



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

19713-701

Date of Issuance:

7/13/18

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Drexel Trifluralin 10G

Name and Address of Registrant (include ZIP Code):

Drexel Chemical Company  
P.O. Box 13327  
Memphis, TN 38113-0327

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 19713-701."
3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Signature of Approving Official:

Kathryn Montague, Product Manager 23  
Herbicide Branch, Registration Division (7505P)

Date:

7/13/18

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

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 2/15/2018
- Alternate CSF 1 dated 3/20/2018

If you have any questions, please contact Nathan Mellor by phone at 703-347-8562, or via email at [mellor.nathan@epa.gov](mailto:mellor.nathan@epa.gov)

Enclosure

**ACCEPTED**

07/13/2018

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 19713-701

TRIFLURALIN    GROUP 3    HERBICIDE

**Drexel**

# Trifluralin 10G

A pre-emergence herbicide for use in Alfalfa; Asparagus; Beans; Carrots, Castor Beans; Celery; Chicory/Endive; Cole Crops; Corn, Cotton; Cottonwood Trees Grown for Pulp; Crop Stubble; Cucurbits; Eggplant; Flax; Forage Legumes; Fruit and Nut Crops and Vineyards; Grain Sorghum (Milo); Greens, Hops, Kenaf, Mustard; Okra; Onions, Peanuts; Peas (Southern); Pepper; Potatoes, Radish, Rapeseed (Canola) & Crambe; Safflower; Small Grains (Barley, Durum, Wheat); Soybeans; Sugar Beets; Sugarcane, Sunflower; Tomatoes; and for the Control of Annual grasses and Broadleaf weeds in Container Grown Ornamentals, Landscape Ornamentals, Nursery Stock, Groundcovers, Established Flowers, Ornamental Bulbs, Non-bearing Fruit and Nut Trees, Non-bearing Vineyards, Christmas Tree Plantations; Non-cropland Areas; Pot Nursery Production of Trees & Shrubs; and Under Paved Surfaces.

**ACTIVE INGREDIENT:**

Trifluralin..... 10.0%

**OTHER INGREDIENTS:** ..... 90.0%

**TOTAL:** ..... 100.0%

Contains 4 pounds of active ingredient per 40 pound bag.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**See FIRST AID Below**

EPA Reg. No. 19713-XXX  
EPA Est. No. 19713-XX-XXX

**Net Content: 40 Lbs. (18.16 Kg)**

**FIRST AID**

**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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact CHEMTREC at 800-424-9300 for emergency medical treatment information.

## **PRECAUTIONARY STATEMENTS**

### **Hazards to Humans and Domestic Animals**

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

#### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:** Long-sleeved shirt and long pants; chemical-resistant gloves including barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, polyethylene, polyvinyl chloride (PVC)  $\geq$  14 mils or viton  $\geq$  14 mils; shoes plus socks and protective eyewear.

#### **USER SAFETY REQUIREMENTS**

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.

#### **USER SAFETY RECOMMENDATIONS**

**Users should:** 1) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 2) 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 toxic to fish. For terrestrial uses, do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff from treatment areas may be hazardous to aquatic organisms in neighboring aquatic sites. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

#### **PRODUCT INFORMATION**

TRIFLURALIN 10G is a pre-emergence herbicide that is incorporated into the soil to provide long lasting control of annual grasses and broadleaf weeds. This product controls weeds as they germinate but will not control established weeds.

#### **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 carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift.

Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **AGRICULTURAL USE REQUIREMENTS**

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

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls, chemical-resistant gloves, shoes plus socks, and protective eyewear.

## WEED RESISTANCE MANAGEMENT

For resistance management, this product is a Group 3 mode of action herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 3 mode of action herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance management strategies should be followed.

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

- Rotate the use of this product or other Group 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 before and 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 including hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management directions for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Drexel Chemical Company representatives at (901) 774-4370.

## USE PRECAUTIONS

- Applied according to the directions and under normal growing conditions, this product will not harm the treated crop. Over-application may result in crop injury or soil residue. Uneven application or improper soil incorporation 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. Under these conditions, delayed crop development or reduced yields may result.
- Application of this to soils that are wet or are subject to prolonged periods of flooding may result in poor weed control.
- **Corn, Proso millet, Oats, Sorghum (Milo) and Annual or Perennial Crops or Grass Mixtures:** In Arizona, Colorado, California, Idaho, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming, do not plant Corn, Proso millet, Oats, Sorghum (Milo) 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 to avoid 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. Moldboard plowing to a depth of 12 inches before planting these crops will reduce the possibility of crop injury.

In Minnesota, North Dakota and South Dakota, do not plant Proso millet, Oats, Sorghum (Milo) 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.

In those portions of Kansas, Nebraska, Oklahoma and Texas that receive less than 20 inches of rainfall and irrigation to produce a crop, do not plant Proso millet, Oats, Sorghum (Milo) 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 areas receiving more than 20 inches of rainfall and irrigation, do not plant these crops for 12 months after a Spring application or 14 months after a Fall application of this product.

- **Red beets, Spinach and Sugar beets:** In Arizona, Colorado, California, Idaho, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming, do not plant Spinach, Sugar beets and Red beets for 12 months after a Spring application or 14 months after a Fall application. 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.

In all other areas, do not plant Red beets, Spinach and Sugar beets 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.

- **Vegetable Crops:** Do not plant Vegetable crops other than those listed on this label for use with pre-plant soil incorporated application of this product within 5 months following application of this product.

## USE RESTRICTIONS

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

## WEEDS CONTROLLED

Common Name	Scientific Name
<b>Grass Weeds:</b>	
Barnyardgrass (Watergrass)	<i>Echinochloa crus-galli</i>
Bluegrass, Annual	<i>Poa annua</i>
Bromegrass (Cheatgrass, Downy brome)	<i>Bromus tectorum</i>
Cheat (Chess)	<i>Bromus secalinus</i>
Cheatgrass	<i>Bromus tectorum</i>
Crabgrass (Large, Smooth)	<i>Digitaria</i> spp.
Cupgrass, Southwestern	<i>Eriochloa gracilis</i>
Foxtail (Bottlegrass, Bristlegrass, Giant, Green, Foxtail millet, Pigeongrass, Robust foxtail, Yellow)	<i>Setaria</i> spp.
Goosegrass (Silver crabgrass, Silvergrass, Wiregrass, Yardgrass)	<i>Eleusine indica</i>
Johnsongrass (from seed)	<i>Sorghum halepense</i>
Junglerice	<i>Echinochloa colonum</i>
Lovegrass (Stinkgrass)	<i>Eragrostis</i> spp.
Oat, Wild*	<i>Avena fatua</i>
Ryegrass, Annual	<i>Lolium multiflorum</i>
Sandbur (Burgrass)	<i>Cenchrus incertus</i>
Shattercane (Wild cane)	<i>Sorghum bicolor</i>
Signalgrass (Brachiaria)	<i>Brachiaria</i> spp.
Sprangletop	<i>Leptochloa filiformis</i>
Woolly cupgrass	<i>Eriochloa villosa</i>
<b>Broadleaf Weeds:</b>	
Carpet weed	<i>Mollugo verticillata</i>
Chickweed, Common	<i>Stellaria media</i>
Florida pusley (Florida purslane, Mexican Clover, Pusley)	<i>Richardia scabra</i>
Goosefoot	<i>Chenopodium hybridum</i>
Henbit	<i>Lamium amplexicaule</i>
Knotweed	<i>Polygonum aviculare</i>
Lambsquarters, Common	<i>Chenopodium album</i>
Nettle, Stinging (Nettle)	<i>Urtica dioica</i>
Pigweed (Carelessweed, Prostate, Redroot, Rough, Spiny)	<i>Amaranthus</i> spp.
Puncturevine (Caltrop, Goathead)**	<i>Tribulus terrestris</i>
Purslane	<i>Portulaca oleracea</i>

\*This product applied as pre-plant incorporated (PPI) will provide partial control of Wild oats. This claim is for all PPI uses except Fall applications for Spring seeded cereals at Foxtail (Pigeongrass) control rates.  
\*\*Western U.S. only.

## APPLICATION DIRECTIONS

### Soil Preparation

This product may be applied to standing stubble or soil that has been pre-tilled. Reduce existing weeds and crop residues to a manageable level using tillage so that this product can be uniformly incorporated into the top 2 to 3 inches of the final seedbed. Soil surface conditions must allow this product to be thoroughly and uniformly mixed into the top 2 to 3 inches of soil. If this is not possible, till the soil prior to application.

### Soil Conditions

The soil surface must be smooth enough so the application and incorporation equipment can be operated efficiently and at speeds which ensure a uniform application and incorporation of this product.

To assure uniform incorporation of this product, soil moisture conditions must be such that large clods can be broken up during the incorporation process. When soil is excessively moist, soil compaction and/or non-uniform incorporation may occur.

### Application

This product may be applied with ground or aerial broadcast application equipment. Apply this product with a properly calibrated herbicide applicator that will apply the granules uniformly. Calibrate the applicator according to the manufacturer's directions and check frequently during the application to be certain that equipment is working properly. Avoid concentration of the material in narrow bands.

Freezing will not adversely affect this product. If product is frozen at time of application, agitate or thaw to produce a free-flowing granule.

### Soil Texture Guide

The amount of this product applied will vary with the soil texture and organic matter. A fine textured soil will require more this product per acre than a coarse soil. Choose the proper rate for each application based on the following soil texture group and specific directions. Do not exceed the specified rates.

Soil Texture	Soil Classification
Course (Light)	Sand, Loamy sand, Sandy loam
Medium	Loam, Silty clay loam*, Silt loam, Silt, Sandy clay loam*
Fine (Heavy)	Clay, Clay loam, Silty clay loam*, Silty clay, Sandy clay, Sandy clay loam*

\*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 Rate Range

Where a rate range is given, use the lower rate for coarser textured soils or soils with low organic matter content. Use the higher rate in the given range for finer textured soils and on soils containing more than 5% organic matter. Where soil texture is variable within the same field, use the lower specified rate of this product.

## TIMING OF APPLICATION

### SPRING APPLICATIONS

Apply this product any time after January 1 when soil can be worked and is in condition suitable for good incorporation. Refer to the "CROPS USE DIRECTIONS" section for directions of use on specific crops.

