TRIFLURALIN 1.0G

A Selective Herbicide For The Preemergence Control Of Annual Grasses And Broadleaf Weeds.

CAUTION

Refer To Inside Of Label Booklet For Additional Precautionary

Statements and Directions For Use

ACTIVE INGREDIENT:

Trifluralin* (a,a,a-trifluoro-2,6-dinitro-N, N-dipropyl-p-toluidine)	10.0%
INERT INGREDIENTS	90 <u>.</u> 0%
Total	100.0%

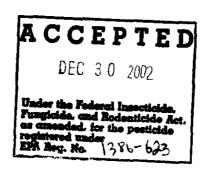
^{*}Granular formulation of Trifluralin containing 10 percent active ingredient.

Net Contents: 50 Pounds

EPA Reg. No. 1386-623 EPA Est. No. 1386-OH-1

UNIVERSAL COOPERATIVES, INC.

EAGAN, MN 55121



PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed or absorbed through the skin or inhaled. Causes moderate eye it itation. Avoid contact with eyes, skin or clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact may cause allergic maction in some individuals.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and Other Handlers Must Wear:

- Long-sleeved shirt and long pants
- Chemical Resistant Gloves Category A
- · Socks plus shoes

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

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

USER SAFETY RECOMMENDATIONS

Users should:

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

Same of the same o	FIRST AID
If In Eyes:	Hold eye open and rinse slowly and gently with wat for 15 - 20 minutes.
	• Remove contact lenses, if present, after the first 5 countries. Then continue rinsing eye.
	Call a poison control center or doctor for treatment povice.
If On Skin	Take off contaminated clothing.
Or Clothing:	Rinse skin immediately with plenty of water for 1 200 minutes.
*	Call a poison control center or doctor for treatment and ice.
Have the product containe	r or label with you when calling a poison control ceme or doctor, or going for treatment. aformation call 1-800-228-5635, extension 138.
For Medical Emergency in	aformation call 1-800-228-5635, extension 138.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oysters. Do not apply in a manner which will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Drift or runoff from treatment areas may be hazardous to aquatic organisms in neighboring aquatic sites. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide 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 protection equipment (PPE) and restricted-entry interval. 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 restricted entry interval (REI) of 12 hours.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- · Chemical Resistant Gloves Category A
- Socks plus shoes

Trifluratin 10G is a preemergence herbicide which is incorporated into the soil to provide long-lasting control of many annual grasses and broadleaf weeds. Trifluratin 10G controls weeds as they germinate. Trifluratin 10G will not control established weeds.

WEEDS AND GRASSES CONTROLLED BY TRIFLURALIN 10G GRASSES

Annual bluegrass (Poa annua); Barnyardgrass (Watergrass), (Echinochloa sp.); Brachlaria (Signalgrass), (Brachiaria sp.); Bromegrass (Cheatgrass, Downy brome), (Bromus tectorum); Cheat (Chess), (Bromus secatinus); Crabgrass (Large crabgrass, Smooth crabgrass), (Digitaria sp.); Foxtail (Bottlegrass, Bristlegrass, Giant foxtail, Green foxtail, Foxtail millet, Pigeongrass, Robust foxtail, Yellow foxtail), (Setaria sp.); Goosegrass (Silver crabgrass, Silvergrass, Wiregrass, Yardgrass), (Eleusine Indica); Johnsongrass (Irom seed) (Sorghum halepense); Junglerice (Echinochloa colonum); Sandbur (Burgrass), (Cenchrus incertus); Sprangletop (Leptochloa filiformis); Stinkgrass (Lovegrass), (Eragrostis citianensis); Wild cane (Shattercane), (Sorghum blcolor); Wild oat' (Avena fatua); Woolly cupgrass (Eriochloa villosa).

'Trifluratin 10G applied as a preplant incorporated (PPI) treatment will provide partial control of wild oats. This claim is for all PPI uses except fall applications for spring seeded cereals.

