>Tribulus terrestris</i>
Purslane, Common	<i>Portulaca oleracea</i>
Pursley, Florida (Florida purslane, Mexican clover, Pusley)	<i>Richardia scabra</i>
Russian thistle (Tumbleweed)	<i>Salsola iberica</i>
Stinging nettle (Nettle)	<i>Urtica dioica</i>
¹ See special instructions for control in fruit and nut crops and vineyards in the “CROPS” section of this label. ² Suppression only in areas of the Southwest U.S. where tolerance to trifluralin has been observed. Consult your local extension service or Winfield United representative for information regarding alternative weed control practices. ³ See special instructions for control in soybeans in the “CROPS” section of this label.	

SPECIAL USE PROGRAMS (SUP)

This product is approved for the following special use programs. Refer to “CROPS” section of this label for details on soil preparation, use rates, application, soil incorporation and precautions for each type of program.

Cotton

- Fall Panicum Control
- Pigweed and Seedling Johnsongrass Control
- Additional Weed and Grass Control (Gulf Coast Counties of TX)
- Rhizome Johnsongrass Control
- Chemigation
- Weed Control in Conservation Tillage

Soybeans

- Fall Panicum Control
- Pigweed and Seedling Johnsongrass Control
- Additional Weed and Grass Control (Gulf Coast Counties of TX)
- Rhizome Johnsongrass Control in the Eastern U.S.A. and the State of TX
- Itchgrass (Raoulgrass) Suppression
- Charcoal Soils in AR, LA and MS
- Red Rice Control in AR, LA, MS and TX
- Wild Cane (Shattercane)
- Rhizome Johnsongrass Control with This product plus Sencor® or This Product plus Lexone® Tank Mix.
- Chemigation
- Weed Control Under Reduced or Conservation Tillage

Fruit and Nut Crop and Vineyards

- Rhizome Johnsongrass Control
- Field Bindweed Control

CROPS

Alfalfa (Established)

Mechanically Incorporated

Apply this product with ground or aerial equipment and mechanically incorporate prior to weed emergence to control weeds listed in the *"WEEDS CONTROLLED BY THIS PRODUCT"* section of this label. Use mechanical incorporation equipment that will ensure thorough soil mixing with minimal damage to crop stand.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (pts./Ac.)
Coarse	1.5
Medium	2
Fine	2

Surface Applications (Chemigation or Water Incorporated)

This product may be surface applied for annual grass control in established alfalfa by chemigation, ground or aerial broadcast application equipment.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (pts./Ac.)
All Soil Textures	4

Chemigation

Refer to the *"Chemigation Directions"* section of this label.

Surface Applications Activated by Rainfall or Irrigation

Broadcast surface applications of this product to established alfalfa may be activated by rainfall, sprinkler, flood or furrow irrigation. Rainfall or a single overhead sprinkler irrigation of 0.5 acre inch or more is required to activate this product. If activated by furrow irrigation, take care to thoroughly wet beds between furrows. If rainfall or irrigation has not occurred within 3 days after application, this product may be mechanically incorporated. If mechanically incorporated, use equipment that will ensure thorough soil mixing with minimum damage to the established alfalfa.

Application Timing and Weeds Controlled

Applications to established alfalfa for annual grass control can be made during dormancy or semi-dormancy or during the growing season immediately after a cutting. Because this product does not control established weeds, application must be made prior to the expected time of weed germination. Bromegrass and cheat begin to germinate in the fall with the onset of cooler weather. To control these weeds, apply this product immediately after a cutting between August 1 and October 1, but prior to weed germination. When fall applied, this product controls bromegrass and cheat in addition to other labeled weeds that germinate after application.

The following weeds are controlled when this product is applied by chemigation or surface applied and incorporated by rainfall or irrigation:

Barnyardgrass	Cupgrass
Bromegrass	Foxtail
(Cheatgrass, Cheat, Chess, Downy brome)	Junglerice
Canarygrass	Sandbur
Crabgrass	Wild barley

Restrictions:

- Do not apply within 21 days before harvest of forage, or 20 days before harvest of hay.
- Apply no more than 4 pints of this product (2 lbs. a.i.) per application.
- Do not apply more than 8 pints of this product (4 lbs. a.i.) per acre per year.

Precaution: In the growing season following application of 4 pints of this product to Alfalfa, plant only those crops for which this product is registered as a pre-plant treatment or crop injury may occur.

Tank-mixing or Sequential Treatments

Other products registered for use on established alfalfa may be ground broadcast in tank-mix combination with this product or applied as sequential treatment following application of this product. Tank mixes containing this product must be applied when alfalfa is dormant or semi-dormant or immediately after a cutting. Follow the label “*DIRECTIONS FOR USE*” of each tank-mix partner for applicable use instructions including application rate, application timing, weeds controlled and specific precautions and restrictions of product use. Follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture. See detailed information for tank mixing in the “*MIXING INSTRUCTIONS*” section of this label.

Asparagus (Established)

Apply this product to established asparagus as a single or split application. This product will suppress volunteer seedling asparagus and field bindweed when applied as directed. Follow the soil preparation, application and incorporation procedures for this product.

Application Timing: Make applications to dormant asparagus in winter or early spring after mature ferns have been removed. Do not apply after new spears begin to emerge. Apply post-harvest application immediately after harvest in late spring or early summer just before ferns are allowed to develop.

BROADCAST APPLICATION RATES PER ACRE		
Soil Texture	Split Application Before and After Harvest (Pts. / Ac.)	Single Application Before or After Harvest (Pts. / Ac.)
Coarse	1 + 1	2
Medium	1.5 + 1.5	3
Fine	2 + 2	4
Do not apply more than the dosage listed above during any calendar year.		

Beans (All Dry and Fresh Beans/Peas – Except Beans/Peas Listed Elsewhere on This Label)

This Product Alone

Apply and incorporate this product in the spring before planting or in the fall. See instructions for fall application of this product under the “APPLICATION TIMING” section of this label.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1 to 1.5
Fine	1.5 to 2
<ul style="list-style-type: none"> • Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter. • Use 2 pints for Fine soils with 2 to 5% organic matter. • Use 2 pints for soils with 5 to 10% organic matter. • Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation. 	

Tank-mixing or Sequential Treatments

For broader spectrum weed control, other products registered for use in dry and fresh beans may be applied in tank-mix combination with this product or as a sequential treatment following application of this product. When tank-mixing, use the labeled rate of this product. Follow the label’s “DIRECTIONS FOR USE” of each tank-mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. Follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture. See detailed information for tank-mixing in the “MIXING INSTRUCTIONS” section of this label.

Beans (Guar and Mungbean)

This Product Alone

Apply this product as a pre-plant soil incorporated treatment.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.5

Fine	1.5
All soils with 2% to 5% organic matter – Use 1.5 pints.	

Beans (Lima and Snap)

Apply this product as a pre-plant soil incorporated treatment.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1
Fine	1.5
All soils with 2% to 5% organic matter – Use 1.5 pints.	

Carrots

Apply this product as a pre-plant soil incorporated treatment.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.25 to 1.5
Fine	1.5 to 2
<ul style="list-style-type: none"> • Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter. • Use 2 pints for Fine soils with 2 to 5% organic matter. • Use 2 pints for soils with 5 to 10% organic matter. • Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation. 	

Castor Bean

Apply this product as a soil incorporated treatment, before or immediately after planting. If applied and incorporated after planting, set equipment so as to not disturb the seed.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.25 to 1.5
Fine	1.5 to 2
<ul style="list-style-type: none"> • Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter. • Use 2 pints for Fine soils with 2 to 5% organic matter. • Use 2 pints for soils with 5 to 10% organic matter. • Use the lower rate in the range in areas receiving less than 20 inches total annual rainfall and irrigation. 	

Celery

Apply this product as a soil incorporated treatment. This product may be applied to direct seeded or transplant celery before planting, at-planting or immediately after planting.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.25 to 1.5
Fine	1.5 to 2
<ul style="list-style-type: none"> • Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter. • Use 2 pints for Fine soils with 2 to 5% organic matter. • Use 2 pints for soils with 5 to 10% organic matter. • Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation. 	

Chicory / Endive

This product may be applied as a pre-plant incorporated treatment to chicory grown either as a root crop or leafy vegetable as indicated below:

Cichorium intybus, considered to be a root crop, may yield the following:

Chicory – the dried and processed root used as a coffee substitute.

Radicchio – green leaves harvested from field grown plantings.

Belgian endive – white leaves grown in the dark, growth from field grown rootstalks.

Cichorium endiva, considered to be a leafy vegetable, may yield the following:

Escarole – curly green leaves from field grown plantings.

Endive – very curly green leaves from field grown plantings.