## FALL APPLICATIONS

**In California, Minnesota, North Dakota and South Dakota:** Apply this product any time between September 1 and December 31.

**In All Other States:** Apply this product any time between October 15 and December 31.

### Use Rates for Fall Applications:

Refer to the "*CROPS USE DIRECTIONS*" section for specific use rates. In some crops grown in certain geographic areas, increased rates for Fall applications are directed. For crops where there are no specific Fall application instructions and this product is directed as a pre-plant incorporated treatment, use the rates listed for Spring applications. In areas receiving greater than 20 inches total average annual rainfall and irrigation, use the higher rate in the given rate range. Do not apply this product prior to planting Potatoes, Sugar beets and direct seeded Tomatoes the following Spring.

Ground may be left flat or bedded-up over Winter. On bedded ground, knock beds down to desired height before planting, moving some treated soil from beds into furrows. Where soil is left flat over Winter, take precaution not to turn up untreated soil during Spring bedding operations. Destroy established weeds during seedbed preparation.

Prior to planting, destroy any weeds which have become established in furrows due to uncovering of untreated soil.

**Use Restriction:** Do not apply this product in the Fall to soils that are wet or subject to prolonged periods of flooding or where Rice was grown the previous year.

## INCORPORATION DIRECTIONS

Use incorporation equipment that mixes this product into the top 2 to 3 inches of the final seedbed or erratic weed control and/or crop injury may result.

Incorporation equipment including disc will mix the granules approximately half as deep as the equipment is set to operate. For example, a disc set to cut 4 inches deep will incorporate most of the granules within the top 2 inches of the final seedbed.

### Incorporation Before Planting

This product must be incorporated one time within 24 hours after application. The second incorporation must be delayed 3 to 5 days after the first, be completed prior to planting, and must be ran in a different direction from the first. Incorporate uniformly into the top 2 to 3 inches of the final seedbed.

### Incorporation After Planting

Check specific crop for incorporation directions after planting.

### Incorporation in Bedded Culture

For effective weed control, incorporate into the top 2 to 3 inches of the final seedbed.

**Application prior to bedding:** Apply and incorporate one time with specified equipment. The bedding operation serves as the second incorporation. Be careful not to expose untreated soil during post-bedding operations.\*

**Application after bedding:** Knock off beds to planting height before applying this product. Apply and incorporate with specified equipment that will conform to bed shape. Be careful not to leave untreated soil exposed.\*

\*Avoid removal of treated soil from the seedbed before or during the planting operation. This would expose untreated soil, allowing weeds to germinate in the drill row.



## **Incorporation Equipment**

Any incorporation tool may be used alone or in combination with any other directed tools. Two incorporation passes are required unless specifically stated. The second incorporation must not be deeper than the first.

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

**Field Cultivator:** Set to cut 3 to 4 inches deep and operate at 5 mph or more. 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.

**Chisel Plow:** (For use in Northern Great Plains) The chisel plow may be used for the first incorporation pass only. Any other specified tool may be used for the second pass for row crops. The chisel plow may be used for any tillage or incorporation pass in the Summer Fallow program. Operate at 4 to 5 inches deep at 4 to 6 mph. A chisel plow is defined as having 3 rows of 14 to 18 inch sweeps on no greater than 12 inch center. Stagger sweeps so that no soil is left unturned. Chisel points must not be used.

**Combination Seedbed Conditioners:** Set to cut 3 to 4 inches deep and operate at a speed of at least 5 mph. These implements are defined as three or more tillage devices combined and used as a single tool. For example, 2 to 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.

**Rolling Cultivator:** Set to cut 2 to 4 inches deep and operate at 6 to 8 mph. Rolling cultivators are adequate for use on coarse and medium textured soils only.

**Mulch Treader (other similar disc-type implements):** Set to cut 3 to 4 inches deep and operate at 5 to 8 mph.

**P.T.O. Driven Equipment (tillers, cultivators, hoes):** Adjust to incorporate into the top 2 to 3 inches of the seedbed with rotors spaced to provide a clean sweep of the soil. Only one incorporation is necessary. Operate P.T.O. driven equipment at a speed less than 4 mph.

**Other Equipment:** Includes flexible tine-tooth harrow (Flexline, Melroe) but only for the special programs for which it is specified in this label.

## **CULTIVATION AFTER PLANTING**

Treated soil may be shallow cultivated without reducing the weed control activity. Do not cultivate deeper than the treated soil since this may bring untreated soil to the surface which may result to poor weed control.

## **CROPS USE DIRECTIONS**

The following directions are given as broadcast rates per acre. Apply any time after January 1 when the soil can be worked and is suitable for good incorporation. Refer to the specific crop for directions.

Where a rate range is shown, use the lower rate for coarser soils or soils with lower organic matter.

**Use Restriction:** Do not use this product on soils containing more than 10% organic matter or on muck soils.

### **ALFALFA (Established)**

Apply this product with ground or aerial equipment to established Alfalfa prior to weed emergence. A single rainfall or overhead sprinkler irrigation of 0.5 inches or more, flood irrigation or furrow irrigation after application is required to activate this product. If activated using furrow irrigation, thoroughly wet the surface of beds between furrows. If

activation does not occur within 3 days after application, activate this product using incorporation equipment that will ensure thorough soil mixing with minimum damage to the established Alfalfa.

This product will control Barnyardgrass, Bromegrass (Cheatgrass, Downy brome), Canary, Cheat (Chess), Crabgrass, Cupgrass, Dodder, Foxtail, Junglerice, Sandbur and Wild Barley at the following rates:

BROADCAST APPLICATION RATES PER ACRE*	
Soil Texture	This Product (Lbs. / Ac.)
All soil textures	20
*Do not apply more than 20 pounds of this product (2 lbs. a.i.) per acre per application. Maximum application rate per acre per year for all soil textures: 40 lbs. of this product (4 lbs. a.i.)	

**Time of Application:** This product may be applied during dormancy or throughout the growing season immediately after a cutting prior to the expected time of weed germination.

**Fall Application:** Apply immediately after a cutting between August 1 and October 1. When Fall applied, this product will control Bromegrass and Cheat in addition to other weeds listed above that germinate after application. Bromegrass and Cheat begin to germinate in the Fall with the onset of cooler weather.

**Use Precaution:** In the season following a 20 pound per acre treatment where established Alfalfa is to be rotated to another crop, plant only those crops for which this product can be applied as a pre-plant treatment or injury may result.

**Use Restrictions**

- Do not harvest Alfalfa forage within 21 days of application.
- Do not harvest Alfalfa hay within 20 days of application of this product.
- Do not apply more than 20 pounds of this product (2 lbs. a.i.) per acre per application.
- Maximum application rate per acre per year for all soil textures: 40 lbs. of this product (4 lbs. a.i.)

**ASPARAGUS (Established)**

This product can be applied to established Asparagus as a single or as a split application.

In the Winter or early Spring, apply this product to Asparagus after ferns are removed but before new spears emergence. Make post-harvest applications immediately after harvest in the late Spring or early Summer before ferns are allowed to develop.

This product will suppress volunteer seedling Asparagus and Field bindweed if the following rates and application schedules are used:

BROADCAST APPLICATION RATES PER ACRE			
Soil Texture	This Product (Lbs./Ac.)		
	Split Application		Single Application
	Before Harvest	+ After Harvest	Before or After Harvest
Coarse	5.0	5.0	10.0*
Medium	7.5	7.5	15.0*
Fine	10.0	10.0	20.0*
*Maximum amount of this product that can be applied per acre for the given soil type in any single calendar year.			

BEANS (ALL DRY AND FRESH BEANS/PEAS EXCEPT BEANS/PEAS LISTED ELSEWHERE ON THIS LABEL)

Apply and incorporate this product in the Spring before planting or in the Fall. See instructions for Fall application under the section "FALL APPLICATIONS" using the following rates:

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	5
Medium	6.25 to 7.5
Fine	7.5 to 10
*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on fine soils with 2 to 5% organic matter and on all soils with 5 to 10% organic matter.	
*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.	

BEANS (GUAR AND MUNGBEAN)

Apply and incorporate this product before planting using the following rates:

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	5
Medium	7.5
Fine	7.5
*Use 7.5 pounds (0.75 lb. a.i.) of this product per acre on soils with 2 to 5% organic matter.	

BEANS (LIMA AND SNAP)

Apply and incorporate this product before planting using the following rates:

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	5
Medium	5
Fine	7.5
*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on soils with 2 to 5% organic matter.	

## CARROTS

Apply and incorporate this product before planting using the following rates:

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)*</b>
Coarse	5
Medium	6.25 to 7.5
Fine	7.5 to 10
<p>*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on fine soils with 2 to 5% organic matter and on all soils with 5 to 10% organic matter.</p> <p>*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.</p>	

## CASTOR BEANS

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

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)*</b>
Coarse	5
Medium	6.25 to 7.5
Fine	7.5 to 10
<p>*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on fine soils with 2 to 5% organic matter and on all soils with 5 to 10% organic matter.</p> <p>*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.</p>	

## CELERY

Apply this product as a soil incorporated treatment to direct seeded or transplant Celery before planting, at planting or immediately after planting.

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)*</b>
Coarse	5
Medium	6.25 to 7.5
Fine	7.5 to 10
<p>*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on fine soils with 2 to 5% organic matter and on all soils with 5 to 10% organic matter.</p> <p>*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.</p>	

## CHICORY/ENDIVE

Apply and incorporate this product before planting using the following rates:

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	5
Medium	7.5
Fine	10
*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on fine soils with 2 to 5% organic matter. On all soils with 5 to 10% organic matter, use 10 to 12.5 lbs. of this product (1 to 1.25 lbs. a.i.) per acre.	

## COLE CROPS (BROCCOLI, BRUSSELS SPROUTS, CABBAGE AND CAULIFLOWER)

### Direct Seeded Cole Crops

Apply this product as a pre-plant soil incorporated treatment. Direct seeded Cole crops exhibit marginal tolerance to higher than specified rates of this product. Stunting or reduced stands may occur.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	5
Medium	5
Fine	7.5
* Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on soils with 2 to 5% organic matter.	

### Transplanted Cole Crops

Apply and incorporate this product prior to transplanting.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	5
Medium	6.25 to 7.5
Fine	7.5 to 10
*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on fine soils with 2 to 5% organic matter and on all soils with 5 to 10% organic matter.	
*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.	