BROADLEAF WEEDS

Carpetweed (Mollugo verticillata); Chickweed (Stellaria media); Florida pusley (Florida purstane, Mexican clover, Pusley), (Richardia scabra); Gooseloot (Chenopodium hybridum); Henbit (fall application only), (Lamium amplexicaule); Knotweed (Polygonum aviculare); Lambsquarters (Chenopodium album); Pigweed (Carelessweed, Prostrate pigweed, Redroot pigweed, Rough pigweed, Spiny pigweed), (Amaranthus sp.); Puncturevine (Western U.S. only), (Caltrop, Goathead), (Tribulus terrestris); Purstane (Portulaca oleracea); Stinging nettle (Nettle), (Urtica diolca).

SOIL PREPARATION

Crop Residues or Existing Weeds: Apply Trifluralin 10G to soil that has a manageable trash level, been fallowed, pre-titled or to soil that has standing stubble. A manageable level of such ground cover would allow the Trifluralin 10G to be uniformly incorporated into the top 2 to 3 inches of the final seedbed.

Roughness: The soil surface should be smooth enough so that application and incorporation equipment can be operated efficiently and at speeds which ensure a uniform application and incorporation of Triffuralin 10G.

General Soll Conditions: To assure uniform incorporation of Trilluratin 10G, soil moisture conditions should be such that large clods can be broken up during the incorporation process.

SOIL TEXTURE GUIDE

The amount of Trilluratin 10G applied will vary with the soil texture and organic matter. A fine textured soil will require more Trilluratin 10G per acre than a coarse soil. Choose the proper rate for each application based on the following soil texture group and specific crop recommendations. Do not exceed recommended rates.

Soii Texture	Soii Classification
Coarse Soils: (Light)	Sand, loamy sand, sandy loam
Medium Soits:	Loam, silly clay loam*, silt loam, silt, sandy clay loam*
Fine Solls: (Heavy)	Clay, clay loam, silty clay loam*, silty clay, sandy clay, sandy clay loam*

^{*}Sitty clay loam and sandy clay loam soils are transitional soils and may be classified as either medium or line textured soils. If sitty clay loam or sandy clay loam soils are predominately sand or silt, they are usually classified as medium textured soils. If they are predominately clay, they are usually classified as line textured soils.

APPLICATION DIRECTIONS

Apply Tillfuration 10G 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 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.

INCORPORATION DIRECTIONS

Incorporation Equipment-General Directions

Use incorporation equipment that mixes Trilluratin 10G into the top 2 to 3 Inches of the final seedbed, or erratic weed control and/or crop injury may result. Incorporation equipment such as a disc will mix Triffuratin 10G 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 Triffuratin 10G within the top 2 inches of the final seedbed.

Incorporation Before Planting

Trilluratin 10G must be incorporated one time within 24 hours after application. The second incorporation must be delayed at least five (5) days after the first, completed prior to planting, and should be run in a different direction from the first. Incorporate the Trilluratin 10G uniformly into the top 2 to 3 inches of the final seedbed.

Incorporation After Planting

Check specific crop for incorporation directions after planting.

Incompration in Bedded Culture

For effective weed control, Trifluralin 10G needs to be incorporated into the top 2 to 3 inches of the final seedbed.

Application prior to bedding; Apply Trifluratin 10G and incorporate it one time with recommended equipment. The bedding operation serves as the second incorporation. Do not expose untreated soil during post-bedding operations.*

Application after bedding: Knock off beds to planting height before applying Trifluralin 10G. Apply Trifluralin 10G and incorporate it with recommended equipment that will conform to the bed shape. Do not 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.

Recommended Equipment

Any recommended incorporation tool may be used alone or in combination with any other recommended tool. Two incorporation passes are required unless specifically stated. The second incorporation should 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 should 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 recommended 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 4.5 inches deep at 4-6 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 should 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 spiketooth or flextine 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 Trifluratin 10G 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, P.T.O. driven equipment should that be operated at a speed greater than 4 mph.

Other equipment, Including the flexible tine-tooth harrow, (Flextine, Melroe), is also recommended but only for the special programs for which It is specified in this label.

CULTIVATION AFTER PLANTING

Soil treated with Trifluralin 10G may be shallow cultivated without reducing the weed control activity of Trifluralin 10G. Do not cultivate deeper than the treated soil since this may bring untreated soil to the surface, and poor weed coulto' may result.