Apply this product as a soil incorporated treatment in spring or early summer prior to planting. Apply and incorporate this product according to directions on this product label.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.5
Fine	2
<ul style="list-style-type: none"> • Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter. • Use 2 pints for Fine soils with 2 to 5% organic matter. • Use 2 pints for soils with 5 to 10% organic matter. 	

Cole Crops (Broccoli, Brussels Sprouts, Cabbage and Cauliflower)

Direct Seeded Cole Crops

Apply this product as a pre-plant soil incorporated treatment.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1
Fine	1.5
Use 1.5 pints for soils with 2 to 5% organic matter.	

Precaution: Direct seeded cole crops exhibit marginal tolerance to higher than specified rates of this product. Stunting or reduced stands may occur.

Transplanted Cole Crops

Apply and incorporate this product prior to transplanting.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.25 to 1.5
Fine	1.5 to 2
<ul style="list-style-type: none">• Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter.• Use 2 pints for Fine soils with 2 to 5% organic matter.• Use 2 pints for soils with 5 to 10% organic matter.• Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation.	

Corn (Field Corn Only)

Post-emergence Incorporated Treatment

Apply this product as a post-emergence treatment following cultivation and/or use of a pre-emergence herbicide. This product does not control established weeds. Apply when crop is well established (2-true leaf stage or taller). Apply as an over-the-top spray or as a directed spray using drop nozzles if foliage prevents uniform coverage of the soil surface.

Incorporation Directions: Applications of this product must be mechanically incorporated within 24 hours. Mechanical incorporation may be accomplished with one pass of a sweep-type cultivator or properly adjusted rolling cultivator. The sweep-type cultivator should have 3 to 5 sweeps per row middle and be operated at a speed that will provide vigorous soil mixing. Set middle sweeps to avoid exposing untreated soil. Adjust incorporation equipment to avoid mechanical injury to the crop.

Water in Option for Coarse and Medium Textured Soils: On *Coarse* and *Medium textured soils*, this product may be incorporated by continuous rainfall or sprinkler irrigation amounting to at least 0.5 to 1 inch of water. Best results are obtained if application is made immediately after a cultivation when the soil surface is open and porous. Rainfall or sprinkler irrigation prior to application will tend to consolidate and seal the soil surface and prevent the downward movement of this product that is expected under porous, open, recently tilled conditions. Supplemental irrigation can be applied through a center pivot, solid set, or hand moved sprinkler system. Do not use furrow irrigation. Mechanically incorporate as described above if the required amount of rainfall or sprinkler irrigation does not occur within 24 hours after application.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	0.75 to 1 ¹
Medium	1.25 to 1.5
Fine	1.5 to 2
<p>¹ Apply 1 to 1.5 pints per acre on Coarse soils in AL, FL, GA, NC, SC and VA to control Fall panicum and TX panicum.</p> <ul style="list-style-type: none">• Apply the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation.	

Precautions:

- Do not apply this product to corn as a pre-plant or pre-emergence treatment or crop injury may occur.
- Where corn is planted in a furrow, apply this product only after cultivation to move soil into the row.

Restriction:

- Do not apply this product within 6 weeks prior to harvesting forage, fodder, or silage, or after corn is 30 inches tall.
- Do not apply to sweet corn or corn grown for seed.

Chemigation

This product may be applied through properly equipped chemigation systems for weed control in field corn. Refer to “*Chemigation Directions*” in the “*APPLICATION METHODS*” section of this label. Do not apply this product through any type of irrigation system unless these directions are carefully followed.

Application Timing: Apply this product in 0.5 to 1 acre inch of sprinkler irrigation when field corn is at the 2-true leaf stage of growth or taller. Apply this product prior to weed emergence or after existing weeds have been controlled with herbicides or cultivation. This product does not control established weeds.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1.5 to 2
Medium	1.5 to 2
Fine	Do not apply this product by chemigation to Fine textured soils.

Precautions:

- Where corn is planted in furrow, apply this product only after a cultivation to move soil into the row.
- Do not apply this product to corn as a pre-plant or pre-emergence treatment as crop injury may occur.

Restrictions:

- Do not apply this product by chemigation to sweet corn or corn grown for seed.
- Do not apply this product within 6 weeks prior to harvesting forage, fodder, or silage, or after corn is 30 inches tall.

This Product plus Atrazine Tank-mix

This product may be applied in tank-mix combination with atrazine plus an emulsifiable oil or oil concentrate when corn is at the 2-leaf stage of growth or taller and weeds are no more than 1.5 inches in height. A period of 24 to 48 hours is required to obtain atrazine post-emergence activity after which the pre-emergence activity of this product plus atrazine combination may be activated by 0.5 inch or more of rainfall or overhead sprinkler irrigation or mechanical incorporation. Use the application rates and incorporation methods for this product specified under “*Post-emergence Incorporated Treatment*” in the “*CORN (FIELD CORN ONLY)*” section of this label. Refer to the product label for Atrazine for application rates, additional use directions, precautions, restrictions and limitations before use. Follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture.

Cotton

This product may be applied for weed control in cotton in the fall, in the spring before planting, after planting, but prior to crop emergence, or to established cotton up to and including lay-by, but no later than 90 days before harvest.

Application Directions

This product may be applied and soil incorporated or it may be applied through chemigation (see directions for chemigation in “Chemigation” section below).

Follow the soil preparation, application and incorporation procedures in the “*INCORPORATION DIRECTIONS*” section of this label. For Fall application, in addition to the directions below, refer to instructions in the “*APPLICATION TIMING*” section of this label. For lay-by application, refer to instructions in the “*Lay-by Application*” section below.

If incorporating after planting, incorporate this product soon after planting and set equipment to avoid disturbing planted Cottonseed.

For band applications, reduce the application rate in proportion to the row spacing and bandwidth treated. For example, treating a 12-inch band where the row spacing is 36 inches would require 1/3 of the specified broadcast rate per acre (12 inches divided by 36 inches = 1/3).

Tank-mixing or Sequential Treatments: For broader spectrum weed control, other products registered for use in Cotton may be applied in tank-mix combination with this product or as a sequential treatment following application of this product. When tank-mixing, use the labeled rate of this product. Follow the label “*DIRECTIONS FOR USE*” of each tank-mix partner for applicable use instructions including application rate, application timing, weeds controlled and specific precautions and restrictions of product use. Follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture. See detailed information for tank mixing in the “*MIXING INSTRUCTIONS*” section of this label.

Conventional Tillage Cotton

BROADCAST APPLICATION RATES PER ACRE			
Soil Texture	This Product		
	Spring Application ¹ (Pts.)	Fall Application (Pts.)	
		Eastern U.S. ²	Western U.S. ³
Coarse	1	2	1.5
Medium	1.25 to 1.5	2	2
Fine	1.5 to 2	2.5	2.5
¹ Spring Application: <ul style="list-style-type: none">• On Coarse and Medium soils with 2 to 5% organic matter, use 1.5 pints per acre.• On Fine soils with 2 to 5% organic matter use 2 pints per acre.• On all soils with 5 to 10% organic matter use 2 to 2.5 pints per acre.• Use the lower rate in the rate range for areas receiving less than 20 inches of total annual rainfall and irrigation. ² Fall Application: For Eastern U.S. including AL, AR, northern FL, GA, LA, MS, southeastern MO (Bootheel) NC, NM, OK, SC, TN and TX. ³ Fall Application: For Western U.S. including Arizona and California. For fall application in all other States and areas not listed in the above footnotes, apply this product at the spring application rate, using the higher rate where a range is given.			

Minimum Tillage Cotton (Conservation Tillage Cotton)

Fall Application Prior to Establishing a Cover Crop

Apply this product to flat ground at a broadcast rate of 2 to 3 pints per acre. Use the 3 pints per acre rate where crop residues are present or where dense weed populations are anticipated. Incorporate once within 24 hours using incorporation implements, such as a springtooth harrow, set to cut no more than 2 to 3 inches deep. DO NOT INCORPORATE WITH A TANDEM DISC. Form beds with disc bedders or other bedding implements that will mix and move most of the treated soil from the furrow area to the beds.

Fertilizer may be applied as appropriate during incorporation operations. Plant 2 to 4 rows of a small grain cover crop, such as barley, rye or wheat, 2 inches deep in the furrow area between the beds. To avoid injury to small grain seedlings, place seed below the treated layer of soil. Barley is more tolerant to injury than wheat or rye. Existing soil moisture must be present to establish and maintain the cover crop. In later winter (February), apply 2,4-D if necessary for broadleaf weed control.