## CORN (FIELD CORN, CORN FODDER, FORAGE AND SILAGE)

This product may be applied as a post-emergence treatment following the use of a pre-emergence herbicide. Uniformly apply to the soil surface when crop is well established (2 true leaf stage or taller) or immediately after a cultivation up to a height of 30 inches. This product will not control established weeds.

**Incorporation Directions:** Incorporate this product within 24 hours after application of the pre-emergence herbicide. Incorporation may be accomplished with one pass of a sweep-type cultivator or properly adjusted rolling cultivator. Use sweep-type cultivator with 3 to 5 sweeps per row middle and be operated at a speed that will provide maximum soil movement. 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 (Lbs. / Ac.)*
Coarse	3.75 to 5
Medium	5 to 7.5
Fine	7.5 to 10

\*Use 5 to 7.5 pounds of this product (0.5 to 0.75 lb. a.i.) per acre on coarse soils in Alabama, Florida, Georgia, North Carolina, South Carolina and Virginia to control Fall panicum and Texas panicum.  
 \*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.

### Use Precaution

- Crop injury may result if this product is applied as a pre-plant or pre-emergence treatment.

### Use Restrictions

- Do not apply this product to Sweet corn or Corn grown for seed.

## COTTON

This product may be applied and incorporated before planting, at planting, immediately after planting (before crop emergence), up to and at lay-by and in the Fall. When incorporating this product after planting (post-plant), be careful not to disturb the seed.

Soil Texture	This Product (Lbs. / Ac.)		
	Spring Application*	Fall Application	
		Eastern U.S.**	Western U.S.***
Coarse	5	10	7.5
Medium	6.25 to 7.5	10	10
Fine	7.5 to 10	12.5	12.5

\*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on fine soils with 2 to 5% organic matter and on all soils with 5 to 10% organic matter. Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.  
 \*\*Use rates for Cotton producing areas in Eastern U.S. including Alabama, Arkansas, northern Florida, Georgia, Louisiana, Mississippi, southern Missouri (Bootheel), North Carolina, New Mexico, Oklahoma, South Carolina, Tennessee, and Texas.  
 \*\*\* Use rates for Cotton producing areas in Western U.S. including Arizona, California and Nevada.

For Fall application in Cotton growing areas other than those listed above, apply this product using the Spring application rates at the higher rates where a range is given.

### Lay-by Application

Apply and incorporate this product any time up to lay-by using the Spring application rates in the above table, but not less than 90 days before harvest. Apply uniformly the granules on the soil surface beneath the Cotton plants. Soil incorporate 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.

### Pre-emergence Overlay Applications Following This Product

Apply this product as a pre-plant incorporated treatment. Additional weeds tolerant to this product may be controlled using overlay applications of products registered for use on Cotton including fluometuron (e.g., Cotoran), diuron (e.g., Diuron 80 & 4L), norflurazon (e.g., Zorial). Such applications may be made unless use following an application of this product is specifically prohibited by the product label. Consult the overlay product label for additional weeds controlled, directions for use, use precautions and limitations before use.

### Post-emergence Applications Following This Product

Apply this product as a pre-plant incorporated treatment. Additional weeds tolerant to this product may be controlled using post-emergence applications of products registered for use on Cotton. Such treatments may be made unless use following an application of this product is specifically prohibited by the product label. Consult the post-emergence product label for additional weeds controlled, directions for use, use precautions and limitations before use.

### Use Restrictions

- Do not apply this product to Cotton within 90 days of harvest.
- Do not apply more than 12.5 pounds of this product (1.25 lbs. a.i.) per acre per application.
- Do not apply more than 20 pounds of this product (2 lbs. a.i.) per acre per crop year (either Fall application thru lay-by or pre-plant plus post-plant thru lay-by).

## COTTONWOOD TREES GROWN FOR PULP

### New Plantings

Apply and incorporate this product before planting using the following rates:

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	5
Medium	6.25 to 7.5
Fine	7.5 to 10
*Use 7.5 to 10 pounds of this product (0.75 to 1 lb. a.i.) per acre on all soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on all soils with 5 to 10% organic matter.	
*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.	

### Established Plantings

Apply this product in established plantings as a ground application. A single rainfall or overhead sprinkler irrigation of 0.5 inch or more or flood irrigation after application is required to activate this product.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
All soils	10 to 20
*Application rate range may be adjusted according to weed pressure.	

**Johnsongrass Suppression**

Proper soil preparation before application is necessary for satisfactory results. Use incorporation methods not injurious to the crop.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)
All soils	20

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.

**CROP STUBBLE OR CROP RESIDUE**

**Fall or Spring Application to Ground with Standing Crop Stubble or Crop Residue for Weed Control in Following Crop**

This product may be applied in the Fall or Spring to ground with standing crop stubble or crop residue for weed control in the following crop. When applied in this manner, the first incorporation must occur within 72 hours after application. The second incorporation must be delayed a minimum of 5 days after the first and may occur any time up to planting. This application is limited to use on ground that has not had a primary tillage treatment following crop harvest. Following application, plant only crops on which this product may be applied as a pre-plant incorporated treatment.

Refer to the use directions for specific crops, including application rates and other use information. Apply at the specified broadcast application rate for the crop, soil texture and target weed species. When applied in the Fall, use the highest rate in the given rate range allowed for the soil texture to be treated.

**Incorporation Directions**

Incorporate this product once using minimum tillage equipment such as the rotary harrow, field cultivator, under cutter chisel plow or other suitable tillage implement. It is desirable to loosen and mix surface soil sufficiently to trap this product, but maintain a surface cover of stubble and crop residue sufficient to protect erosion. The second incorporation may occur any time prior to or in conjunction with tillage operations associated with planting.



## CUCURBITS (CANTALOUPE, CUCUMBER AND WATERMELON)

Apply this product after crop emergence and plants have reached the 3 to 4 true leaf stage of growth. Set incorporation equipment to move treated soil around the base of the plants during incorporation.

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)*</b>
Coarse	5
Medium	6.25 to 7.5
Fine	7.5 to 10

\*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on fine soils with 2 to 5% organic matter and on all soils with 5 to 10% organic matter.  
\*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.

## EGGPLANT

Apply and incorporate this product to a depth of 3 inches before transplanting. Avoid transplanting until soil temperatures have warmed in the late Spring.

<b>BROADCAST APPLICATION RATES PER ACRE*</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)</b>
All soils	10 to 20

\*Use Restriction: Do not make more than 1 application per year.

## FLAX

Apply and incorporate this product in the Fall from September 1 to December 31 in California, Minnesota, North Dakota and South Dakota and between October 15 and December 31 in other states. See "FALL APPLICATIONS" under "TIMING OF APPLICATION" section for additional instructions.

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)</b>
Coarse	5
Medium	7.5
Fine	10

### Special Instructions for Use in Flax

1. Incorporation operations or any other tillage practices performed in the Spring prior to seeding must be relatively shallow so as to maintain a firm seedbed. Pack the seedbed prior to seeding.
2. Use press drill or hoe drill for seeding. Seed into moist seedbed and plant no more than 1.5 inches deep.
3. Delay seeding until soil has warmed sufficiently to allow rapid germination and establishment.

## FORAGE LEGUMES

Apply this product as pre-plant incorporated in Forage legumes used as cover crops or in Acreage Conservation Reserve Program (CRP).

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)*</b>
Coarse	5
Medium	5 to 7.5
Fine	10
*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.	

### Use Precautions

If used under the Acreage Conservation Reserve Program (CRP), follow the most severe grazing restrictions imposed by 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.

## FRUITS, NUT CROPS AND VINEYARDS

**Application to New Plantings of Almond, Apricot, Grapefruit, Lemon, Nectarine, Orange, Peach, Pecan, Plum, Prune, Tangelo, Tangerine and Walnut trees**

Apply and incorporate this product before planting using the following rates:

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)*</b>
Coarse	5
Medium	6.25 to 7.5
Fine	7.5
*Use 7.5 to 10 pounds of this product (0.75 to 1 lb. a.i.) per acre on soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on soils with 5 to 10% organic matter.	
*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.	

### Application to New Plantings of Vineyards

Apply and incorporate before planting using the following rates:

BROADCAST APPLICATION RATES PER ACRE*	
Soil Texture	This Product (Lbs. / Ac.)**
Coarse	5 to 7.5
Medium	7.5 to 15
Fine	15 to 20

\* On heat-treated Grape rootings, do not use more than 10 pounds of this product (1 lb. a.i.) per acre.  
\*\* Use 15 to 20 pounds of this product (1.5 to 2 lbs. a.i.) per acre on soils with 2 to 10% organic matter. Use the lower rate in the rate range in areas receiving less than 20 inches total annual rainfall and irrigation.

### Use Restriction

- Do not use more than 10 pounds of this product (1 lb. a.i.) per acre on heat-treated Grape.

### Application to Established Non-Bearing and Bearing Almond, Apricot, Grapefruit, Lemon, Nectarine, Orange, Peach, Pecan, Plum, Prune, Tangelo, Tangerine and Walnut trees and Vineyards

In established plantings, apply to the soil surface and use incorporation methods not injurious to the crop.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
All soil textures	10 to 20

\* Use the higher rate in the rate range for longer term weed control.

**Pre-Harvest Interval (PHI):** For Vineyards – 60 days.

### GRAIN SORGHUM (MILO)

This product may be applied as a post-emergence treatment following the use of a pre-emergence herbicide. Uniformly apply this product to the soil surface when Grain sorghum is at least 8 inches tall. This product will not control established weeds.

**Soil Preparation:** Cultivate before application to remove established weeds and cover the base of plants with soil. Set cultivation equipment to add approximately one inch of soil to the base of Sorghum plants.

**Incorporation Directions:** Incorporate this product within 24 hours after application. Incorporation may be accomplished with one pass of a sweep-type cultivator or properly adjusted rolling cultivator. Use sweep-type cultivator with 3 to 5 sweeps per row middle and be operated at a speed that will provide maximum soil mixing. Set middle sweeps to avoid exposing untreated soil. Adjust incorporation equipment to avoid mechanical injury to the crop.

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)*</b>
Coarse	4 to 5
Medium	5 to 7.5
Fine	7.5 to 10
*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.	