APPLICATION INSTRUCTIONS

These recommendations are given as the broadcast rates of Triffuration 10G per acre. Apply any time after January 1 when the soil can be worked and is suitable for good incorporation—see specific crop for recommendations. Where a rate range is shown, use the lower rate for coarser soils or soils with lower organic matter. Trilluratin 10G should not be used on soils containing more than 10% organic matter or on muck soils. +10900 1110 OK

ALFALFA-ESTABLISHED

In areas receiving less than 20° average annual rainfall per year, apply Trilluratin 10G to established atfalfa stands at a broadcast rate of 7 1/2 pounds per acre on coarse solls and 10 pounds on medium and fine soils. Use incorporation equipment that will ensure thorough soil mixing with minimum damage to the established allalfa. time = 316, motion

Do not apply to alfalfa forage within 21 days of harvest.

Do not apply to alfalfa hay within 20 days of harvest.

FOR THE FOLLOWING CROP GROUPING, USE THE RATE TABLE BELOW.
CASTOR BEAN
COLE CROPS—TRANSPLANT

(Broccoff, Brussels Sprous, Cabbage and Caufillower). See next section for direct seeded.

Apply and incorporate prior to transplanting only.

OKRA
PEPPER—TRANSPLANT
Apply and incorporate prior to transplanting only.

SOUTHERN PEA—(Before planting only.)

Apply and incorporate Trifluralin 10G before planting, at planting or immediately after planting, unless otherwise indicated.

Broadcast Rates Per Acre

	Trifluratin 10G	
	Areas receiving Areas receiving less than 20° greater than 2	
Soil Texture	average annual rainfall*	average annual rainfall*
	(pounds)	(pounds)
Coarse	5	5
Medium	6 1/4-7 1/2	7 1/2
Fine	7 1/2	10

^{*}Use 7 1/2 pounds per acre on coarse and medium textured soils and 10 pounds on line soils with 2-5% organic matter; use 10 pounds on all soils with 5-10% organic matter.

COLE CROPS—DIRECT SEEDED

(Broccoli, Brussels Sprout, Cabbage and Caulillower). See above section for transplant.

For direct seeded cole crops, apply and Incorporate Trifluralin 10G before planting at a broadcast rate of 5 pounds per acre on coarse and medium soils and 7 1/2 pounds on fine soils and soils with 2-5% organic matter. Direct-seeded cole crops have exhibited marginal tolerance to recommended rates of Trifluratin 10G. Stunting or reduced stands may occur.

CUCURBITS—POSTPLANT EMERGED

(Cantalogne, Cucumber and Watermelon)

Western United States Including Texas:

Apply Trifluralin 10G as a broadcast granule to the soil between the rows and beneath plants which are in the 3 to 4 true leaf stage.

Broadcast	Rates	Per	Acre
Ci Caccast	110162		***

	Trifluratin 10G	
Soll Texture	Areas receiving less than 20" average annual rainfall"	Areas receiving greater than 20° average annual rainfail*
	(pounds)	(sbnuoq)
Coarse	5	5
Medium	6 1/4-7 1/2	7 1/2
Fine	7 1/2	10

^{*}Use 7 1/2 pounds per acre on coarse and medium textured soils and 10 pounds on line soils with 2-5% organic matter, use 10 pounds on all soils with 5-10% organic matter.

Set incorporation equipment to throw treated soil around the plants during incorporation.

FRUIT AND NUT CROPS AND VINEYARDS

For areas receiving less than 20" average annual rainfall.

For new plantings of atmond, apricot, citrus, nectarine, peach, pecan and walnut trees, apply and incorporate Trifluratin 10G before planting at a broadcast rate of 5 pounds per acre on coarse soils, 6.1/4 to 7.1/2 pounds on medium soils; 7.1/2 pounds on fine soils; 7.1/2 to 10 pounds on soils with 2-5% organic matter; and 10 pounds on soils with 5-10% organic matter.

For new plantings of vineyards, apply and incorporate Trilluralin 10G before planting at a broadcast rate of 5 to 7 1/2 pounds per acre on coarse soils; 7 1/2 to 15 pounds on medium soils; and 15 to 20 pounds on fine soils or solls with 2 to 10% organic matter. Do not use more than 10 pounds per acre on heat-treated grape rootings.