Spring Application Before or After Planting

Apply this product as a broadcast treatment or as a band to bare ground or standing dead cover following burndown with a postemergence herbicide. This product may be applied and incorporated either before planting or after planting. If applied after planting, incorporate immediately and set incorporation equipment to operate at a depth that will not disturb the planted seed. If this product is applied as a band, adapt incorporation equipment to the width of the treated band and use equipment that will uniformly mix this product into the top 1 inch of soil. Be aware, that compared to double pass incorporation, weed control may be reduced when using single pass incorporation; or, if using equipment that does not provide thorough soil mixing.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1 to 2
Medium	1.5 to 2
Fine	2 to 4
<ul style="list-style-type: none">• Use the lower application rate in the specified range when additional sequential applications of this product are anticipated.• Use the higher application rate where crop residues are present and where dense weed populations are anticipated.	

Chemigation

Apply this product in overhead sprinkler irrigation equal to 0.5 to 1 inch of water in either conventional or minimum tillage cotton. This product must be applied within 2 days after planting and prior to crop emergence. Because this product does not control established weeds, planting and application should occur as soon as possible after the last tillage operation. Soil incorporation is not required when this product is applied through chemigation systems.

Cultivation: Soil treated by chemigation with this product may be shallow cultivated without reducing weed control activity. Refer to *"Application by Chemigation"* in the *"APPLICATION METHODS"* section of this label for use directions for chemigation. Apply this product only through the kinds of sprinkler irrigation systems specified in that section of the label.

BROADCAST APPLICATION RATES PER ACRE		
Soil Texture	This Product	
	Conventional Tillage (Pts. / Ac.)	Minimum Tillage ¹ (Pts. / Ac.)
Coarse	1	1 to 3
Medium	1.5	1.5 to 4
Fine	2	2 to 4
¹ In minimum tillage situations, use the lower application rate in the specified range when additional sequential applications of this product are anticipated. Use the higher application rate when a large amount of crop residue is present, where dense weed populations are anticipated, or when additional sequential applications will not be made.		

Crop Rotation Intervals After Chemigation:

- **Conventional Tillage:** Refer to the “CROP ROTATION INTERVALS” section of this label.
- **Minimum Tillage:** In addition to the “CROP ROTATION INTERVALS” section of this label, do not plant grain sorghum in the year following the application of this product.

Lay-by Application

Lay-by application may be made in established cotton after the 4-true leaf growth stage, but no later than 90 days before harvest. Apply this product uniformly to the soil surface using drop nozzles if necessary. Incorporate into soil using one pass of a sweep-type cultivator or properly adjusted rolling cultivator. Operate cultivation equipment at speeds sufficient to provide vigorous soil mixing, and exercise care to avoid mechanical injury to the crop. Compared to conventional double pass incorporation, weed control may be reduced when using single incorporation, or if using equipment that does not provide thorough soil mixing. The lay-by application rate must not exceed the rate given in the lay-by table below for each soil texture.

LAY-BY BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.5
Fine	2

Special Use Programs

1) Fall Panicum Control

Apply as pre-plant incorporated treatment at a broadcast rate of 2 pints per acre on both *Coarse* and *Medium* soils.

2) Pigweed and Seedling Johnsongrass Control

Apply this product as a pre-plant incorporated treatment in AL, AR, FL, GA, LA, MS, Southeastern MO (Bootheel), NC, SC, TN and Southern VA.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1 to 1.5
Medium	1.5 to 2
Fine ¹	2

¹ **Exception:** LA where 3 pints per acre can be applied to Fine soils.

- Use the higher rate in the rate range where high weed populations are anticipated.

3) Additional Weed and Grass Control (Gulf Coast Counties of TX)

Apply this product as a pre-plant incorporated treatment up to two weeks before planting in Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Waller and Wharton counties of the Texas Gulf Coast.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1.5
Medium	2
Fine	3

4) Rhizome Johnsongrass Control (For use in all cotton producing States except AZ and CA)

Rhizome johnsongrass control with this product requires the maximum application rates for two consecutive years. Commercially acceptable control cannot be obtained with only one year of applying the maximum rate of this product. Carefully follow all special use directions.

Soil Preparation: Satisfactory results are dependent upon proper preparation of soil prior to application. Chisel plow to bring rhizomes to the soil surface. Disc twice before application to chop rhizomes into small (2 or 3 inch) pieces and destroy any recently emerged johnsongrass plants.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	2
Medium	3
Fine	4

Spring Application: Apply this product any time before planting in the spring for two years in succession.

Fall Application: Apply this product between October 15 and December 31 for two years in succession.

Incorporation: Deep incorporation with a tandem disc is essential for good results. Set disc to operate 4 to 6 inches deep and operate at 4 to 6 mph. Two incorporation passes are necessary, make the second in a different direction than the first.

Cultivation: Some johnsongrass plants will not be controlled. Timely cultivation during the crop season is necessary to remove escaped plants and maintain commercially acceptable control.

Precautions:

- In the season following a maximum rate treatment, plant only rice or those crops for which this product can be applied as a pre-plant treatment or crop injury may occur.
- To avoid crop injury, plant cotton after early season adverse weather conditions have passed, especially when using high rates. Cool, wet weather early in the growth cycle causes stress to the cotton plant. The added stress may result in reduced stand, delayed maturity, and reduced yields.
- **Crop Rotation Intervals:** Refer to the “CROP ROTATION INTERVALS” section of this label for further information on crop rotation intervals. When the cumulative amount of this product in one crop year (fall or spring plus lay-by) exceeds the rates in the table below, plant only those crops for which this product

is labeled as a pre-plant incorporated treatment in the season following the application of this product, or crop injury may result.

Soil Texture	Cumulative Amount of This Product in One Crop Year (Pts. / Ac.)
Coarse	1.5
Medium	1.5
Fine	2

A small grain cover crop such as barley, rye or wheat that is intended for prevention of wind erosion in minimum tillage cotton may be planted in the fall following a maximum crop year use rate of 4 pints per acre of this product; however, reduced stand and delayed emergence and development of the cover crop may result. The cover crop must not be grazed or harvested.

Restrictions:

- **Maximum Crop Year Use Rates:** For full season weed control, this product may be applied one or more times sequentially during the crop year observing the rates, methods of application, and a 90 day pre-harvest interval. The maximum dosage must not exceed the rates given, and the **maximum cumulative amount of this product that may be applied within the same crop year (includes fall application or spring application plus lay-by application) must not exceed 4 pints per acre (2 lbs. a.i. per acre).**

Cottonwood Trees Grown for Pulp

Apply as a soil incorporated treatment to control weeds susceptible to this product in new and established plantings of cottonwood trees grown for pulp.

Application Before Planting

Apply and incorporate this product before planting.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.25 to 1.5
Fine	1.5 to 2
<ul style="list-style-type: none"> • All soils with 2 to 5% organic matter, use 1.5 to 2 pints per acre. • All soils with 5 to 10% organic matter, use 2 pints per acre. • Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation. 	

Application to Established Plantings

In established plantings, apply and incorporate this product prior to periods of weed germination or immediately after existing weeds are controlled by tillage or herbicide treatment. Apply as a directed spray and use incorporation methods not injurious to crop.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
All Soil Textures	2 to 4
Application rate within the rate range may be adjusted according to weed pressure.	

Johnsongrass Suppression in Established Plantings

Proper soil preparation before application is necessary for satisfactory results. Use a chisel plow or similar implement to bring rhizomes to the soil surface. Then work the soil twice using a tandem disc to cut rhizomes into small (2 to 3 inch) pieces and destroy emerged johnsongrass.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
All Soil Textures	4

Incorporation

Incorporate twice with tandem disc set to cut 4 to 6 inches deep and operate at 4 to 6 mph.

Cultivation

Some johnsongrass plants will escape. Timely cultivation with tillage implements or spot spraying with effective post-emergence herbicides will improve the level of johnsongrass control.

Cucurbits

Apply this product after emergence when plants have reached the 3 to 4 true leaf stage of growth. Apply as a directed spray to soil between the rows. Avoid foliage contact as slight crop injury may occur. Set incorporation equipment to move treated soil around the base of the plants.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.25 to 1.5
Fine	1.5 to 2
<ul style="list-style-type: none">• Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter.• Use 2 pints for Fine soils with 2 to 5% organic matter.• Use 2 pints for soils with 5 to 10% organic matter.• Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation.	

Restrictions:

- Do not apply to watermelon within 60 days of harvest.
- Do not apply to other cucurbit crops within 30 days of harvest.

Flax (Fall Applications Only)

Apply and incorporate this product in the fall for weed control in spring seeded flax. Incorporate once within 24 hours after application. The second incorporation may be performed in the spring prior to planting.