GREENS (TURNIP GREENS GROWN FOR PROCESSING, COLLARD, KALE AND MUSTARD GREENS)

Apply to as a pre-plant incorporated treatment using the following rates:

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)</b>
Coarse	5
Medium	7.5
Fine	7.5

HOPS

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

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)*</b>
Coarse	5
Medium	6.25 to 7.5
Fine	6.25 to 7.5
*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium soils with 2 to 5% organic matter.	

## KENAF

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

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)*</b>
Coarse**	3.75 to 5
Medium	5 to 7.5
Fine	7.5 to 10

\*Use the higher rate in the rate range where high weed populations are anticipated.  
\*\*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse soils with 2 to 5% organic matter.

### Use Restriction

- Do not use treated Kenaf for food, forage or feed.

## MUSTARD (GROWN FOR SEED OR PROCESSING FOR FOOD)

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

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)</b>
Coarse	5
Medium	7.5
Fine	7.5

## 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.

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)*</b>
Coarse	5
Medium	6.25 to 7.5
Fine	7.5 to 10

\*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on fine soils with 2 to 5% organic matter and on all soils with 5 to 10% organic matter.  
\*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.

## ONIONS (DRY BULBS ONLY)

Incorporate this product by operating sweep-type or rolling cultivator set to cut 2 to 4 inches deep and operated 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.

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.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	3.75 to 5
Medium	5 to 6.25
*Use the higher rate in the given rate range where heavy weed pressures are anticipated.	

**Pre-Harvest Interval (PHI):** 60 days

## PEANUTS

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 RATE PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)
Coarse	5
Medium	7.5

## PEAS (DRY PEAS, ENGLISH PEAS)

Apply and incorporate this product in the Spring before planting or in the Fall. See "*FALL APPLICATIONS*" under "*TIMING OF APPLICATION*" section for additional instructions.

BROADCAST APPLICATION RATE PER ACRE		
Soil Texture	This Product (Lbs. / Ac.)	
	Spring Application	Fall Application*
Coarse	5	5
Medium	5	6.25 to 7.5
Fine	7.5	7.5
*This product may be applied in the Fall to Dry and English Peas in the states of Idaho, Oregon and Washington.		

## PEAS (SOUTHERN PEAS)

Apply and incorporate this product before planting.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	5
Medium	6.25 to 7.5
Fine	7.5 to 10

\*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on fine soils with 2 to 5% organic matter and on all soils with 5 to 10% organic matter.  
\*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.

## PEPPERS (TRANSPLANT ONLY)

Apply and incorporate this product prior to transplanting.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	5
Medium	6.25 to 7.5
Fine	7.5 to 10

\*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on fine soils with 2 to 5% organic matter and on all soils with 5 to 10% organic matter.  
\*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.

## POTATOES (Except Maine)

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, emergence of Potato 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 foliage with treated soil. Likewise, do not completely cover foliage during subsequent cultivations. Be careful that incorporation equipment does not damage seed pieces or elongating sprouts.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	5
Medium	6.25 to 7.5
Fine	7.5 to 10
*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on soils with 5 to 10% organic matter.	
*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.	

## RADISH

Apply and soil incorporate this product before planting using the following rates:

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	5
Medium	7.5
Fine	7.5

## RAPESEED (CANOLA) AND CRAMBE

Apply and soil incorporate this product in the Spring, late Summer or in early Fall before planting. See "FALL APPLICATIONS" under "TIMING OF APPLICATION" section for additional instructions.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)
Coarse	5
Medium	7.5
Fine	10

### Use Precaution

- To avoid crop injury, plant only those crops to which this product may be applied as pre-plant incorporated treatment as rotation crops in the season following application of this product.

### Use Restrictions

- Do not use in Alaska on Rapeseed (Canola).
- Do not graze or harvest Crambe for livestock forage.



## SAFFLOWERS

Apply and incorporate this product in the Spring before planting or in the Fall. See “*FALL APPLICATIONS*” under “*TIMING OF APPLICATION*” section for additional instructions.

BROADCAST APPLICATION RATES PER ACRE		
Soil Texture	This Product (Lbs. / Ac.)*	
	Spring Application	Fall Application**
Coarse	5	5
Medium	6.25 to 7.5	10
Fine	7.5 to 10	12.5

\*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on fine soils with 2 to 5% organic matter. Use 10 to 12.5 pounds of this product (1 to 1.25 lbs. a.i.) per acre on all soils with 5 to 10% organic matter. Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.

\*\*This product may be applied to Safflowers in the Fall in Arizona, California, Idaho, Montana, Nevada, Oregon, Utah, Washington and Wyoming.

## SMALL GRAINS (BARLEY, DURUM AND WHEAT)

### Use Precautions

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 possibly reduced yield.

For best results, observe the following:

- Use tillage methods that provide a uniformly firm seedbed and time tillage operations to conserve moisture.
- If irrigation is used, irrigate prior to planting or after germination and emergence. Moisture received between planting and emergence may cause crusting, especially on loose, friable seedbeds.
- Application rates must be followed. 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 specified 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 to not disturb planted seed.
- Set drills to place seed at a depth of 1 to 2 inches. 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. Avoid use of small seed with low starch reserves.
- If seed treatments are used, apply at the correct rate and uniformly across all seeds. Misapplication may result in reduced germination and/or seedling vigor.
- Avoid the use of seed varieties known to have poor seedling (emergence) vigor.
- 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.

### Use Restrictions

- Do not apply this product in the Fall in combination with any other pre-plant incorporated herbicide.
- Do not apply this product on Small grains where a dinitroaniline herbicide including this product was applied at a rate used for row crops (oil seeds) during the previous growing season.

### Incorporation Instructions / Equipment

Use incorporation equipment in the manner described below unless otherwise specified in use directions. Any of the following implements listed below may be used for the first incorporation of this product. Use only the disc or field cultivator for the second incorporation pass and incorporate in a different direction. Poor weed control may result if untreated soil is moved to the surface during the second incorporation pass. To avoid this problem, make the second incorporation no deeper than the first.

**Chisel Plow:** This may be used for the first incorporation pass only. Operate at 4 to 5 inches deep and 4 to 6 mph. A chisel plow is defined as having 3 rows of 14 to 18 inch sweeps on no greater than 12 inch centers. Stagger sweeps so that no soil is left unturned. Use of chisel points may result in inadequate soil mixing.

**Tandem Disc:** Operate at 3 to 4 inches deep and at 4 to 6 mph.

**Field Cultivator:** Operate at 3 to 4 inches deep and at 5 or more mph. A field cultivator is defined as having 3 to 4 rows of sweeps with "c" or "s" shaped shanks on no greater than 7 inch centers. Stagger sweeps so that no soil is left unturned.

### Barley, Spring Seeded (Fall Application) for Weed Control During the Following Season (Minnesota, North Dakota, and South Dakota)

For weed control (except for special rate or use programs) in Minnesota, North Dakota and South Dakota. Apply in the Fall for weed control during the following growing season. Incorporate one time within 24 hours. Incorporate a second time before planting to destroy existing weeds and ensure uniform distribution of this product in treated soil. For best weed control results, make the second incorporation at least 7 days after the first.

**Note:** See "INCORPORATION INSTRUCTIONS / EQUIPMENT" under the "SMALL GRAIN" section for directions.

**Planting Directions:** Set planting equipment to place seed approximately 2 inches deep.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)
Coarse	5
Medium	7.5
Fine	7.5

**Note:** While use of this practice may result in a stand reduction, slight stand reductions do not normally affect yield.

**Barley, Spring Seeded (Spring Application) for Foxtail (Pigeongrass) Control (Minnesota, North Dakota, and South Dakota)**

Apply in the Spring as a pre-plant incorporated treatment for Foxtail (Pigeongrass) control in Spring seeded Barley. Incorporate one time within 24 hours. Incorporate a second time before planting to destroy existing weeds and ensure uniform distribution of this product in treated soil. For best weed control results, make the second incorporation at least 7 days after the first.

**Note:** See “INCORPORATION INSTRUCTIONS / EQUIPMENT” under the “SMALL GRAIN” section for directions.

**Planting Directions:** Set planting equipment to place seed approximately 2 inches deep.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)
Coarse	5
Medium	5
Fine	5

**Note:** While use of this practice may result in a stand reduction, slight stand reductions do not normally affect yield.

**Barley, Spring Seeded - Spring Application for Foxtail (Pigeongrass) Control in Barley Used as a Cover Crop or in the Acreage Conservation Reserve Program (Minnesota, North Dakota and South Dakota)**

Apply this product in the Spring as a pre-plant incorporated treatment to control Foxtail (Pigeongrass) in Spring seeded Barley used as a cover crop or to acreage in the conservation reserve programs. Incorporate one time within 24 hours. Incorporate a second time before planting to destroy existing weeds and ensure uniform distribution of this product in treated soil. For best weed control results, make the second incorporation at least 7 days after the first.

**Note:** See “INCORPORATION INSTRUCTIONS / EQUIPMENT” under the “SMALL GRAIN” section for directions.

**Planting Directions:** Set planting equipment to place seed approximately 2 inches deep.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)
Coarse	5
Medium	7.5
Fine	7.5

**Use Precautions:** Use of this practice may result in a slight stand reduction. Follow the most severe grazing restrictions imposed by this label 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 the USDA grazing restriction.

**Spring Seeded Durum or Wheat - Spring, Pre-plant Incorporated Application for Suppression of Foxtail (Pigeongrass) (North Dakota West of the Red River Valley and in South Dakota)**

Apply this product in the Spring as a pre-plant, incorporated treatment for suppression of Foxtail (Pigeongrass) in Spring seeded Durum or Wheat.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)
All soil types	4

**Incorporation Directions:** Make the first incorporation within 24 hours after application. Incorporate a second time before planting to destroy existing weeds and ensure uniform distribution of product in treated soil. Delay the second incorporation at least 14 days after the first. Operate equipment to place this product into the upper 1.5 to 2 inches of soil.

**Note:** See *"INCORPORATION INSTRUCTIONS / EQUIPMENT"* under the *"SMALL GRAIN"* section for directions. Use a chisel plow (first incorporation only) or a field cultivator.

**Planting Directions:** Set planting equipment to place seed 1.5 to 2 inches deep. Follow directions carefully under the *"SMALL GRAINS"* section except place this product in the upper 1.5 to 2 inches of soil.