For postplant applications on bearing or non-bearing, established plantings of vineyards and almond, apricot, grapefruit, temon, nectarine, orange, peach, pecan, plum, prune, tangelo, tangerine and watnut trees, apply Trifluralin 10G at a broadcast rate of 10

to 20 pounds per acre for all soil textures. Oo not apply to vineyards within 60 days of twidest.

In established plantings, apply Trifluratin 10G to the soil and use incorporation methods not injurious to the trees or vines.

COTTON-TRIFLURALIN 10G ALONE

Triffuration 10G can be applied and incorporated before or at planting, immediately after planting, or at layby.

COTTON—Preemargenca:

Broadcast Rates Per Acre

	Trifluratin 10G	
Soil Texture	Areas receiving less than 20" average annual rainfall*	Areas receiving greater than 20" average annual rainfall"
	(pounds)	(pounds)
Coarse	5	5
Medium	6 1/4-7 1/2	`7 1 <i>1</i> 2
Fine	7 1 <i>1</i> 2	10

*Use 7 1/2 pounds per acre on coarse and medium textured soils and 10 pounds on line soils with 2-5% organic matter, use 10 pounds on all soils with 5-10% organic matter.

- · Do not apply to cotton within 90 days of harvest.
- · Do not apply more than 2 pounds active ingredient per acre per season.

COTTON-Posiplant:

When incorporating Trilluratin 10G after planting (postplant), be careful not to disturb the seed.

COTTON-Layby.

Apply and incorporate Triffuration 10G any time up to layby, but not less than 90 days before harvest. Direct the layby applications onto the soil between the rows and beneath emerged cotton plants. Use the same rates as for a preemergence application.

COTTON-Fall Application:

Apply and incorporate Trifluralin 10G any time between October 15 and December 31. The 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, be careful not to turn up untreated soil during spring bedding operations. Destroy established weeds during seedbed preparation. If weeds become established in furrows due to uncovering of untreated soil during bedding, destroy these weeds before planting. In the fall, do not apply Trifluralin 10G to soils which are wet or subject to prolonged periods of flooding.

Broadcast Rates per Acre—Fall Application Only:

In Alabama, Arkansas, northern Florida, Georgia, Louisiana, Mississippi, southeastern Missouri bootheel, North Carolina, New Mexico, Oklahoma, South Carolina, Tennessee and Texas, apply and incorporate Trifluralin 10G at a broadcast rate of 10 pounds per acre on coarse and medium soils and 12 1/2 pounds on fine soils.

In Arizona, California and Nevada, apply and incorporate Trilluralin 10G at a broadcast rate of 7 1/2 pounds per acre on coarse soils; 10 pounds on medium soils; and 12 1/2 pounds on fine soils.

For colton grown in other states, apply and incorporate Trifluralin 10G at a broadcast rate of 5 pounds per acre on coarse soils; 7 1/2 pounds on medium soils; 10 pounds on fine soils; 7 1/2 pounds on coarse soils with 2-5% organic matter, and 10 to 12 1/2 pounds on soils with 5-10% organic matter.

DRY BEAN-TRIFLURALIN 10G ALONE

Apply and incorporate Trifluratin 10G before planting using the following rates:

Broadcast Dates Per Acre

Dioaucast Hates Fet Acte		
	Trifluralin 10G	
	Areas receiving Areas receiving less than 20° greater than 20°	
	average annual average annua	
Soil Texture	caintall*	rainfall*
	(pounds)	(pounds)
Coarse	5	5
Medium	6 1/4-7 1/2	7 1/2
Fine	7 1/2	10

Use 7 1/2 pounds per acre on coarse and medium textured soils and 10 pounds on line soils with 2-5% organic matter, use 10 pounds on all soils with 5-10% organic matter.

DRY BEAN—Fall Application

Apply and incorporate Trilluratin 10G any time between October 15 and December 31 at a broadcast rate of 5 pounds per acre on coarse soils; 6 1/4 to 7 1/2 pounds on medium soils; and 7 1/2 pounds on line soils. Destroy established weeds during seedbed preparation.