Special Instructions for Flax

1. Incorporation operations or other tillage practices performed in the spring prior to seeding should be relatively shallow to maintain a firm seedbed and the seedbed should be packed prior to seeding.
2. Seeding should be done with a press drill or hoe drill. Seed into moist seedbed and plant no more than 1.5 inches deep.
3. Delay seeding until soil has warmed sufficiently to all rapid germination and establishment.
4. Refer to "Use Precautions" in the "PRODUCT INFORMATION" section of this label for information on growing conditions that can lead to crop injury or yield reduction.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.5
Fine	2

Forage Legumes

Forage Legumes used as Cover Crops or in the Acreage Conservation Reserve Program: Apply this product as a pre-plant soil incorporated treatment.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1 to 1.5
Fine	2
Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation.	

Precautions:

- If used under the Acreage Conservation Reserve Program, follow the most severe grazing restrictions imposed by the USDA Conservation Use Program. Consult the local ASCS committee or other State agency to determine the period of the USDA grazing restriction.
- Some crop stand reduction may occur with this use; however, reduced weed competition will allow establishment of a quality stand.

Grain Sorghum (Milo)

Post-emergence Incorporated Treatment

Apply this product as a directed or over-the-top spray when grain sorghum is 8 inches tall or taller. Use drop nozzles if foliage prevents uniform soil coverage.

Soil Preparation: Cultivate before application of this product to remove established weeds and to cover the base of grain sorghum plants with soil. Set cultivation equipment to add approximately 1 inch of soil to the base of sorghum plants.

Incorporation Directions: Application of this product must be mechanically incorporated within 24 hours after application. Mechanical incorporation may be accomplished with one pass of a sweep-type cultivator or properly adjusted rolling cultivator. With Sweep-type cultivators make 3 to 5 sweeps per row per middle and operate at a speed that will provide vigorous soil mixing. Set middle sweeps to avoid exposing untreated soil. Adjust incorporation equipment to avoid mechanical injury to the crop.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	0.75 to 1
Medium	1 to 1.5
Fine	1.5 to 2

Apply this product at the lower rate in the rate range in areas receiving less than 20 inches total rainfall and irrigation.

Precautions:

- Do not apply this product to grain sorghum as a pre-plant or pre-emergence treatment or crop injury will occur.
- Over-application may result in injury to grain sorghum.

Restriction: Do not apply after grain sorghum is 24 inches tall.

Chemigation

This product may be applied through properly equipped chemigation systems for weed control in grain sorghum that is 8 to 24 inches tall. Refer to “*Chemigation Directions*” in the “*APPLICATION METHODS*” section of this label for chemigation use directions. Do not apply this product through any irrigation system unless these directions are carefully followed.

Soil Preparation: Cultivate before application of this product to destroy existing weeds and cover the base of the grain sorghum plants with soil. Set cultivation equipment to add approximately 1 inch of soil to the base of sorghum plants.

Application Timing: Apply this product to grain sorghum in 0.5 to 1 acre inch of overhead sprinkler irrigation as soon as possible after a cultivation when grain sorghum is at least 8 inches tall. This product must be applied prior to weed emergence or after existing weeds are controlled. This product does not control established weeds.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	0.75 to 1
Medium	1 to 1.5
Fine	Do not apply this product by chemigation to Fine textured soils.

Restriction: Do not apply after grain sorghum is 24 inches tall.

This Product plus Atrazine Tank-mix

This product may be applied in tank-mix combination with atrazine plus an emulsifiable oil or oil concentrate when grain sorghum is 8 inches tall or taller and weeds are not more than 1.5 inches in height. A period of 24 to 48 hours is required to obtain post-emergence activity of atrazine after which the pre-emergence activity of this product plus atrazine combination may be activated by 0.5 inch or more of sprinkler irrigation or mechanical incorporation. Use application rates of and incorporation methods for this product specified under “*Postemergence Incorporated Treatment*” in the “*Grain Sorghum (Milo)*” section of this label. Refer to the product label for atrazine for application rates, additional use directions, precautions, restrictions and limitations before use. Follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture.

Precaution: Where grain sorghum is planted in a furrow, apply this product only after cultivation to move soil into the row.

Greens – Collard, Kale and Mustard Greens (Fresh, for Processing or Grown for Seed)

Apply this product to greens as a pre-plant soil incorporated treatment.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.5
Fine	1.5
Use 1.5 pints for soils with 2 to 10% organic matter.	

Hops

Apply and incorporate this product to established crop during dormancy. Use incorporation equipment that will ensure thorough soil mixing with minimal damage to crop stand.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.25 to 1.5
Fine	1.5
Use 1.5 pints for soils with 2 to 10% organic matter.	

Kenaf

Apply this product as a pre-plant soil incorporated treatment.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse ¹	1
Medium	1.0 to 1.5
Fine	1.5
¹ Coarse soils with 2 to 5% organic matter – use 1.5 pints per acre. • Use the higher rate in the rate range where high weed populations are anticipated.	

Restriction: Do not graze or harvest treated crop for livestock forage.

Mustard (Grown for Seed or Processed Food)

Apply this product to mustard as a pre-plant soil incorporated treatment.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.5
Fine	1.5
Use 1.5 pints for soils with 2 to 10% organic matter.	

Okra

Apply this product as a soil incorporated treatment before or immediately after planting. If applied and incorporated after planting, set equipment so as to not disturb the seed.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.25 to 1.5
Fine	1.5 to 2
<ul style="list-style-type: none"> • Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter. • Use 2 pints for Fine soils with 2 to 5% organic matter. • Use 2 pints for soils with 5 to 10% organic matter. • Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall or irrigation. 	

Onions (Dry Bulbs Only)

Post-emergence Lay-by Application: Apply at lay-by to soil between onion rows. Avoid applying to the tops or exposed bulbs.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	0.75 to 1
Medium	1 to 1.5
<ul style="list-style-type: none"> • Apply only to soils 3.5% or less organic matter. • Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall or irrigation or where light weed pressure is anticipated. 	

Incorporation: Incorporate by operating sweep-type or rolling cultivator. Set equipment to cut 2 to 4 inches deep and operate at 6 to 8 mph. Two incorporation passes are required with the first occurring within 24 hours after application or erratic weed control may result. Avoid covering exposed onion bulbs with treated soil during incorporation as crop injury may occur. Avoid injury to crop roots during incorporation.

Precaution: When applied according to directions under normal growing conditions, this product will not adversely affect onions. Diseases, improper incorporation depth, excessive moisture, high salt concentration or drought may weaken the crop and increase the possibility of damage from this product. Under these conditions, delayed crop development or reduced yields may result.

Restrictions:

- Do not apply within 60 days of harvest.
- Do not apply as pre-plant or pre-emergence treatment.
- Do not apply to *Muck soil*.

Peanuts (OK, NM and TX)

This Product Alone

Apply and incorporate this product before planting, at-planting or immediately after planting. When incorporating after planting, adjust equipment so as not to disturb planted seed.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.5

Tank-mixing or Sequential Treatments

For broader spectrum weed control, other products registered for use in peanuts may be applied in tank-mix combination with this product, or as a sequential treatment following application of this product. When tank-mixing, use the specified rate of this product. Follow the label *"DIRECTIONS FOR USE"* of each tank-mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. Follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture. See detailed information for tank-mixing in the *"MIXING INSTRUCTIONS"* section of this label.

Peas (Dry and English Peas)

This Product Alone

Apply and incorporate this product in the spring before planting or in the fall. Refer to instructions for fall application under the *"APPLICATION TIMING"* section of this label.

BROADCAST APPLICATION RATES PER ACRE		
Soil Texture	This Product	
	Spring Application (Pts. / Ac.)	Fall Application ¹ (Pts. / Ac.)
Coarse	1	1
Medium	1 to 1.5 ²	1.25 to 1.5
Fine	1.5	1.5
¹ This product may be Fall applied to dry and English peas in the States of ID, OR and WA. ² Medium soils with 3% or more organic matter, use 1.5 pints. • Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation.		

Tank-mixing or Sequential Treatments

For broader spectrum weed control, other products registered for use in dry and English peas may be applied in tank-mix combination with this product or as a sequential treatment following application of this product. When tank-mixing, use the specified rate of this product. Follow the label *"DIRECTIONS FOR USE"* of each tank-mix partner for applicable use instructions including application rate, application timing, weeds controlled and specific precautions and restrictions of product use. Follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture. See detailed information for tank-mixing in the *"PRODUCT INFORMATION"* section of this label.

Peas (Southern Peas)

Apply as a pre-plant soil incorporated treatment.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.25 to 1.5
Fine	1.5 to 2

- Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter.
- Use 2 pints for Fine soils with 2 to 5% organic matter.
- Use 2 pints for all soils with 5 to 10% organic matter.
- Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall or irrigation.