**Spring Seeded Durum or Wheat - Fall Applied, Pre-plant Incorporated for Suppression of Foxtail (Pigeongrass) (North Dakota West of the Red River Valley and in South Dakota)**

Apply this product in the Fall as a pre-plant incorporated treatment for suppression of Green and Yellow foxtail (Pigeongrass) in Spring seeded Durum or Wheat.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	3.5 to 4
Medium	3.5 to 4
Fine	5
*Use the higher rate in the given rate range where heavy weed pressures are anticipated.	

**Incorporation Directions:** Incorporate one time within 24 hours. Incorporate a second time before planting to destroy existing weeds and ensure uniform distribution of product in treated soil. Make the second incorporation 3 to 5 days after the first. Operate equipment to place this product into the upper 1.5 to 2 inches of soil.

**Note:** See *"INCORPORATION INSTRUCTIONS / EQUIPMENT"* under the *"SMALL GRAIN"* section for directions. See instructions for chisel plow or field cultivator.

**Planting Directions:** Set equipment to place seed 1.5 to 2 inches deep.

**Use Precautions:** Refer to the *"SMALL GRAINS"* section for use precautions before application.

**Spring Seeded Durum or Wheat - Fall Application for Foxtail (Pigeongrass) Control During the Following Growing Season**

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 ensure a uniform distribution of this product in treated soil.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)
Coarse	5
Medium	5
Fine	5

**Note:** See “INCORPORATION INSTRUCTIONS / EQUIPMENT” under the “SMALL GRAIN” section for directions.

**Planting Directions:** Set planting equipment to place seed approximately 2 inches deep.

**Use Precaution:** While use of this practice may result in a stand reduction, slight stand reductions do not normally affect yield.

**Winter Wheat – This Product Pre-plant Incorporated to Control Cheatgrass and Other Annual Grasses (Colorado, Idaho, Kansas, Nebraska, Oregon, and Washington)**

Apply this product as a pre-plant incorporated treatment up to 3 weeks before planting.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)
Coarse	7.5
Medium	7.5
Fine	10

**Incorporation Directions:** Incorporate this product with a flexible tine-tooth harrow (Flextine or Melroe), set to cut 1 to 2 inches deep and operated at 3 to 6 mph. Thorough incorporation requires 2 incorporation passes over the field in different directions. Incorporate one time within 24 hours after application. Make a second incorporation pass prior to planting at least 5 days after the first. **Use Restriction:** 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 where this product has been incorporated.

**Use Precaution:** Avoid planting Wheat directly into the zone of soil treated with this product as delayed emergence or stand reduction may occur. Delayed emergence or slight stand reduction does not normally affect yield.

### **Winter Wheat - Fallow Soil Application of This Product to Control Annual Grass Prior to Planting (Colorado, Idaho, Kansas, Nebraska, Oregon, and Washington)**

Apply and shallowly incorporate this product up to 4 months before planting to control Cheatgrass and certain other annual grasses and broadleaf weeds during the fallow period and during the following growing season. Apply any time from May to September prior to Fall planting of Winter wheat.

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)</b>
Coarse	7.5
Medium	7.5
Fine	10

**Incorporation Directions:** Incorporate this product with a flexible tine-tooth harrow (Flextine or Melroe), set to cut 1 to 2 inches deep and operated at 3 to 6 mph. Thorough incorporation requires two incorporation passes over the field in different directions. Incorporate one time within 24 hours after application. Make a second incorporation pass prior to planting at least 5 days after the first. **Use Restriction:** 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 where this product has been incorporated.

**Use Precaution:** Avoid planting Wheat directly into the zone of soil treated with this product as delayed emergence or stand reduction may occur. Delayed emergence or slight stand reduction does not normally affect yield.

### **Summer Fallow Weed Control with This Product Followed by Spring Seeded Barley, Durum or Wheat**

This product may be applied to coarse medium and fine textured soils to control listed weeds in the Summer fallow period and for control of Foxtail (Pigeongrass) in Barley, Durum or Wheat seeded the following Spring.

This product may be applied to standing stubble or land which has been fallowed or pre-tilled. Reduce existing weeds, surface trash or crop litter by tillage if present in quantities that will prevent uniform soil incorporation. The first incorporation is required within 24 hours after application. The second incorporation may occur in conjunction with tillage to destroy resistant weed growth during the remainder of the fallow year. During the fallow year, susceptible weeds may not be controlled until after the second incorporation

BROADCAST APPLICATION RATES PER ACRE		
Time of Application	This Product (Lbs. / Ac.)*	
	Areas Receiving Less than 10" Annual Rainfall	All Other Areas
April 15 to April 30	8.75	10
May 1 to May 31	7.5 to 8.75	8.75 to 10
June 1 to June 30	6.25 to 7.5	7.5 to 8.75
July 1 to July 31	5 to 6.25	6.25 to 7.5
August 1 to August 31	5	5 to 6.25

\* Where a rate range is given, use the higher listed rate per acre during the early part of an application period and the lower listed rate per acre during the latter part of an application period.

**Note:** See "INCORPORATION INSTRUCTIONS / EQUIPMENT" under the "SMALL GRAIN" section for directions.

**Planting Directions:** Seed approximately 2 inches deep Barley, Durum or Wheat.

**Use Precaution:** While use of this practice may result in a stand reduction, slight stand reductions do not normally affect yield.

## SOYBEANS

### SPRING APPLICATIONS

Apply and incorporate this product in the Spring prior to planting.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	5
Medium	7.5
Fine	10

\*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on fine soils with 2 to 5% organic matter. Use 10 to 12.5 pounds of this product (1 to 1.25 lbs. a.i.) per acre on all soils with 5 to 10% organic matter.

### FALL APPLICATIONS

Apply and incorporate this product any time between October 15 and December 31. Ground may be left flat or bedded-up over Winter.

On bedded ground, knock beds down to desired height before planting, moving some treated soil from tops into furrows. Where soil is left flat over Winter, take care during Spring bedding operations to prevent turning up untreated soil. Destroy established weeds during seedbed preparation. If weeds become established in furrows due to uncovering of untreated soil during listing, destroy these weeds before planting.

**Use Restriction:** In the Fall, do not apply to soils which are wet, are subject to prolonged periods of flooding or where Rice was grown the previous year.

**For Soybeans grown in Alabama, Arkansas, Florida (Northern), Georgia, Louisiana, Mississippi, Missouri (Bootheel), North Carolina, Oklahoma, South Carolina, Tennessee, and Texas:** Apply and incorporate this product using the following rates:

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)
Coarse	10
Medium	10
Fine	12.5

**For Soybeans grown in States Other than those listed above:** Apply and incorporate this product using the following rates:

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	5
Medium	7.5
Fine	10

\*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium soils with 2 to 5% organic matter. Use 10 to 12.5 pounds of this product (1 to 1.25 lbs. a.i.) per acre on fine soils and on all soils with 5 to 10% organic matter.

**PRE-EMERGENCE OVERLAY APPLICATIONS FOLLOWING APPLICATIONS OF THIS PRODUCT (Except California)**

Apply this product as a pre-plant incorporated treatment. Additional weeds tolerant to this product may be controlled using pre-emergence overlay applications of chlorimuron-ethyl + metribuzin (e.g., Canopy®), imazaquin (e.g., Scepter®), imazethapyr (e.g., Pursuit®), linuron (e.g., Lorox®), metolachlor (Me-Too-Lachlor™), metribuzin (e.g., Sencor®) or other products registered for use on Soybeans. Such treatments may be made, unless use following application of this product is specifically prohibited by the product label. Consult the overlay or post-emergence product label for additional weeds controlled, directions for use, precautions, and limitations before use.

**POST-EMERGENCE TREATMENTS FOLLOWING APPLICATIONS OF THIS PRODUCT (Except California)**

Apply this product as a pre-plant incorporated treatment. Additional weeds tolerant to this product may be controlled using post-emergence applications of acifluorfen (e.g., Blazer®), bentazon (e.g., Basagran®), chlorimuron-ethyl (e.g., Classic®), fomesafen (e.g., Foma™, Reflex®), lactofen (e.g., Cobra®) or other products registered for use on Soybeans. Such treatments may be made, unless use following application of this product is specifically prohibited by the product label. Consult the overlay or post-emergence product label for additional weeds controlled, directions for use, precautions, and limitations before use.



## SPECIAL USE PROGRAMS – SOYBEANS GROWN UNDER REDUCED OR CONSERVATION TILLAGE

Apply in the Fall or Spring as pre-plant incorporated treatment to control weeds in Soybeans grown under reduced or conservation tillage conditions.

Apply to tilled land, standing or chopped stubble from the previous season's crop. Mix this product thoroughly and uniformly into the top 2 to 3 inches of the final seedbed using incorporation equipment leaving a maximum amount of crop residue on the soil surface.

BROADCAST APPLICATION RATES PER ACRE		
Soil Texture	This Product (Lbs. / Ac.)*	
	Annual Rainfall Less than 20 Inches	Annual Rainfall Greater than 20 Inches
Coarse	5 to 7.5	7.5 to 10
Medium	7.5 to 10	10 to 12.5
Fine	10 to 12.5	12.5 to 15

\*Use the higher rate in the given rate range where higher crop residues are present or where dense weed populations are expected.

## SUGAR BEETS

Broadcast this product ovetop when plants are between 2 and 6 inches tall using the following rates. Set incorporation machinery to throw treated soil toward the plants in the row. Be careful that the incorporation machinery does not damage the Sugar beet taproot. **Note:** Cover exposed Beet roots with soil before application to reduce the possibility of girdling.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	5
Medium	6.25 to 7.5
Fine	6.25 to 7.5

\*Use the higher rate in the given rate range in areas receiving more than 20 inches average annual rainfall.

## SUGARCANE

Apply and incorporate this product twice a year. Make the first application in the Fall on firmly packed beds immediately after the seed pieces are planted. Make a second application in the Spring before or shortly after the cane emerges. Loosen rain-packed beds 2 to 3 inches deep before 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 (Lbs. / Ac.)*
All soil types	10 to 20

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

**Applications up to Lay-by for Plant Cane or Ratoon Cane (Louisiana and Texas)**

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 at 4 to 6 mph. Two incorporation passes are necessary.