FLAX-FALL APPLICATION

Apply and incorporate Trifluralin 10G in the fall from September 1 to December 31.

Broadcast Rates Per Acre

Tritturalin 10G
(pounds)
5
7 1/2
10

Special Instructions for Flax

- 1. Incorporation operations or any other tillages performed in the spring prior to seeding should be relatively shallow so as to maintain a firm seedbed, and the seedbed should be packed just prior to seeding.
- 2. Seeding should be done with a press drill or hoe drill. Seed into a moist seedbed no more than 1 1/2 Inches deep.
- 3. Flax should not be seeded until the seedbed has warmed up.

BEANS—(Lima Bean and Snap Bean):

Apply and incorporate Trilluratin 10G before planting at a broadcast rate of 5 pounds per acre on coarse and medium soils and 7 1/2 pounds on fine soils.

MUSTARD—Grown for seed or processing for food in Minnesota, Montana and North Dakota:

Apply and incorporate Trifluralin 10G before planting at a broadcast rate of 5 pounds per acre on coarse soils and 7 1/2 pounds on medium and fine soils.

PEANUT—(Spanish Peanut in Texas and Oklahoma):

Apply and incorporate Trifluralin 10G before planting, at planting or immediately after planting at a broadcast rate of 5 pounds per acre on coarse soils. When incorporating after planting, take care not to disturb the seed.

Apply and incorporate Trifluratin 10G in the spring before planting or in the fall after September 1,

Broadcast Rates Per Acre

Divaviasi nales	TELACIO
Soil Texture	Trifluration 10G
	(pounds)
Coarse	5
Medium	7 1/2
Fine	10

SAFFLOWER

Follow recommended soil preparation, application and incorporation procedures for Trifluralin 10G.

Apply and incorporate Trifluralin 10G in the spring before planting or in the fall betwen October 15 and December 31.

Broadcast Rates Per Acre

i i	Triffuratin 10G	
Soil Texture	Areas receiving less than 20° average annual rainfall°	Areas receiving greater than 20° average annual rainfall°
	(pounds)	(pounds)
Coarse	5	5
Medium	6 1/4-7 1/2	7 1/2
Fine	7 1/2	10

^{*}Use 7 1/2 pounds per acre on coarse and medium textured soils and 10 pounds on fine soils with 2-5% organic matter; use 10 to 12 1/2 pounds on all soils with 5-10% organic matter.

SAFFLOWER-Fall Application-(Arizona, California, Idaho, Montana, Nevada, Oregon, Utah, Washington and Wyoming):

Apply and incorporate Trifluratin 10G 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 furnows. 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 furnows due to uncovering of untreated soil during listing, destroy these weeds before planting.

Apply and incorporate Trifluratin 10G at a broadcast rate of 7 1/2 pounds per acre on coacse soils; 10 pounds on medium soils; and 12 1/2 pounds on fine soils.

Do not apply Triffuralin 10G in the fall to soils which are wet or are subject to prolonged periods of flooding.

SOYBEAN-TRIFLURALIN 10G ALONE

SOYBEAN-Preomergence:

Follow recommended soil preparation, application, and incorporation procedures for Trifluralin 10G.

Broadcast Rates Per Acre

Soil Texture	Trifluratin 10G*
	(pounds)
Coarse	5
Medium	7 1/2
Fine	10

^{*}Use 7 1/2 pounds per acre on coarse and medium textured soils and 10 pounds on line soils with 2-5% organic matter; use 10 to 12 1/2 pounds on all soils with 5-10% organic matter.

SOYBEAN—Fall Application:

Apply and incorporate Trilluralin 10G 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. Do not apply Trifluralin 10G in the fall 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, northern Florida, Georgia, Louisiana, Mississippi, southeastern Missouri bootheel. North Carolina, Oklahoma, South Carolina, Tennessee and Texas, apply and incorporate Trifluratin 10G at a broadcast rate of 10 pounds per acre on coarse and medium soils and 12 1/2 pounds on fine soils.

For soybeans grown in states other than those listed above, apply and incorporate Trifluralin 10G at a broadcast rate of 5 pounds per acre on coarse soits; 7 1/2 pounds on medium soils; 10 pounds on fine soils; 7 1/2 pounds on coarse soits with 2-5% organic matter; and 10-12 1/2 pounds on soits with 5-10% organic matter.