Peppers (Transplant Only)

Apply and incorporate this product prior to transplanting.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.25 to 1.5
Fine	1.5 to 2
<ul style="list-style-type: none"> • Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter. • Use 2 pints for Fine soils with 2 to 5% organic matter. • Use 2 pints for soils with 5 to 10% organic matter. • Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall or irrigation. 	

Potatoes (Not for Use in the State of ME)

This Product Alone

Apply and incorporate this product after planting prior to crop emergence, immediately following drag-off, or after potato plants have fully emerged.

Incorporation: Set incorporation equipment so that the bed and furrow are uniformly covered with a layer of treated soil. If the layer of treated soil is not uniform and the herbicide is concentrated over the bed, potato emergence may be retarded and stem brittleness can occur. When applying and incorporating this product after potato plants have fully emerged, do not completely cover the plants with treated soil. Likewise, do not completely cover plants during subsequent cultivation. Be careful that incorporation equipment does not damage potato seed pieces or elongating sprouts.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.25 to 1.5
Fine	1.5 to 2
<ul style="list-style-type: none"> • Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter. • Use 2 pints for Fine soils with 2 to 5% organic matter. • Use 2 pints for soils with 5 to 10% organic matter. • Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall or irrigation. 	

Split Applications Before and After Planting (For Use in Idaho, Oregon and Washington)

On all soils, apply and incorporate this product at the rates shown below as split applications before planting and after planting when potato plants have fully emerged. Do not apply to soils containing 2% or more organic matter. Follow incorporation directions provided above for application to potatoes after planting.

BROADCAST APPLICATION RATES PER ACRE	
Time of Application	This Product (Pts. / Ac.)
Before Planting	0.75
After Planting	0.75

This Product Plus EPTC Herbicide Tank-mix – Post-plant Pre-emergence Treatment (For Use in Kansas, Minnesota, Nebraska, North Dakota, Oklahoma, South Dakota and Texas)

This product may be tank-mixed with EPTC herbicide and applied as a soil incorporated treatment to control additional weeds. Apply after planting, but before crop emergence. In areas where potatoes are normally dragged off, apply and incorporate up to or immediately following drag off. Use the application rates for this product specified in the table above for potatoes. Follow the EPTC label for additional use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. Follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture. See detailed information for tank-mixing in the “*MIXING INSTRUCTIONS*” section of this label.

Restriction: Do not graze for feed forage to livestock from fields treated with this product plus EPTC tank-mixtures.

This Product Plus EPTC Tank-mix – Pre-plant Treatment (For Use in Idaho, Oregon and Washington)

This product may be tank-mixed with EPTC and applied as a soil incorporated treatment to control additional weeds. Apply before planting and incorporate immediately. Follow the EPTC label for additional use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. Follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture. See detailed information for tank-mixing in the “*MIXING INSTRUCTIONS*” section of this label.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
All soil textures	0.75

Restrictions:

- Do not use this tank-mix both before and after planting in the same season.
- Do not graze for feed forage to livestock from fields treated with this product plus EPTC tank-mixtures.

Chemigation

This product may be applied through properly equipped chemigation systems for weed control in potatoes. Refer to “*Chemigation Directions*” in the “*APPLICATION METHODS*” section of this label. Do not apply this product through any type of irrigation system unless these directions are carefully followed.

Apply this product to potatoes in 0.5 to 1 acre inch of overhead sprinkler irrigation after planting, before emergence, or immediately following drag-off or after the potato plants have fully emerged. Existing weeds must be destroyed by tillage or cultivation prior to application of this product. This product does not control established weeds. Incorporation is not necessary when this product is applied by chemigation.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.5

Fine	Do not apply this product by chemigation to Fine textured soils.
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Precaution: If cultivation is required after treatment with this product, avoid completely covering potato plants with treated soil. Erratic weed control may result if cultivation exposes untreated soil between rows.

Radish

Apply this product as a pre-plant soil incorporated treatment.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.5
Fine	1.5

Rapeseed (Canola)

Apply and soil incorporate this product in the spring before planting or in fall. See instructions for fall application under “APPLICATION TIMING” section of this label.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.5
Fine	1.5

Precautions: Where applications are made in late summer or fall, plant as rotation crops in the season following application only on those crops to which this product may be applied as a pre-plant incorporated treatment, or crop injury may occur.

Restrictions: Do not apply this product to rapeseed (Canola) grown in the State of AK.

Safflowers

Apply and incorporate this product in the spring before planting or in the fall. See instructions for fall application under “APPLICATION TIMING” section of this label.

BROADCAST APPLICATION RATES PER ACRE		
Soil Texture	Spring Application (Pts./Ac.)	Fall Application (Pts. / Ac.)
Coarse	1	1.5
Medium	1.25 to 1.5	2
Fine	1.5 to 2	2.5
<ul style="list-style-type: none"> • Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter. • Use 2 pints for Fine soils with 2 to 5% organic matter. • Use 2.5 pints for soils with 5 to 10% organic matter. • Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation. 		

Small Grains (Barley, Durum and Wheat)

Special Precautions for Use of This Product on Small Grains

Carefully follow directions for use of this product on small grains to minimize potential crop stress. Under certain conditions, delayed crop emergence and/or stand reduction may occur when this product is applied to barley, durum or wheat. The combined effect of certain cultural practices and unfavorable soil or environmental conditions may cause excessive crop seedling stress resulting in retarded crop growth, stand reduction and possible reduced yield.

For best results, observe the following cultural practices or precautions:

Use tillage methods that provide a uniformly firm seedbed and time tillage operations to conserve moisture.

Irrigate prior to planting or after germination and emergence. Moisture received between planting and emergence may cause crusting, especially on loose, friable seedbeds.

Do not exceed labeled application rates for this product. This is particularly important on *Coarse textured* or low organic matter soils.

Carefully follow incorporation directions. When applying pre-plant incorporated treatments, operate equipment at recommended depth and speed to place this product into the upper 1 to 1.5 inches of soil. If applied after planting, set equipment so as not to disturb planted seed.

Set drills to place seed at a depth specified in the use directions. A planting depth greater than 2.5 inches for **spring wheat or durum** will result in increased seedling stress and decreased emergence.

Use only high quality seed where this product is to be applied (avoid use of small seed with low starch reserves).

If seed treatments are used, apply at the correct rate and uniformly across all seeds. Misapplications may result in reduced germination and/or seedling vigor.

Avoid use of seed varieties known to have poor seedling (emergence) vigor.

Do not fall apply this product in combination any other pre-plant incorporated herbicide.

Soil characteristics and environmental conditions which may contribute to crop seedling stress that may be accentuated by use of this product include:

Soil related: High salinity, eroded knolls/hilltops, loose, dry soils and compaction.

Weather related: Cold and/or wet soils, excessively hot soils, excessive moisture, drought and soil crusting from heavy rainfall.

Restriction: Do not apply this product on small grains where a dinitroaniline herbicide such as this product or Sonalan® was applied at a rate greater than 0.5 pound a.i. per acre the previous growing season.

Application Directions for Small Grains

Barley, Spring Seeded -- Spring Application Pre-plant Incorporated for Foxtail (Pigeongrass) Control (For Use in MN, ND and SD)

Apply this product as a pre-plant incorporated treatment prior to planting spring seeded barley. This product may be applied to ground that has a manageable trash level or has been fallowed or pre-tilled. The first incorporation is required within 24 hours after application. The second incorporation is required prior to planting to destroy emerged weeds and ensure even distribution of this product in the soil surface.

Broadcast Application Rates per Acre: Apply at a rate of 1 pint per acre for all soil textures regardless of organic matter content.

Incorporation: Recommended incorporation tools include the chisel plow (first incorporation pass only), tandem disc and field cultivator. Refer to “*INCORPORATION EQUIPMENT*” section of this label for details on operation of incorporation equipment.

Planting Directions: Barley should be seeded approximately 1.5 inches deep.

Precautions:

- Carefully read and follow the “*Special Precautions for Use of This Product in Small Grains*” before application of this product.
- While use of this weed control practice may result in a stand reduction, slight stand reductions do not normally affect yield.

Barley, Spring Seeded -- Spring Application, Pre-plant Incorporated for Foxtail (Pigeongrass) Control in Barley Used as a Cover Crop or in the Conservation Reserve Program

Apply this product as a pre-plant incorporated treatment prior to planting spring seeded barley on land enrolled in Acreage Conservation Reserve Programs. Follow recommended soil preparation, application and incorporation procedures for this product.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.5
Fine	1.5

Planting Directions: Barley should be seeded approximately 1.5 inches deep.

Precaution:

- Use of this weed control practice may result in slight stand reduction.