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)*</b>
All soil types	10 to 20
*Application rate within rate range may be adjusted according to weed pressure.	

**Itchgrass (Raoulgrass) Control (Louisiana)**

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

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)*</b>
All soil types	10 to 20
*Application rate within rate range may be adjusted according to weed pressure.	

**SUNFLOWER**

Apply and incorporate this product in the Spring or in the Fall between September 15 and December 31 in California, Minnesota, North Dakota, and South Dakota, and between October 15 and December 31 in other states.

<b>BROADCAST APPLICATION RATES PER ACRE</b>	
<b>Soil Texture</b>	<b>This Product (Lbs. / Ac.)*</b>
Coarse	5
Medium	6.25 to 7.5
Fine	7.5 to 10
*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on all soils with 5 to 10% organic matter.	
*Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.	

## TOMATOES

For direct-seeded Tomatoes, apply at the time of blocking or thinning to the soil between rows and beneath the plants and incorporate. For transplant Tomatoes, apply and incorporate before transplanting. **Use Restriction:** Do not apply this product after transplanting.

BROADCAST APPLICATION RATES PER ACRE	
Soil Texture	This Product (Lbs. / Ac.)*
Coarse	5
Medium	6.25 to 7.5
Fine	7.5 to 10
<p>*Use 7.5 pounds of this product (0.75 lb. a.i.) per acre on coarse and medium textured soils with 2 to 5% organic matter. Use 10 pounds of this product (1 lb. a.i.) per acre on fine soils with 2 to 5% organic matter. Use 10 pounds of this product per acre (1 lb. a.i.) on all soils with 5 to 10% organic matter.            *Use the higher rate in the given rate range in areas receiving greater than 20 inches total annual rainfall and irrigation.</p>	

## CONTAINER GROWN ORNAMENTALS, LANDSCAPE ORNAMENTALS, NURSERY STOCK, GROWDCOVERS, ESTABLISHED FLOWERS, ORNAMENTAL BULBS, NON-BEARING FRUIT AND NUT TREES, NON-BEARING VINEYARDS, AND CHRISTMAS TREE PLANTATIONS

This product is for use as a pre-emergence treatment for control of certain annual grasses and broadleaf weeds in container grown ornamentals, landscape ornamentals, nursery stock, groundcovers, established flowers, ornamental bulbs, non-bearing fruit and nut trees, non-bearing vineyards, and Christmas tree plantations.

Apply this product at the rate of 40 pounds per acre (9 lbs./1000 sq. ft.) before or after planting but prior to germination of target weeds or immediately after cultivation.

Length of weed control will vary with weed population, potting media or soil conditions, temperature, watering regime, and other factors.

Following application of this product, monitor and observe level of weed control over time to determine when additional applications may be needed. Repeat application must not be made sooner than 60 days after a previous application of this product. **Use Restriction:** Do not apply more than 120 pounds per acre (12 lbs. a.i.) total of this product within a 12 month period.

This product does not control established weeds. Control existing weeds by cultivation or with post-emergence herbicides. Remove weed residues, prunings and trash or thoroughly mix into the soil prior to treatment. Soil must be in good condition and free of clods at the time of application.

A single rainfall or sprinkler irrigation of 0.5 inches or more or flood irrigation is required to activate this product. Optimum weed control is obtained when this product is activated within 3 days of application. If rainfall or irrigation has not occurred within 3 days of application and tillage is possible. This product may be activated using cultivation equipment capable of uniformly mixing the herbicide into the upper 1 to 2 inches of soil. Failure to activate this product within 3 days of application may result in erratic weed control. Do not apply when wind conditions favor drift of this product from the target area to avoid possible injury to unintended target plants. Optimum weed control will be obtained when followed by overhead irrigation or rainfall within a few hours after surface application.

**Special Use Precautions:**

To avoid possible injury, do not apply this product to the following:

- Nursery forest or Christmas tree seedling beds, cutting beds or transplant beds.
- Unrooted liners or cuttings that have been planted in pots for the first time.
- Pots less than 4 inches wide.
- Groundcovers until they are established and well rooted.

**Use Restrictions:**

- Do not apply this product to newly transplanted ornamentals, nursery stock, groundcovers, flowers, non-bearing fruits and nut crops and non-bearing vineyards until soil or potting media has been settled by packing and irrigation or rainfall and no cracks are present or injury may occur.
- Do not make pre-plant applications of this product to areas where Gladioli corms less than 1 inch in diameter will be planted or injury may occur.
- Do not apply this product in greenhouse or other enclosed structures.

Users who wish to use this product on plant species not listed on this label may determine suitability for such uses by making trial application of this product at specified rate to small number of plants. Prior to using this product on a larger number of plants, observe treated plants for signs of herbicidal injury during 30 to 60 days of normal growing conditions to determine if the treatment is non-injurious to the target plant species. **The user assumes responsibility for any plant damage or other liability resulting from the use of this product on plant species not listed on this label.**

This product may be used on the following established plant species when container grown or field grown:

**ESTABLISHED FLOWERS**

Common Name	Scientific Name
Aaron's beard	<i>Hypericum calycinum</i>
African daisy	<i>Arctotis</i> spp.
Alyssum	<i>Alyssum</i> spp.
Aster (perennial)	<i>Aster</i> spp.
Baby's breath	<i>Gypsophila paniculata</i>
Balsam	<i>Impatiens balsamina</i>
Beard tongue	<i>Penstemon barbatus</i>
Bee balm	<i>Monarda didyma</i>
Begonia	<i>Begonia</i> spp.
Blackeyed Susan	<i>Rudbeckia hirta</i>
Bleeding heart	<i>Dicentra eximia</i>
Calendula	<i>Calendula officianalis</i>
California poppy	<i>Eschscholzia californica</i>
Chrysanthemum	<i>Chrysanthemum</i> spp.
Common foxglove	<i>Digitalis purpurea</i>
Coral bells	<i>Heuchera</i> spp.
Coreopsis	<i>Coreopsis</i> spp.
Cornflower	<i>Centaurea cyanus</i>
Cosmos	<i>Cosmos</i> spp.
Dahlia	<i>Dahlia</i> spp.
Dianthus	<i>Dianthus</i> spp.
Dusty miller	<i>Artemisia stellerana</i>
English lavender	<i>Lavandula angustifolia</i>
Floss flower	<i>Ageratum houstonianum</i>
Forget-me-not	<i>Myosotis</i> spp.
Four o'clock	<i>Mirabilis jalapa</i>
Foxglove	<i>Digitalis mertonensis</i>
Gaillardia	<i>Gaillardia</i> spp.
Gayfeather	<i>Liatris spicata</i>
Geranium	<i>Geranium</i> spp.
Geum	<i>Geum</i> spp.
Gladiolus	<i>Gladiolus</i> spp.
Golden glow	<i>Rudbeckia laciniata</i>
Guara	<i>Guara lindheiveri</i>

Impatiens	<i>Impatiens</i> spp.
Iris	<i>Iris</i> spp.
Ixora	<i>Ixora</i> spp.
Lamb's ears	<i>Stachys</i> spp.
Lobelia	<i>Lobelia</i> spp.
Lupine	<i>Lupinus</i> spp.
Marigold	<i>Tagetes</i> spp.
Marigold, cape	<i>Dimorphotheca</i> spp.
Morningglory	<i>Convolvulus</i> spp.
Nasturtium	<i>Tropaeolum</i> spp.
Nicotiana	<i>Nicotiana</i> spp.
Ozark sundrop	<i>Oenothera missouriensis</i>
Painted daisy	<i>Tanacetum coccineum</i>
Petunia	<i>Petunia hybrida</i>
Phlox	<i>Phlox</i> spp.
Pincushion flower	<i>Scabiosa</i> spp.
Poppy, California	<i>Papaver</i> spp.
Portulaca	<i>Portulaca grandiflora</i>
Purple coneflower	<i>Echinacea purpurea</i>
Rose	<i>Rosa</i> spp.
Russian sage	<i>Perovskia atriplicifolia</i>
Salvia	<i>Salvia</i> spp.
Shasta daisy	<i>Leucanthemum superbum</i>
Silver mound	<i>Artemisia schmidtiana</i>
Snapdragon	<i>Antirrhinum majus</i>
Snow-on-the-mountain	<i>Euphorbia marginata</i>
Speedwell	<i>Veronica spicatum</i>
Statice	<i>Limonium</i> spp.
Stock	<i>Matthiola</i> spp.
Stoke's aster	<i>Stokesia laevis</i>
Stonecrop	<i>Sedum spectabile</i>
Sunflower	<i>Helianthus</i> spp.
Sweet alyssum	<i>Lobularia maritima</i>
Sweet pea	<i>Lathyrus odoratus</i>
Sweet sultan	<i>Centaurea moschata</i>
Velvet centaurea	<i>Centaurea gymnocarpa</i>
Vinca	<i>Vinca</i> spp.
Yarrow	<i>Achillea</i> spp.
Zinnia	<i>Zinnia</i> spp.

## GROUNDCOVERS

Common Name	Scientific Name
Aaron's beard	<i>Hypericum</i> spp.
Albo-marginata hosta	<i>Hosta lancifolia</i>
Algerian ivy	<i>Hedera canariensis</i>
Angelwing jasmine	<i>Jasminum nitidum</i>
Asian jasmine	<i>Trachelospermum asiaticum</i>
Asparagus fern	<i>Asparagus densiflorus</i>
Beechgrass	<i>Ammophila breviligulata</i>
Bellflower	<i>Campanula</i> spp.
Big blue lily turf	<i>Liriope muscari</i>
Blue fescue	<i>Festuca ovina glauca</i>
Cape weed	<i>Arctotheca calendula</i>
Carpet bugle	<i>Ajuga</i> spp.
Coreopsis	<i>Coreopsis</i> spp.
Cotoneaster	<i>Cotoneaster</i> spp.
Creeping wirevine	<i>Muehlenbeckia axillaris</i>
Crown vetch	<i>Coronilla vana</i>
Daylily	<i>Hemerocallis</i> spp.