SUGAR BEET

Broadcast Triffuralin 10G overtop when plants are between 2 and 6 inches tall at a rate of 5 pounds per acre on coarse soils and 6 1/4 to 7 1/2 pounds on medium and fine soils. Use the higher rate for medium and fine soils in areas receiving more than 20° average annual rainfall. Set incorporation machinery to throw treated soil toward the plants in the row. Be careful that incorporation machinery does not damage the sugar beet taproot.

Precaution: Exposed beet roots should be covered with soil before a Trifluralin 10G application to reduce the possibility of girdling.

SUNFLOWER-TRIFLURALIN 10G ALONE

Apply and incorporate Triffuralin 10G in the spring or in the fall between October 15 and December 31. Follow recommended soll preparation, application and incorporation procedures for Trifluralin 10G.

Broadcast Rates Per Acre

	Trillura	alin 10G
	Areas receiving less than 20"	Areas receiving greater than 20"
]	average annual	average annual
Soil Texture	rainfall*	rainfall*
i i	(pounds)	(pounds)
Coarse	5	5
Medium	6 1/4-7 1/2	7 1/2
Fine	7_1/2	10

^{*}Use 7 1/2 to 10 pounds per acre on coarse and medium textured soils with 2-5% organic matter and 10 pounds on all soils with 5-10% organic matter.

TOMATO

For direct seeded tomato, apply Trifluralin 10G at blocking or thinning to the soil between rows and beneath the plants, and incorporate. For transplant tomato, apply and incorporate Trifluralin 10G before transplanting. Do not apply Trifluralin 10G after transplanting.

Broadcast Aztes Per Acre

	Trifluration 10G		
	Areas receiving less than 20° average annual	Areas receiving greater than 20° average annual	
Soil Textura	rainfall*	rainfall*	
	(pounds)	(pounds)	
Coarse	5	5	
Medium	6 1/4-7 1/2	7 1/2	
Fine	7 1/2	10	

^{*}Use 7 1/2 pounds per acre on coarse and medium textured soils and 10 pounds on line soils with 2-5% organic matter; use 10 pounds on all soils with 5-10% organic matter.

WHEAT (SPRING), DURUM AND BARLEY-SUMMER FALLOW

Triffuralin 10G may be applied to coarse, medium and fine textured soils for control of labeled weeds in the summer fallow period and for pigeongrass (foxteil) control in wheat, durum, and barley seeded the following spring.

Trifluralin 10G may be applied to ground that has a manageable trash level, been fallow, pre-tilled, or to soil left with a stubble cover. The first incorporation is required within 24 hours after application. The second incorporation and subsequent tillage may be down whenever necessary 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 Rates Per Acre

Application Date	Trifluratin 10G
	(pounds)
April 15 to May 31	10
June 1 to June 30	8 3/4
July 1 to July 31	7 1/2
August 1 to August 31	6 1/4

Incorporation Directions: Incorporate Trilluratin 10G one (1) time within twenty-four (24) hours after application. Care should be taken to ensure that the second incorporation and subsequent tillages are more shallow than the first. Incorporate and till the Trilluratin 10G treated ground with the following equipment:

- 1. Chisel plow: Operate at 4-5 inches deep at 4-6 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 should not be used.
- 2. Tandem disc: Operate at 34 inches deep at 46 mph.
- 3. Field cultivator. Operate at 3-4 inches deep at 5 mph or more. A field cultivator is defined as having 3 to 4 rows of sweeps with "c" or "s" shaped shanks, spaced 7 inches or less and staggered so that no soil is left unturned.

Seeding Directions: Wheat, durum, or barley should be seeded approximately two (2) inches deep.

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

WHEAT (SPRING), DURUM AND BARLEY-FALL APPLICATION

For the control of foxtail (pigeongrass), apply Trifluralin 10G at a broadcast rate of 5 pounds per acre on coarse and medium soits and 7-1/2 pounds on fine soits.

Incorporation Directions: Any of the following tools are recommended for fall incorporation. The disc or field cultivator may be used for the spring incorporation pass. Care should be taken to operate the tool at a more shallow depth than the fall incorporation.