Restriction:

- Follow the most severe grazing restrictions imposed either by the label for this product or by the USDA Acreage Conservation Reserve Program, whichever is longest. Consult the local ASCS office or other State agency to determine the period of USDA grazing restriction.

Winter Wheat -- Pre-plant Incorporated for Control of Cheatgrass and Other Annual Grasses and Broadleaves (For Use In ID, OR and WA)

Apply this product as a pre-plant incorporated treatment for control of annual bluegrass, annual ryegrass, downy brome (cheatgrass), fiddleneck (tarweed), henbit and pacific meadow foxtail (blackgrass). The growth, development and yield of winter wheat will not be adversely affected, provided the seed is placed below the zone of soil treated with this product. This product may be applied for up to 3 weeks before planting.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1.5
Medium	1.5
Fine	2

Incorporation Directions: Incorporate this product with a flexible tine-tooth harrow (Flextine or Melroe) set to cut 1 to 2 inches deep and operate at 3 to 6 mph. Incorporate once within 24 hours after application and a

second time in a different direction from the first prior to planting. Do not till the soil with a disc after this product has been incorporated with a flexible tine harrow.

Planting Directions: Use only a deep furrow or semi-deep furrow drill that will place the seed below the zone of soil treated with this product.

Precautions:

- Carefully read and follow the “*Special Precautions for Use of This Product in Small Grains*” before application of this product.
- Wheat planted in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

Winter Wheat -- Post-plant Incorporated Treatment

Apply and incorporate this product after planting, but before emergence, to control the following weeds susceptible to this product in winter wheat: annual bluegrass, annual ryegrass, downy brome (cheatgrass), fiddle neck (tarweed), henbit and pacific meadow foxtail (blackgrass).

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1.5
Medium	1.5

Planting Directions: Plant wheat 2 to 3 inches deep in a well-tilled seedbed. Do not use a deep or semi-deep furrow drill.

Incorporation Directions: Incorporate this product using 2 passes with a flex-tine or spike-tooth harrow operated at least 5 mph. Make the second incorporation pass in a different direction than the first. Set equipment to cut 1 to 1.5 inches deep and avoid disturbing seed. Application and first incorporation should be done in the same operation if possible. Both incorporations must be done within 24 hours.

Precautions:

- Carefully read and follow the “*Special Precautions for Use of This Product in Small Grains*” before application of this product.
- Wheat seed in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.
- If less than 20 inches of rainfall plus irrigation was received between planting and harvest, refer to the “*CROP ROTATION INTERVALS*” section of the label before planting sorghum or oats.

Winter Wheat -- Fallow Soil Application Prior to Planting (For Use In ID, OR and WA)

This product may be applied and shallowly incorporated into fallow soil up to 4 months before planting wheat to control cheatgrass and certain annual grasses and broadleaf weeds. Apply this product any time from May to September prior to fall planting of winter wheat. Wheat growth, development and yield will not be adversely affected so long as the seed is placed below the zone of soil treated with this product.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1.5
Medium	1.5
Fine	2

Incorporation Directions: Incorporate this product with a flexible tine-tooth harrow (Flextine or Melroe) set to cut 1 to 2 inches deep and operate at 3 to 6 mph. Incorporate once within 24 hours after application and a second time in a different direction from the first prior to planting. Do not till the soil with a disc after this product has been incorporated with a flexible tine harrow.

Planting Directions: Use only a deep furrow or semi-deep furrow drill that will place the seed below the zone of soil treated with this product.

Precautions:

- Carefully read and follow the *“SPECIAL PRECAUTIONS FOR USE OF THIS PRODUCT IN SMALL GRAINS”* before application of this product.
- Wheat planted in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

Wheat, Durum and Barley, Spring Seeded – Fall Applied Pre-plant Soil Incorporated for Foxtail (Pigeongrass) Control (For Use in Minnesota, North Dakota and South Dakota)

Apply this product in the fall for foxtail (pigeongrass) control during the following growing season. Incorporate one time within 24 hours. Incorporate a second time before planting to destroy existing weeds and insure a uniform distribution of this product in treated soil. This product may be applied to ground that has a manageable level of crop residue, or has been fallowed or pre-tilled.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse and Medium	1
Fine	1.5

Incorporated: Recommended incorporation tools include the chisel plow (first incorporation pass only), tandem disc and field cultivator. Refer to *“INCORPORATION EQUIPMENT”* in the *“PRODUCT INFORMATION”* section of this label for details on operation of incorporation equipment.

Planting Directions: Set equipment to place seed approximately 1.5 inches deep.

Precautions:

- Carefully read and follow the *“Special Precautions for Use of This Product in Small Grains”* before application of this product.
- While use of this control practice may result in a stand reduction, slight stand reductions do not normally affect yield.

Spring Wheat, Durum, and Barley – Post-plant Incorporated for Foxtail (Pigeongrass) Control

Apply and incorporate this product after planting, but before emergence to control foxtail (pigeongrass) in spring wheat, durum and barley. This product may be tank-mixed with Far-GO® to control wild oats. Follow the Far-Go label for additional use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. Follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture. See detailed information for tank-mixing in the *“MIXING INSTRUCTIONS”* section of this label.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1
Fine	1.5

Planting Directions: Plant wheat 2 to 3 inches deep in a well-tilled seedbed.

Incorporation Directions: Incorporate this product using two passes with a flex-tine or diamond harrow operated at least 5 mph. Make the second incorporation pass in a different direction than the first. Set equipment to cut 1 to 1.5 inches deep and avoid disturbing seed. Make application and first incorporation in the same operation if possible. Both incorporations must be done within 24 hours.

Precautions:

- Carefully read and follow the *“Special Precautions for Use of This Product in Small Grains”* before application of this product.
- Wheat seed in direct contact with treated soil may suffer crop injury in the form of delayed emergence and development.

Soybeans

This Product Alone

Apply this product and incorporate in the Spring before planting. This product may also be applied in the fall. See instructions for fall application under *“APPLICATION TIMING”* section of this label.

BROADCAST APPLICATION RATES PER ACRE		
Soil Texture	Spring Application (Pts. / Ac.)	Fall Application ¹ (Pts. / Ac.)
Coarse	1	2
Medium	1.5	2
Fine	2	2.5
<p>¹ Fall application rates for States including AL, AR, Northern FL, GA, LA, MS, Southeastern MO (Bootheel), NC, OK, SC, TN and TX: For soybeans grown in States other than those listed above, fall apply this product at broadcast rates specified for spring pre-plant incorporated treatment.</p> <ul style="list-style-type: none">• Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter.• Use 2 pints for Fine soil with 2 to 5% organic matter.• Use 2 to 2.5 pints for soils with 5 to 10% organic matter.		

Precautions:

- Plant soybeans after early season adverse weather conditions have passed, especially when using higher rate programs.
- Cool, wet weather early in the growth cycle causes additional stress on the soybean plant which may result in reduced stand, delayed maturity and reduced yield.

Tank-mix Overlay and Post-emergence Directions

For broader spectrum weed control, other products registered for use in soybeans may be applied in tank-mix combination with this product or as a sequential treatment following application of this product. When tank-mixing, use the labeled rate of this product. Follow the label *“DIRECTIONS FOR USE”* of each tank-mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. Follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture. See detailed information for tank-mixing in the *“MIXING INSTRUCTIONS”* section of this label.

SPECIAL USE PROGRAMS

1) Chemigation

This product may be applied through properly equipped chemigation systems for weed control in soybeans. Refer to “*Chemigation Directions*” in the “*APPLICATION METHODS*” section of this label for use directions for chemigation. Do not apply this product through any irrigation system unless these directions are carefully followed. Apply this product in sprinkler irrigation equal to 0.5 to 1 inch of water. Plant and apply this product as soon as possible after the last tillage operation. This product must be applied within 2 days after planting and prior to crop emergence. This product does not control established weeds. Soil incorporation is not required when this product is applied through chemigation systems.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1.5 to 2
Medium	1.5 to 2
Fine	2 to 2.5
<ul style="list-style-type: none">• Use 2 pints for soil with 2 to 5% organic matter.• Use 2 to 2.5 pints for soil with 5 to 10% organic matter.	

Cultivation: Soil treated by chemigation with this product may be shallow cultivated without reducing weed control activity.

2) Weed Control Under Reduced or Conservation Tillage

This product can be applied either in the fall or in the spring as a pre-plant incorporated treatment for weed control in Soybeans grown under reduced or conservation tillage conditions. Make only one application per crop cycle.