Descampsia	<i>Descampsia caespitosa</i>
Dwarf mondo grass	<i>Ophiopogon japonicas</i>
Dwarf plumbago	<i>Ceratostigma plumbaginoides</i>
English ivy	<i>Hedera helix</i>
Eulalia grass	<i>Miscanthus sinensis</i>
Fountain grass	<i>Pennisetum alopecuroides</i>
Gazania	<i>Gazania</i> spp.
Germander	<i>Teucrium chamaedrys</i>
Golden hakonechloa	<i>Hakonechloa macroaureola</i>
Green/creeping lily turf	<i>Liriope spicata</i>
Iceplant	<i>Drosantheum hispidum</i>
Japanese spurge	<i>Pachysandra terminalis</i>
Large leaf iceplant	<i>Carpobrotus edulis</i>
Lilac beauty lily turf	
Lily-of-the-nile	<i>Agapanthus</i> spp.
Majestic lily turf	
Mondo grass	
Myoporum	<i>Myoporum laetum</i>
Pampas grass	<i>Cortaderia selloana</i>
Periwinkle	<i>Vinca</i> spp.
Ribbon grass	<i>Phalaris arundinacea picta</i>
Rock rose	<i>Cistus</i> spp.
Rupturewort	<i>Herniaria glabra</i>
Silvery sun proof lily turf	
Speedwell	<i>Veronica</i> spp.
St. Johnswort	
Stonecrop (Sedum)	<i>Sedum</i> spp.
Strawberry, beach	<i>Fragaria chiloensis</i>
Thrift	<i>Armeria maritima</i>
Trailing African daisy	<i>Osteospermum fruticosum</i>
Trailing iceplant	<i>Lampranthus spectabilis</i>
Trailing rosea iceplant	<i>Drosantheum floribundum</i>
Variegated carex	<i>Carex</i> spp.
Variegated liriope lily turf	
Verbena	<i>Verbena</i> spp.
White iceplant	<i>Delosperma alba</i>
White lily turf	<i>Liriope gigantea</i>
Woolly yarrow	<i>Achillea tomentosa</i>

## ORNAMENTAL SHRUBS

Scientific Name	Common Name
<i>Abelia grandiflora</i>	Edward goucher abelia Glossy abelia
<i>Acacia abyssinica</i>	Abyssinica acacia
<i>Acacia redolens</i>	Prostrate acacia
<i>Acacia stenophylla</i>	Shoestring acacia
<i>Acalypha wilkesiana</i>	Copper leaf
<i>Acer ginnala</i>	Amur maple
<i>Acer palmatum</i>	Coral bark Japanese maple Dwarf Japanese maple
<i>Agave americana</i>	Century plant
<i>Astilbe chinensis</i>	False spiraea
<i>Athyrium nipponicum</i>	Japanese painted fern
<i>Baccharis pilularis</i>	Coyotebush
<i>Berberis gladwynensis</i>	William penn barberry
<i>Berberis mentorensis</i>	Mentor barberry
<i>Berberis thunbergii</i>	Atropurea-redleaf Japanese barberry Aurea-golden Japanese barberry Crimson pygmy barberry
<i>Bougainvillea</i> spp.	Rose glow barberry Barbara karst California gold Pink pixie Scarlet o'hara Temple fire Texas dawn
<i>Buxus microphylla japonica</i>	Japanese boxwood
<i>Buxus microphylla Koreana</i>	Korean boxwood
<i>Buxus sempervirens</i>	Common boxwood
<i>Callistemon citrinus</i>	Lemon bottlebrush
<i>Callistemon viminalis</i>	Weeping bottlebrush
<i>Calluna vulgaris</i>	Spring torch scotch heather
<i>Camellia sasanqua</i>	Sasanqua camellia
<i>Camellia japonica</i>	Japanese camellia
<i>Cassia artemisioides</i>	Feathery cassia
<i>Ceanothus</i> spp.	Wild lilac
<i>Cephalotaxus drupacea</i>	Plum yew
<i>Cerastium tomentosum</i>	Snow-in-summer
<i>Chamaecyparis obtusa</i> spp.	Kosteri cypress Nana-dwarf hinoki cypress Torulosa cypress
<i>Chamaecyparis pisifera</i>	Filifera-thread cypress
<i>Chrysalidocarpus lutescens</i>	Areca palm
<i>Clethra alnifolia</i>	Summersweet
<i>Cleyera japonica</i>	Japanese cleyera
<i>Cornus alba</i>	Sibirica-siberian dogwood
<i>Cornus stolonifera</i>	Baileyi red osier dogwood Flaviramea-yellowtwig dogwood
<i>Cotinus coggygria</i>	Royal purple smoke tree
<i>Cotinus dammeri</i>	Coral beauty smoke tree Eichholz smoke tree
<i>Cotoneaster adpressus</i>	Praecox-early cotoneaster
<i>Cotoneaster apiculatus</i>	Cranberry cotoneaster
<i>Cotoneaster congestus</i>	Pyrenees cotoneaster
<i>Cotoneaster dammeri</i>	Bearberry cotoneaster
<i>Cotoneaster himalayan</i>	Himalayan cotoneaster
<i>Cotoneaster horizontalis</i>	Rock cotoneaster

<i>Cotoneaster zabelii</i>	Zabel cotoneaster
<i>Cycas revoluta</i>	Sago palm
<i>Cytisus praecox</i>	Hollandia-warminster broom
<i>Cytisus scoparius</i>	Lena-Scotch broom
<i>Daphne odora</i>	Fragrant daphne
<i>Deutzia</i> spp.	Deutzia
<i>Dodonea viscosa</i>	Hopseed bush
<i>Elaeagnus pungens</i>	Fruitland silver berry
<i>Erica cinerea</i>	Purple bell heather
<i>Erica x darleyensa</i>	Mediterranean pink heather
<i>Erica vagans</i>	Cornish heather
<i>Euonymus alatus</i>	Winged euonymus
<i>Euonymus fortunei</i>	Canadale gold euonymus
	Emerald 'n gold euonymus
	Sunspot euonymus
	Wintercreeper euonymus
<i>Euonymus japonica</i>	Silver king-euonymus
	Variegated evergreen euonymus
<i>Euonymus kiautschovica</i>	Spreading euonymus
<i>Feijoa sellowiana</i>	Pineapple guava
<i>Forsythia</i> spp.	Forsythia
<i>Gardenia jasminoides</i>	August beauty gardenia
	Gardenia
	Radican gardenia
<i>Gaultheria shallon</i>	Salal/lemon leaf
<i>Gelsemium sempervirens</i>	Carolina jessamine
<i>Genista pilosa</i>	Woadwaxen
<i>Hibiscus rosa-sinensis</i>	Ross estey-hibiscus
<i>Hibiscus syriacus</i>	Rose of sharon-heart
	Rose of sharon-red bird
	Rose of sharon-woodbridge
<i>Ilex</i> spp.	Holly
<i>Illicium annisatum</i>	Mystery gardenia
<i>Itea ilicifolia</i>	Henry garnet holly leaf sweetspire
<i>Ixora collinea</i>	Ixora
<i>Juniperus</i> spp.	Juniper
<i>Kalmia latifolia</i>	Mountain laurel
<i>Lagerstroemia indica</i>	Crepe myrtle
<i>Lantana</i> spp.	Lantana
<i>Leucothoe axil/aris</i>	Coast leucothoe
<i>Leucothoe fontainesiana</i>	Drooping leucothoe
<i>Ligustrum</i> spp.	Privet
<i>Livistona chinensis</i>	Chinese fountain palm
<i>Lonicera periclymenum</i>	Flowering woodbine
	Serotina woodbine
<i>Lonicera sempervirens</i>	Trumpet honeysuckle
<i>Mahonia bealei</i>	Leather leaf mahonia
<i>Mahonia repens</i>	Creeping mahonia
<i>Myrica cerifera</i>	Wax myrtle
<i>Nandina domestica</i>	Compacta-dwarf heavenly bamboo
	Harbour dwarf-heavenly bamboo
	Heavenly bamboo
	Nana compacta-heavenly bamboo
	Nana purpurea-heavenly bamboo
	Woods dwarf heavenly bamboo
<i>Nerium oleander</i>	Hardy red oleander
	Oleander
	Ruby lace oleander
<i>Osmanthus fortunei</i>	Fortunes osmanthus



<i>Philadelphus</i> spp.	Mockorange
<i>Phoenix roeloelenii</i>	Pigmy date palm
<i>Photinia fraseri</i>	Fraser's photinia
<i>Pieris japonica</i>	Japanese andromeda
	Mountain fire lily-of-the-valley
	Snowdrift lily-of-the-valley
	Templebells lily-of-the-valley
	Valley rose lily-of-the-valley
	Valley valentine lily-of-the-valley
<i>Pieris japonica x forestii</i>	Forest flame lily-of-the-valley
<i>Pinus mugo</i>	Mugo-mugho pine
<i>Pittosporum tobira</i>	Green pittosporum
	Japanese pittosporum
	Wheeler's dwarf pittosporum
<i>Plumbago ariculata</i>	Blue cape plumbago
<i>Plumbago capensis</i>	Plumbago
<i>Podocarpus macrophyllus</i>	Yewpine
<i>Polystichum polyblepharum</i>	Tassel fern
<i>Potentilla</i> spp.	Cinquefoil
<i>Prunus caroliniana</i>	Carolina laurel cherry
<i>Prunus glandulosa</i>	Dwarf pink flowering almond
<i>Pyracantha</i> spp.	Pyracantha
<i>Rhaphiolepis indica</i>	Charisma-monruce rhaphiolepis
	Enchantress-moness rhaphiolepis
	India hawthorn
	Springtime-monme rhaphiolepis
<i>Rhaphiolepis ovata</i>	Round leaf rhaphiolepis
<i>Rhododendron</i> spp.	Azalea/rhododendron
<i>Rhus lancea</i>	Africa sumac
<i>Rosa rugosa</i>	Ramanas rose
<i>Rosmarinus officinalis</i>	Rosemary
<i>Skimmia japonica</i>	Japanese skimmia
<i>Skimmia revesiana</i>	Reeve's skimmia
<i>Spiraea bumalda</i>	Anthony waterer spiraea
<i>Spiraea japonica</i>	Dolchia spiraea
	Japanese alpine spiraea
	Shirobana spiraea
<i>Spiraea vanhouttii</i>	Bridal wreath
<i>Syringa rothomagensis</i>	Chinese lilac
<i>Syringa vulgaris</i>	Common lilac
<i>Taxus cuspidata</i>	Upright Japanese yew
<i>Taxus media</i>	Anglojap yew
<i>Tecomaria capensis</i>	Cape honeysuckle
<i>Ternstroemia gymnanthera</i>	
<i>Thuja occidentalis</i>	American arborvitae
	Emerald arborvitae
	Globosa-globe arborvitae
	Little giant-dwarf arborvitae
	Nigra-dark American arborvitae
	Pyramidalis-pyramid arborvitae
	Rheingold arborvitae
	Techny arborvitae
<i>Thuja orientalis</i>	Aureus nana-dwarf golden arborvitae
	Minima glauca-dwarf arborvitae
<i>Veitchia merrilli</i>	Christmas palm
<i>Viburnum</i> spp.	Viburnum
<i>Weigela</i> spp.	Weigela
<i>Xylosma congestum</i>	Xylosma
<i>Yucca filamentosa</i>	Yucca