- Chisel plow: May be used for first pass only, Operate at 4-5 inches deep at 4-6 mph. A chisel plow is defined as having 3 (cviz of 14 to 18 inch sweeps on no greater than 12 inch center. Stagger sweeps so that no soil is left unturned. Chiser points should not be used.
- 2. Tandem disc: Operate at 3-4 inches deep at 4-6 mph.
- 3. Field cultivator: Operate at 3-4 inches deep at 5 mph or more. A field cultivator is defined as having 3 to 4 rows of sweeps with "c" or "s" shaped shanks, spaced 7 inches or less and staggered so that no soil is left unturned.

Seeding Directions: Wheat, durum, or barley should be seeded approximately two (2) Inches deep.

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

WHEAT (WINTER)-(Idaho, Montana, Oregon and Washington):

Tritturalin 10G may be applied for preplant preemergence control of cheatgrass and otherannual grasses and broadleaf weeds controlled by Trifturalin 16G.

Apply Trifluratin 10G any time up to three (3) weeks prior to planting. Broadcast Trifluratin 10G at a rate of 7 1/2 pounds per acre, on coarse and medium soils and 10 pounds on fine soils.

Incorporation Directions: Incorporate Trilluralin 10G into the soil with a flexible tine-tooth harrow, (Flextine or Metroe), set to cut one (1) to two (2) inches deep and operate at 3 to 6 mph. Incorporate one (1) time within 24 hours after application, followed by a second incorporation at least five (5) days after the first pass in a different direction prior to planting. Do not till the soil with a disc after the Trifluralin 10G has been incorporated with a flexible tine harrow.

Seeding Directions: Use only a deep furrow or semi-deep furrow drill that will place the seed below the zone of soil into which Trifluralin 10G has been incorporated.

Precaution: Do not plant wheat directly into the zone of soil treated with Trifluralin 10G as injury to the crop (delay in emergence or stand reduction) may occur. Delayed emergence or slight stand reductions do not normally affect yield.

WHEAT (WINTER)—Fallow Soil Application (Idaho, Montana, Oregon and Washington):

Trifluratin 10G applied and shallowly incorporated into fallow soil up to four (4) months ahead of planting will control cheatgrass and certain annual grasses and broadleaf weeds.

Broadcast rates are 7 1/2 pounds per acre on coarse and medium soils and 10 pounds on fine soils. Apply Trifluralin 10G any time from May to September prior to the fall planting of winter wheat.

Incorporation Directions: Incorporate Fritturalin 10G with a flexible tine-tooth harrow, (Flextine or Melroe), set to cut one (1) to two (2) inches deep and operated at three (3) to six (6) mph. For thorough incorporation, two (2) passes of the equipment in different directions over the field are necessary. Incorporate one (1) time within 24 hours after application followed by a second incorporation at least five (5) days after the first prior to seeding. Do not till the soil with a disc after Trilluralin 10G has been incorporated with a flexible tine harrow.

Seeding Directions: Use only a deep furrow or semi-deep furrow drill that will place the seed below the zone of soil into which Trilluralin 10G has been incorporated.

Precaution: Do not plant wheat directly into the zone of soil treated with Trifluratin 10G as injury to the crop (detay in emergence or stand reduction) may occur. Delayed emergence or slight stand reductions do not normally affect yield.

FALL APPLICATION

General: (Areas receiving more than 20° average annual raintall). See specific crop for recommendations. For all crops for which there are no specific fall application instructions and for which Trifluralin 10G is recommended as a preemergence application, use the rates listed for spring applications. Do not apply Trifluralin 10G in the fall for sugar beets, potatoes and direct-seeded tomatoes.

In most states: Apply and incorporate Trifluratin 10G any time between October 15 and December 31.

In California, Minnesota, Montana, North and South Dakota: Apply and incorporate Trifluratin 10G any time between September 1 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 beds into furrows. Where soil is left over winter, be careful not to turn up untreated soil during spring bedding operations. Destroy established weeds during seedbed preparation.

If weeds become established in lurrows due to uncovering of untreated soil during bedding, destroy these weeds before planning Do not apply Trifluratin 10G in the fall to soils which are wet, are subject to prolonged periods of flooding, or where rice was grown the previous year.