Apply to tilled land or standing or chopped stubble from the previous season’s crop. The first incorporation of this product must occur within 24 hours. For the first incorporation, a tandem disc or combination tool that can thoroughly mix this product into the top 2 to 3 inches of the final seedbed while leaving the desired amount of plant residue on the soil surface is recommended. For fall or spring application, the second incorporation can occur any time prior to planting or at planting with tillage equipment that provides uniform soil mixing used in conjunction with no-till planters.

Application with Dry Bulk Fertilizers

Dry bulk fertilizer impregnated or coated with this product may be applied as a pre-plant incorporated treatment. See instructions for “*Application with Dry Bulk Fertilizer*” in the “*APPLICATION METHODS*” section of this label. Under reduced or conservation tillage conditions, uniformly applied dry bulk fertilizers impregnated with this product provide weed and grass control equal to or better than this product applied with liquid sprays. For best results with Spring applications, incorporate once within 24 hours after application and a second time at least 5 days later.

APPLICATION RATES PER ACRE		
Soil Texture	This Product (Pts. / Ac.)	
	Spring Applied	Fall Applied
Coarse	1 to 1.5	1.5 to 2
Medium	1.5 to 2	2 to 2.5
Fine	2 to 2.5	2.5 to 3

Use the higher rate in the rate range where higher crop residues are present or where dense weed populations are anticipated.

Precaution: To be effective, this product must be mixed thoroughly in the top 2 to 3 inches of soil in the final seedbed. Weed control may be poor or erratic where soil conditions or heavy crop residue do not permit thorough soil mixing.

3) Fall Panicum Control

Apply this product as a pre-plant incorporated treatment at a broadcast rate of 2 pints per acre on *Coarse* and *Medium soils*.

4) Pigweed and Seedling Johnsongrass Control

Apply this product as a pre-plant incorporated treatment.

Broadcast Application Rates Per Acre in AL, AR, FL, GA, KS, LA, MS, MO, NE, NC, OK, SC, TN and Southern VA, apply this product at the following broadcast rates:

APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1 to 1.5
Medium	1.5 to 2
Fine ¹	2 to 2.5
¹ Exception: In LA, apply 3 pints per acre on <i>Fine soils</i> .	

5) Additional Weed and Grass Control (Gulf Coast Counties of TX)

Apply this product as a pre-plant incorporated treatment up to 2 weeks before planting.

Broadcast Application Rates per Acre: For soybeans grown in Brazoria, Calhoun, Chambers, Fort Bend, Galveston, Harris, Jackson, Jefferson, Liberty, Matagorda, Orange, Victoria, Waller and Wharton counties of the TX Gulf Coast, apply this product at the following broadcast rates:

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1.5
Medium	2
Fine	3

6) Itchgrass (Raoulgrass) Suppression

Apply this product as a pre-plant incorporated treatment or at lay-by.

Lay-by Treatment

Cultivate to remove existing weeds and treat when soybeans are well established (10 inches tall). Apply as a directed spray to the soil surface and incorporate using a rolling cultivator set to cut 2 to 4 inches deep or sweep-type cultivator with 3 to 5 sweeps per row middle operated 2 to 3 inches deep. Set incorporation equipment to throw treated soil to the row.

BROADCAST APPLICATION RATES PER ACRE (Pts.)		
Soil Texture	Pre-plant Incorporated	Lay-by Application
Medium	3	1
Fine	3	2

7) Charcoal Soils In AR, LA and MS

Newly cleared land often contains high organic matter (5% to 10%) and charcoal from burning debris. Charcoal and organic matter tends to bind this product and reduce weed control activity. Under these conditions, higher rates of this product are necessary for weed control. Increased rates, however, can cause crop injury if charcoal or organic matter is not present to bind some of this product. In the burn row a high level of charcoal is usually present. Consequently, poor weed control may result, even if an increased rate of this product is used. Follow the application and incorporation procedures for this product.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1.5 to 2.5
Medium	2.5
Fine	3

8) Red Rice Control in AR, LA, MS and TX only

Suppression or partial control of Red rice can be obtained from a 2-year treatment program which consists of a double rate application the first year followed by application in the second year at normal rates indicated for soil texture, organic matter or charcoal content. Apply and incorporate this product in the spring before planting. Follow the soil preparation and incorporation procedures for this product.

BROADCAST APPLICATION RATES PER ACRE		
Soil Texture	Application Year 1 (Pts. / Ac.)	Application Year 2 (Pts. / Ac.)
Coarse	2	1
Medium	3	1.5
Fine	4	2
Coarse soils with 2 to 5% organic matter	3	1.5
Soils with 5 to 10% organic matter	4	2 to 2.5

In AR, LA and MS, if combination of high soil organic matter (5% to 10%) and charcoal are present, apply this product at the following broadcast rates:

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1.5 to 2.5
Medium	2.5
Fine	3

For more information on charcoal soils, see discussion in preceding section.

Precautions (Crop Rotation): The directions for red rice control in soybeans is a two-year program. In the first year following a maximum rate application, plant only Soybeans. During the second year, after applying this product at the normal rate indicated for soil texture and charcoal level, plant only those crops for which this product is registered as a pre-plant treatment or crop injury may result. Rice may be planted during the third year following application of normal use rates in year two.

9) Rhizome Johnsongrass Control in the Eastern U.S. and the State of TX

Rhizome johnsongrass control with this product requires a maximum rate application for two consecutive years. Commercially acceptable control cannot be obtained with only one year of maximum rate use of this product. Carefully follow the special use directions which follow.

Soil Preparation: Satisfactory results are dependent upon proper soil preparation prior to application. Chisel plow to bring rhizomes to the soil surface. Disc twice before application to chop rhizomes into small (2 to 3 inch) pieces and destroy any recently emerged johnsongrass plants.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	2
Medium	3
Fine	4
<ul style="list-style-type: none"> • Use 3 pints for Coarse soils with 2 to 5% organic matter. • Use 4 pints for soils with 5 to 10% organic matter. 	

Spring Application: Apply this product any time before planting in the spring for two consecutive years.

Fall Application: Apply this product after October 15 for two consecutive years.

Split Application: Apply this product at the broadcast rates indicated in the following table both spring and fall for 2 consecutive years.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product
	FALL + SPRING (Pts. / Ac.)
Coarse	1 + 1
Medium	1.5 + 1.5
Fine	2 + 2
Coarse soils with 2 to 5% organic matter	1.5 + 1.5
Soils with 5 to 10% organic matter	2 + 2

Incorporation: Deep incorporation with a tandem disc is essential for good results. Set disc to operate 4 to 6 inches deep and operate at 4 to 6 mph. Two incorporation passes are necessary with the second pass in a different direction than the first.

Cultivation: Some johnsongrass plants will not be controlled. Timely cultivation during the crop season is necessary to remove escaped plants and maintain commercially acceptable control.

Precaution: In the season following a double rate treatment, plant only rice and those crops to which this product can be applied as a pre-plant or crop injury may result.

10) Rhizome Johnsongrass Control with This Product plus Sencor or This Product plus Lexone Tank-mix

Rhizome Johnsongrass control with this product plus Sencor or Lexone requires application for two consecutive years. Apply this product plus Sencor or Lexone as a pre-plant incorporated treatment up to two weeks before planting. This tank-mix controls weeds susceptible to this product plus additional weeds listed on the label for Sencor or Lexone.

Application Rates: See rates listed above for *“Rhizome Johnsongrass Control in The Eastern U.S. and the State of TX”*. Use application rates for soybeans in the label for Sencor or Lexone.

Precaution: Refer to the label for Sencor or Lexone for application rates, additional use directions, precautions, restrictions and limitations prior to applying this product plus Sencor or Lexone tank-mix. Carefully follow all precautions and restrictions on the labels for Sencor or Lexone. Follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture.

11) Wild Cane (Shattercane) Control

Follow the soil preparation and application procedures for this product. Wild cane (shattercane) can germinate throughout the growing season and from greater soil depth than most other weed seeds. Commercially acceptable control of wild cane can be obtained by using increased rates of this product.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	2
Fine	2.5

Incorporation: Deep incorporation with a tandem disc is essential for good wild cane control. Incorporate this product thoroughly with a disc set to cut 4 to 6 inches deep and operate at 4 to 6 mph. Two incorporation passes are necessary with the second in a different direction than the first.

Cultivation: Cultivation during the growing season will improve shattercane control.

Sugar Beets

This Product Alone

Apply this product as an over-the-top spray and incorporate. Apply from the time the first true leaves have formed until plants are 6 inches tall.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.25 to 1.5
Fine	1.25 to 1.5

Incorporation: Set incorporation equipment to move treated soil around the plants in the row. Avoid damage to the sugar beet taproot from incorporation equipment.

Precaution: Cover exposed beet roots with soil before application of this product to reduce the possibility of girdling.