**TREES**

Scientific Name	Common Name
<i>Abies balsamea</i> <i>Abies concolor</i> <i>Abutilon hybridum</i>	Balsam fir White fir Albus-flowering maple Luteus-flowering maple Roseus-flowering maple Tangerine-flowering maple Vesuvius red-flowering maple
<i>Acer ginnala</i> <i>Acer platanoides</i> <i>Acer rubrum</i>	Flame maple Norway maple Red maple Red sunset maple
<i>Acer saccharinum</i> <i>Acer saccharum</i> <i>Areacastrum romanzoffianum</i>	Silver maple Sugar maple Queen palm
<i>Betula nigra</i> <i>Betula papyrifera</i> <i>Betula pendula</i> <i>Brachychiton populneus</i>	River birch Paper birch European white birch Bottle tree
<i>Bucida buceras</i> <i>Castanea mollissima</i> <i>Ceratonia siliqua</i> <i>Cercis canadensis</i> <i>Chamaecyparis obtusa</i>	Black olive Chinese chestnut Carob Redbud Filicoides-fernspray cypress Gracilis-slender hinoki cypress
<i>Chamaecyparis pisifera</i>  <i>Chamaedorea cataractarum</i> <i>Chamaedorea costaricana</i> <i>Chamaedorea elegans</i> <i>Cornus florida</i>	Swara false cypress Squarrosa-moss cypress Palm Palm Parlor palm Cloud nine dogwood Flowering dogwood
<i>Cornus kousa</i> <i>Crataegus viridis</i> <i>Cupaniopsis anacardioides</i> <i>Cupressus glabra</i> <i>Elaeagnus angustifolia</i> <i>Eucalyptus camaldulensis</i> <i>Eucalyptus cinerea</i>	Dogwood, Kousa Green hawthorn Carrot wood Arizona cypress Russian olive Redgum eucalyptus Mealy eucalyptus Silver dollar eucalyptus
<i>Eucalyptus microtheca</i> <i>Eucalyptus sideroxylon</i> <i>Ficus benjamina</i>	Coolibah tree Red ironbark eucalyptus Ficus Mini ficus White ash Shamel ash
<i>Fraxinus americana</i> <i>Fraxinus udhei</i> <i>Ginko biloba</i> <i>Gleditsia triacanthos</i>	Ginko-maidenhair tree Honey locust Shademaster honey locust
<i>Heteromeles arbutiflora</i> <i>Illicium floridanum</i> <i>Juniperus virginiana</i> <i>Larix kaempferi</i> <i>Liquidambar styraciflua</i> <i>Liriodendron tulipifera</i> <i>Magnolia spp.</i>	Toyon Florida anise-tree Eastern red cedar Japanese larch American sweet gum Tuliptree Magnolia

<p><i>Malus</i> spp.  <i>Morus alba</i>  <i>Musa aluminata</i>  <i>Nyssa sylvatica</i>  <i>Oxydendrum arboreum</i>  <i>Picea abies</i></p> <p><i>Picea glauca conica</i>  <i>Picea glauca</i>  <i>Picea pungens</i></p> <p><i>Pinus aristata</i>  <i>Pinus canariensis</i>  <i>Pinus contorta</i>  <i>Pinus eldarica</i>  <i>Pinus leucodermis</i>  <i>Pinus mugo</i>  <i>Pinus nigra</i>  <i>Pinus radiata</i>  <i>Pinus resinosa</i>  <i>Pinus taeda</i>  <i>Pinus strobus</i>  <i>Pinus sylvestris</i></p> <p><i>Pinus thunbergiana</i>  <i>Platanus acerifolia</i>  <i>Platanus occidentalis</i>  <i>Platanus racemosa</i>  <i>Podocarpus</i> spp.  <i>Populus deltoides</i>  <i>Prosopis chilensis</i>  <i>Prunus yedoensis</i>  <i>Pseudotsuga menziesii</i>  <i>Quercus coccinea</i>  <i>Quercus ilicifolia</i>  <i>Quercus palustris</i>  <i>Quercus phellos</i>  <i>Quercus rubra</i>  <i>Quercus virginiana</i>  <i>Robinia pseudoacacia</i>  <i>Salix</i> spp.  <i>Sequoia dendron giganteum</i>  <i>Swietenia mahogani</i>  <i>Tabebuia caraiba</i>  <i>Taxodium distichum</i>  <i>Tilia</i> spp.  <i>Tsuga canadensis</i>  <i>Ulmus parvifolia</i>  <i>Washingtonia robusta</i></p>	<p>Crabapple  White mulberry  Banana  Blackgum  Sourwood  Norway spruce  Pendula-weeping Norway spruce  Repens-spreading Norway spruce  Dwarf Alberta spruce  White spruce  Dwarf globe blue spruce  Glauca-Colorado blue spruce  Hoopsii-hoop's blue spruce  Koster-koster blue spruce  Bristlecone pine  Canary island pine  Shore pine, beach pine  Eldarica pine  Bosnian pine  Pumilio-shrubby Swiss mountain pine  Austrian black pine  Monterey pine  Red pine  Loblolly pine  White pine  Columnar Scotch pine  Scotch pine  Japanese black pine  London planetree  American sycamore  California sycamore  Podocarpus  Cottonwood  Chilean mesquite  Yoshino flowering cherry  Douglas fir  Scarlet oak  Bear oak  Pin oak  Willow oak  Red oak  Live oak  Black locust  Willow  Giant sequoia  Mahogany  Yellow tab  Bald cypress  Linden  Eastern hemlock  Chinese elm  Mexican fan palm</p>
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## ORNAMENTAL BULBS

This product may be applied for control of susceptible annual weeds in ornamental bulbs, e.g., bulbous Iris, Daffodil (Narcissus), Hyacinth, and Tulip. Apply this product to the soil surface 2 to 4 weeks after planting, but prior to the emergence of annual weeds. This product may also be applied following bulb emergence. For Fall planted bulbs, apply this product again in late Winter or early Spring to weed-free soil surfaces.

## NON-BEARING FRUIT AND NUT TREES AND NON-BEARING VINEYARDS\*

Almond	Fig	Orange
Apple	Filbert	Peach
Apricot	Gooseberry	Pear
Avocado	Grape, American	Pecan
Blackberry	Grape, European	Pistachio
Blueberry	Grapefruit	Plum
Boysenberry	Kiwi	Pomegranate
Cherry, sour	Lemon	Prune
Cherry, sweet	Loganberry	Raspberry
Citrus	Macadamia nut	Walnut, black
Currant	Nectarine	Walnut, English
Dewberry	Olive	
Elderberry		
* Non-bearing fruit and nut trees and non-bearing vineyards are defined as plants that will not bear fruit for at least one year after treatment.		

## CHRISTMAS TREE PLANTATIONS

Apply this product to established plantings of field grown Christmas tree species listed on this label. Apply only to established plantings. Established plants are defined as those that have been transplanted into their final growing location for a sufficient period of time to allow the soil to be firmly settled around the roots from packing and rainfall or irrigation. **Use Restriction:** Do not apply to seedbeds or seedling transplant beds.

## NON-CROPLAND AREAS

This product may be applied as a pre-emergence herbicide to control certain annual grasses and broadleaf weeds on industrial sites, utility substations, highway guard rails, sign posts and delineators. Apply this product any time prior to germination of target weeds. Apply to areas free of established weeds or control existing weeds with post-emergence herbicides.

## POT NURSERY PRODUCTION OF TREES AND SHRUBS

This product may be used to control excess rooting between the socket pot and the growing pot. This product will reduce the rooting out from the growing container.

Apply this product in the socket pot before the growing pot is inserted at the rate corresponding to the container size below. Use the higher rate in the given rate range for aggressive rooting species.

Pot Size (Nursery Gals.)	This Product Per Pot	
	Grams	Tsp.
5	1 to 1.5	1/2
7	1 to 2	3/4
10	1.5 to 3	1
15	1.6 to 3.2	1 to 1.5
20	2.4 to 4.8	1 to 2
25	3 to 5.8	2 to 3
30	3.3 to 6.5	3 to 4

## UNDER PAVED SURFACES

### Site Preparation

Use only this product where the soil to be treated has been prepared according to good construction practices. If rhizomes, stolon, tubers or other vegetative plant parts are present in the site, remove them by scalping with grader blade to a depth sufficient to ensure their complete removal.

### Application

Applications may be made after the final grade is established or after the base rock has been added. **Use Restriction:** Do not move soil after application of this product and do not apply this product to soil where asphalt may be laid directly on top of the soil.

Pave as soon as possible after application of this product.

Apply this product to ensure thorough coverage of the base rock layer. Apply with any granular applicator that will apply uniformly.

Apply the following amount of this product:

Amount of This Product (Lbs.)	
Per Acre	Per 1000 Sq. Ft.
120 to 160	2.75 to 3.65

## STORAGE AND DISPOSAL

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

**STORAGE:** Store in original container. In case of leak or spill, contain material and dispose as waste.

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

### CONTAINER HANDLING:

**Nonrefillable Container (flexible-bag-all weights):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. 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-fifty lbs. or less):** 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 mix tank. Fill the container one-fourth full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or 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-greater than fifty lbs.):** 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 mix tank. Fill the container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or 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:** 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.

## **WARRANTY—CONDITIONS OF SALE**

OUR DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

Manufactured By:



**Drexel Chemical Company**

P.O. BOX 13327, MEMPHIS, TN 38113-0327

**SINCE 1972**

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