Applicator Settings For Trifluralin 106

Gandy	Alr-Sc	orego.
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Application Rate (lbs/A)	Deflector Spacing	4MPH	SMPH Gauge	EMPH Setting	7MPH
5	24"	13	15	17.	18
	30"	15	17	19	21
7%	24"	16.8	19	21	23
	30"	19	21.5	23.5	25.5
10	24"	20	22	24	26
	30"	22	25	27	29

Gandy Alr-Spred® SC (61 Series and models marked SC)

Application Rate (45s/A)	Deflector Spacing	Gauge Setting for units with Gain of 2
5	24 ⁻ 30"	25 28
74,	24 ⁻ 30 ⁻	31 35
10	24~ 30"	36 40

Bandy Box

Application	4MPH	5MPH	6МРН	7 MPH
(A\2d) els?		Gauge	Setting	
5	6	7	6	8
7%	8	9	10	10
10	9	10	11	12

Valmar Air Flo™

Application Rate (lbs/A)	Rairo	Range	Goar
5	Low	В	2
7 77,	Low	8	4
10	Medium	8	2

Bellne Linear Control

Application	4МРН	SMPH	6МРН	7 MPH
flate (#US/A)		Meser :	Saring"	
5	20	25	30	35
7%	30	31 <i>.</i> 5	45	\$2.S
10	40	50	60	70

*Settings are for:

- 1. Linear Box one outlet for 7" spacing.
- 2. Air Spreader one outlet for 24" spacing.

These are guidelines to be used only as starting points for equipment calibration. Consult the manufacturer's guide for precise calibration. Trifluralin 10G may be applied with any properly calibrated granular applicator that uniformly applies the recommended rates per acre.

SPECIAL PRECAUTIONS

Applied according to directions and under normal growing conditions, Trifluralin 10G will not harm the treated crop. Over application may result in crop injury or a soil residue. Uneven application or improper soil incorporation of Trifluralin 10G can result in extratic weed control or crop injury. Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration or

diought may weaker crop seedlings and increase the possibility of damage from Triflurations. Under these conditions, detayed crop development or reduced yields may result.

In Arizona, Colorado, California, Idaho, Montana, Nevada, New Mexico, Oregon, Ulah, Washington and Wyoming, sugar beets, red beets or spinach should not be planted for 12 months after a spring application or for 14 months after a fall application of Triffuratin 10G. Plow the land to a depth of 12 inches prior to planting sugar beets to prevent the possibility of crop injury. Sorghum (milo), proso millet, corn or oats should not be planted for 14 months after a spring application or for 16 months after a tall application of Triffuratin 10G to avoid crop injury. If land has not been irrigated, do not plant any of these crops for 18 months after a spring application or 20 months after a fall application of Triffuratin 10G.

In those portions of Kansas, Nebraska, North Dakota, Oklahoma, South Dakota and Texas where at least 20 inches of irrigation and/or rainfall (total) was used to produce the crop, sorghum or oats should not be planted for 12 months after an application of Trifluralin 10G.

If less than 20 inches of total water was used to produce the crop, do not plant sorghum, proso millet, or oats for 18 months after an application of Trifluralin 10G. Cool, wet weather conditions during the early stage of growth may increase the possibility of injury to sorghum.

In all other areas receiving greater than 20" rainfall per year:

Moldboard plow before planting sugar beets where a spring application of Trifluralin 10G was made the previous season.

Vegetable Growing Areas:

Vegetable crops other than those tisted on this label should not be planted within 5 months following the application of Trifluralin 10G.

STORAGE AND DISPOSAL

Do not contaminate water, food, feed, other pesticides, fertilizer or seeds.

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

Container Disposal: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by State and local authorities. If burned, stay out of smoke.

WARRANTY AND LIMITATION OF DAMAGES

Seller warrants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the tabel when used in accordance with directions under normal conditions of use and Buyer assumes the risk of any use contrary to such directions. Seller makes no other express or implied warranty, including any other express or implied warranty of Fitness or of Merchantability, and no agent of Seller is authorized to do so except in writing with a specific reference to this warranty. In no event shall Seller's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.