Incorporation with a Tine-Tooth Harrow (For Use In CA, CO, ID, NE, OR, TX, UT, WA and WY)

A tine-tooth harrow (Flextine or Melroe) can be used to incorporate this product in sugar beets. Incorporation with tine-tooth harrow requires two passes in opposite directions over the same set of rows. Set the harrow to

cut 1 to 2 inches deep and operate at 3 to 6 mph. Set incorporation equipment carefully to avoid damage to sugar beet tap root. Use application procedures and broadcast application rates specified in the preceding section.

Tank-mixing or Sequential Treatment

For broader spectrum weed control, other products registered for use in sugar beets may be applied in tank-mix combination with the product or as a sequential treatment following application of this product. When tank-mixing, use the labeled rate of this product. Follow the label *"DIRECTIONS FOR USE"* of each tank-mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. Follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture. See detailed information for tank-mixing in the *"MIXING INSTRUCTIONS"* section of this label.

Sugarcane

This Product Alone

Apply and incorporate this product twice a year. Make the first application of this product in the fall on firmly packed beds immediately after the seed pieces are planted. Make the second application of this product in the spring before or shortly after the cane emerges. Loosen rain-packed beds 2 to 3 inches deep before the Spring application. Take care that incorporation equipment does not damage the seed pieces or emerging shoots.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
All Textures	2 to 4 ¹
¹ Application rate within the rate range may be adjusted according to weed pressure.	

Post-plant Application for Control of Most Annual Grasses, Including Guineagrass (For Use in HI)

Surface apply this product after planting (for plant cane) or after harvesting (for ratoon cane). For best results in plant cane, the soil surface should be smooth and finely tilled. Apply this product as soon as possible after tillage and planting before germination and emergence of grass weeds. For optimum efficacy in ratoon cane, minimize surface residue from previous crop before applying. Apply this product just before anticipated rainfall in non-irrigated and furrow-irrigated sugarcane. Irrigate as soon as possible after applying in drip-irrigated or sprinkle-irrigated Sugarcane to activate this product.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
All Textures	6 to 8

Repeat Applications: Subsequent germination of grass weeds may occur prior to the development of a full dense canopy of sugarcane. If this occurs, additional grass weed establishment is strongly suppressed. One or two additional applications of this product can be applied to maintain weed control during the early crop development period. For repeat applications, direct the spray to the soil surface to minimize interception of the herbicide crop.

Restriction: Do not apply this product as a post-plant surface applied treatment within 180 days of harvest.

Application Up to Lay-by for Plant Cane or Ratoon Cane (For Use in LA and TX)

Apply and incorporate this product in the spring from shortly before or after cane emergence until lay-by. Apply after beds have been shaved or false shaved. Loosen rain-packed beds 2 to 3 inches deep before application. Avoid incorporation equipment damage to seed pieces or emerging shoots. Incorporate with a rolling cultivator or bed chopper for all soil textures. Set rolling cultivator to cut 2 to 4 inches deep and operate at 6 to 8 mph. Set bed chopper to cut 3 to 4 inches deep and operate 4 to 6 mph. Two incorporation passes are necessary.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
All Textures	2 to 4 ¹
¹ Application rate within the rate range may be adjusted according to weed pressure.	

Itchgrass (Raoulgrass) Control (For Use In LA)

Apply and incorporate this product on plant or ratoon cane. Follow use directions in preceding section for lay-by application.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
All Textures	2 to 4

Sunflowers

This Product Alone

Apply and incorporate this product in the spring before planting or in the fall. See instructions for fall application under the “APPLICATION TIMING” section of this label.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.25 to 1.5
Fine	1.5 to 2
<ul style="list-style-type: none"> • Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter. • Use 2 pints for Fine soils with 2 to 5% organic matter. • Use 2 pints for soils with 5 to 10% organic matter. • Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation. 	

Tank-mixing or Sequential Treatment

For broader spectrum weed control, other products registered for use on sunflowers may be applied in tank-mix combinations with this product or as a sequential treatment following application of this product. When tank-mixing, use the labeled rate of this product. Follow the label “DIRECTIONS FOR USE” of each tank-mix partner for applicable use instructions including application rate, application timing, weeds controlled, and specific precautions and restrictions of product use. Follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture. See detailed information for tank-mixing in the “MIXING INSTRUCTIONS” section of this label.

Tomatoes

Apply to direct-seeded tomatoes as a directed spray between rows and beneath plants and incorporate at the time of blocking or thinning. For transplant tomatoes, apply and incorporate before transplanting. Do not apply after transplanting.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.25 to 1.5

Fine	1.5 to 2
<ul style="list-style-type: none"> • Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter. • Use 2 pints for Fine soils with 2 to 5% organic matter. Use 2 pints for soils with 5 to 10% organic matter. • Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation. 	

Trees and Vine Crops (Citrus, Fruit and Nut Crops and Vineyards)

Application to New Plantings of Citrus, Fruit and Nut Crops

New plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, plum, prune, tangelo, tangerine and walnut trees, apply and incorporate this product before transplanting.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1
Medium	1.25 to 1.5
Fine	1.5 to 2
<ul style="list-style-type: none"> • Use 1.5 pints for Coarse and Medium soils with 2 to 5% organic matter. • Use 2 pints for Fine soils with 2 to 5% organic matter. • Use 2 pints for soils with 5 to 10% organic matter. • Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation. 	

Application to New Plantings of Vineyards

For new plantings of Vineyards, apply and incorporate this product before transplanting.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
Coarse	1 to 1.5
Medium	1.5 to 3
Fine	3 to 4
<ul style="list-style-type: none"> • Use 4 pints for soils with 2 to 10% organic matter. • Use lower rate in rate range in areas receiving less than 20 inches total annual rainfall and irrigation. 	

Note: Do not use more than 2 pints per acre on mist-propagated grape rootings.

Application to Established Non-bearing and Bearing Citrus, Fruit and Nut Crops and Vineyards

This product may be applied in established non-bearing and bearing vineyards and plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, plum, prune, tangelo, tangerine and walnut trees. In established plantings, apply this product as a directed spray to the soil and use incorporation methods not injurious to the crop. Do not apply to vineyards within 60 days of harvest.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
All Soil Textures	2 to 4

Application rate within the rate range may be adjusted according to weed pressure.

Special Use Programs

1) Rhizome Johnsongrass Control — Special Two-year Use Program

This product may be applied for two consecutive years in a special use program to control rhizome johnsongrass in established vineyards and plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, tangerine and walnut trees. Do not apply to Vineyards within 60 days of harvest.

Soil Preparation: Work the soil thoroughly to move rhizomes near the soil surface and cut them into smaller pieces.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
All Soil Textures	4

Incorporation: Incorporate this product thoroughly with a disc set to cut 4 to 6 inches deep and operate 4 to 6 mph. Two incorporation passes are necessary, with a second pass in a different direction from the first.

Cultivation: Some johnsongrass plants will escape. Timely cultivations are necessary to obtain commercially acceptable control. Commercially acceptable control cannot be obtained with only a single year use of this product.

Precautions: Do not use the 4-pint rate on new plantings or crop injury may result. Do not interplant orchards or vineyards with other crops. If treated vineyards and orchards are diverted to other crop uses, then in the next cropping season, plant only those crops for which this product has been registered as a pre-plant incorporated treatment.

2) Bindweed Control in CA

This product can be applied using a specially equipped spray blade for the control of field bindweed in vineyards and in plantings of almond, apricot, grapefruit, lemon, nectarine, orange, peach, pecan, tangelo, tangerine and walnut trees.

Soil Preparation: Destroy existing weeds with soil tillage before applying this product. Thorough tillage is necessary to prevent trash from interfering with operation of the spray blade.

Equipment: Application requires a spray blade capable of operation at 4 to 6 inches below the soil surface. The blade should be equipped with nozzles located under the blade and directed to allow spray to be trapped in a thin layer as the blade is pulled through the soil. Use a nozzle spacing sufficient to ensure application of a uniform horizontal layer.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Pts. / Ac.)
All Soil Textures	4

Application: Apply this product in 40 to 80 gallons of water per acre.

Precautions: Some soils may develop cracks as they dry after rainfall or irrigation. Field bindweed may emerge if the cracks extend through the layer of this product. Prevent or eliminate cracks by shallow discing or other tillage. Avoid deep tillage which disturbs the sub-surface layer. Cultivation or tillage also aids the control of germinating seeds.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original container only. Avoid freezing. Store above 40°F. If frozen, poor weed control may result. Do not store near heat or flame. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL:

Nonrefillable Container (rigid material; less than 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 ¼ 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 the container ¼ 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 container (≥ 250 gals. & 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 percent 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.

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

WARRANTY DISCLAIMER

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